



# Health Sciences

11

DST/NRF  
SARChI  
Chairs

## New AWARDS

**Prof Tania Douglas**, in biomedical engineering and innovation, and **Prof Nonhlanhla Khumalo**, in dermatology and toxicology

Accredited  
journal units

554

Up  
5%  
from previous  
year

R764m

Income raised  
by contracts

Up  
12%  
from previous  
year

NRF ratings

135

11

A rated

**NEW NRF A RATINGS** since June 2015

Prof Bongani Mayosi

## Internal AWARDS

UCT College Fellow status (**Profs Raj Ramesar, Gary Maartens, Bongani Mayosi, Valerie Mizrahi, Keertan Dheda**) and College of Fellows' Young Researcher Awards (**Drs Tolu Oni and Jonathan Peter**).

UCT Social Responsiveness award: Assoc Prof Roshan Galvaan, Liesl Peters (Occupational Therapy).

## External AWARDS

South African Medical Research Council (SAMRC) Scientific Merit Awards: Gold – **Prof Gary Maartens** and **Prof Robert Wilkinson** (medicine), Silver – **Dr Jonathan Peter** (medicine), Platinum – **Prof Dan Stein** (psychiatry and mental health).

NRF Research Excellence Award for Emerging Researchers: **Dr Ntobeko Ntusi** (medicine).

S2A3 Gold South Africa Medal: **Prof Tim Noakes** (human biology).

Cancer Association of South Africa AG Oettlé Memorial Medal and International Agency for Research on Cancer Medal of Honour: **Prof Lynette Denny** (obstetrics and gynaecology).

Union Scientific Prize: **Dr Helen Cox** (pathology).

TW Kambule-NSTF Awards: 2014/2015 – **Prof Dan Stein** (psychiatry and mental health), **Prof Jennifer Jelsma** (health and rehabilitation), **Assoc Prof Grant Theron** (medicine); 2015/2016 – **Prof Crick Lund** (psychiatry and mental health), **Dr Tolu Oni** (public health), **Dr Sudesh Sivasu** (human biology).

HUGO Africa Award: **Prof Raj Ramesar** (pathology).

Royal Society of SA John FW Herschel Medal: **Emer Prof Robert Millar** (integrative biomedical sciences).

### HIGHLIGHTS from June 2015 to June 2016

#### New leadership appointments

**Prof Bongani Mayosi**, dean of Health Sciences.

**Prof Harsha Kathard**, head of new Dept of Health Sciences Education.

**Prof Carolyn Williamson** and **Prof Ed Sturrock**, heads of Depts of Pathology and Integrative Biomedical Sciences (evolved from Dept of Clinical Laboratory Sciences).

**Prof Karen Sliwa**, director of the Hatter Institute, first woman World Heart Federation president-elect (also first from Africa).

**Prof Lee Wallis**, head of Emergency Medicine, first International Federation for Emergency Medicine President from Africa.

**Prof Linda-Gail Bekker**, CEO of the Desmond Tutu HIV Centre (DTHC), first African woman International AIDS Society president.

#### New initiatives

SA's first hair and skin research laboratory (with Groote Schuur Hospital).

**Cape Universities Body Imaging Centre (CUBIC).**

#### Significant research contributions

A study by **Dr Llewellyn Padayachy** (surgery), with a leading Norwegian research institute, advanced the current static imaging method.

Research from the Francis Crick Institute and UCT, led by Dr Max Gutierrez and **Prof Robert Wilkinson** (director, Clinical Infections Diseases Initiative) could explain why people can be treated for TB hiding outside the lungs, recover, then get it again.

### POSTGRADUATES (end-2015)

**1 354** Master's students

**206** Master's graduates

**463** PhD students

**58** PhD graduates

**Highest**  
number  
yet in 1  
academic  
year

**Prof Keertan Dheda** (medicine) led evaluation of a rapid, low-cost, simple-to-use urine test for TB.

Three simple solutions to prevent heart attacks and stroke have been proven effective by an international team led by Hamilton researchers, with the SA component led by **Prof Karen Sliwa**.

**Assoc Prof Mark Hatherill** and **Assoc Prof Tom Scriba** (director and deputy director, SA Tuberculosis Vaccine Initiative (SATVI)) published work on TB vaccines for healthcare workers. SATVI also reported discovery of a TB blood test long before the disease manifests.

**Dr Musaed Abrahams** (Faculty MBChB graduate) and collaborators developed an application to assist healthcare workers guide antiretroviral treatment

**Prof Linda-Gail Bekker** (CEO, DTHC) and colleagues contributed to multi-country trials on dapivirine vaginal microbicide rings for preventing HIV infection.

#### Major research grants

UCT and the University of Washington received a Bill and Melinda Gates Foundation grant to test a low-cost, simpler method of diagnosing TB.

**Assoc Prof Jennifer Moodley** (Cancer Research Initiative Director), **Prof Iqbal Parker** (integrative biomedical sciences) and **Prof Bongani Mayosi** (medicine) received international Newton Fund grants via the SAMRC.

**Prof Lynnette Denny** (head, obstetrics and gynaecology) received a SAMRC Clinical Cancer Research Centre grant and **Prof Heather Zar** (head, paediatrics and child health) a SAMRC Extramural Research Unit.

UCT received 10 National Institute of Health-MRC US-South Africa Programme for Collaborative Biomedical Research grants (**Prof Carolyn Williamson**, **Assoc Prof Helen McIlleron**, **Prof Janet Hapgood**, **Assoc Prof Christopher Colvin**, **Dr Jo-Ann Passmore**, **Dr Catherine Riou**, **Assoc Prof Digby Warner**, **Prof Clive Gray**, **Assoc Prof Elmi Muller** and **Prof Robert Wilkinson**).

#### New UCT-accredited research groupings:

Kidney Disease and Hypertension Research Unit (**Prof Brian Rayner**).

Neurosciences Institute (**Prof Graham Fieggen**).

MRC/UCT Unit on Child and Adolescent Health (**Prof Heather Zar**).

**117 POSTDOCS**  
(end-2015)

Up from  
**108**  
in 2014

## DOCTORAL GRADUATIONS

### Source: Doctoral Degrees Board

#### **S. ADAMS (PUBLIC HEALTH)**

A study to evaluate immunodiagnostic tests for tuberculosis infection and determinants of TB infection in a population of health care workers in the Western Cape of South Africa  
Supervised by Professor K. Dheda and Professor R. Ehrlich

#### **E. ALLEN (CLINICAL PHARMACOLOGY)**

Optimising methodology for the elicitation of participant-reported data relating to drug safety in resource poor settings  
Supervised by Professor K. Barnes

#### **L. ATWOLI (PSYCHIATRY & MENTAL HEALTH)**

Trauma and posttraumatic stress disorder in South Africa  
Supervised by Professor D. Stein

#### **F.K. BAINE (HUMAN GENETICS)**

A molecular investigation of Huntington disease; origins of the mutation and current prevalence in South Africa  
Supervised by Professor J. Greenberg and Dr M.R. Hayden

#### **E. BARASA (HEALTH ECONOMICS)**

Examining priority setting and resource allocation practices in county hospitals in Kenya  
Supervised by Associate Professor S. Cleary

#### **S. CLOW (MATERNAL & CHILD HEALTH)**

The effect of a training and clinical facilitation programme for registered midwives in primary maternity settings with respect to managing labour: a pragmatic cluster randomised trial  
Supervised by Professor G.H. Swingler

#### **S. DALVIE (HUMAN GENETICS)**

Genetic analysis of bipolar disorder and alcohol use disorder  
Supervised by Professor C. Williamson, Professor R. Ramesar and Professor D. Stein

#### **K. DITSE (MEDICAL MICROBIOLOGY)**

Replication fidelity in the microevolution of mycobacteria  
Supervised by Associate Professor D. Warner and Professor V. Mizrahi

#### **K.A.M. DONALD (PAEDIATRICS)**

Multimodal neuroimaging and early neurobehavioral and developmental correlates of alcohol-exposed infants in Cape Town  
Supervised by Professor D. Stein

#### **C.H.S. DRIVER (MEDICAL BIOCHEMISTRY)**

The development of a radiolabelled macromolecule as a therapeutic agent for the treatment of cancer  
Supervised by Associate Professor E.M. Meintjes, Professor R. Hunter and Dr J. Zeevart

#### **J. DUARTE (MEDICAL BIOCHEMISTRY)**

Proteomic studies on patient responses to chemotherapy, radiotherapy and immunotherapy in cancers  
Supervised by Professor J. Blackburn

#### **Z.L.A. DUBY (PUBLIC HEALTH)**

Heterosexual penile-anal intercourse and HIV in five sub Saharan African countries  
Supervised by Associate Professor C. Colvin

#### **A.I. DZUDIE TAMDJIA (MEDICINE)**

Predicting pulmonary hypertension and outcomes in patients with left heart disease  
Supervised by Professor K. Sliwa-Hahnle and Associate Professor A. Kengne

#### **J. FAN (BIOMEDICAL ENGINEERING)**

Neuroimaging study of prenatal alcohol exposure effects on structural and functional connectivity in children  
Supervised by Professor E. Meintjes and Dr P. Taylor

#### **B. FANAMPE (MEDICINE)**

Interferon- $\gamma$  aptamers for the diagnosis of extra-pulmonary tuberculosis  
Supervised by Professor K. Dheda

#### **J.M. FISHER (EXERCISE SCIENCE)**

Revealing complexities within flat-water kayaking: injury prevention and biomechanical analysis  
Supervised by Dr R. Tucker, Professor T. Noakes and Mr D. Karpul

#### **M. GEIGER (DISABILITY STUDIES)**

Building communication interventions for children with severe disabilities on cultural resources: an action research enquiry  
Supervised by Associate Professor S. Duma and Associate Professor T. Lorenzo

#### **R. GOOSEN (MEDICAL BIOCHEMISTRY)**

Towards personalised medicine: genomic profiling of primary colorectal carcinoma in South African cohort with a focus on molecular subtype discovery and characterisation  
Supervised by Professor J.M. Blackburn

#### **A. GRIMSRUD (PUBLIC HEALTH)**

Loss to follow-up from South Africa's antiretroviral treatment programme: trends, risk factors, and models of care to improve retention  
Supervised by Professor B.L. Myer

#### **C.J. HATTINGH (NEUROSCIENCES)**

Structural neuroimaging in social anxiety disorder  
Supervised by Professor D.J. Stein

**J. HOARE (PSYCHIATRY)**

A Diffusion Tensor Imaging and Neurocognitive Study of ART-naïve and ART-treated Children in Cape Town  
Supervised by Professor D. Stein

**H.R. HOBBS (MEDICAL BIOCHEMISTRY)**

Preparation and evaluation of polymer microspheres for enhanced lateral flow immunoassay: the case study for malaria.  
Supervised by Professor J. Blackburn

**P.W. HODKINSON (EMERGENCY MEDICINE)**

Developing a patient-centred care pathway for paediatric critical care in the Western Cape  
Supervised by Professor L. Wallis and Professor A. Argent

**D.J. HUME (EXERCISE SCIENCE)**

Mind the Gap: Brain-behaviour Barriers to Successful Weight Loss Maintenance  
Supervised by Professor V. Lambert

**T. JONGWE (MEDICAL VIROLOGY)**

Construction and evaluation of three candidate vaccines expressing HIV-1 subtype C mosaic gag  
Supervised by Professor A. Williamson

**S.M. KASSIER (NUTRITION)**

Weight status, health and life-style profile in overweight/obese black (Zulu) South African women and their potential to engage successfully with a health weight loss programme  
Supervised by Professor M. Senekal

**M.C. KIRKMAN (EXERCISE SCIENCE)**

The reliability of 10 km treadmill time trial performance and the effect of different high intensity interval training strategies on 10 km running performance and associated physiological parameters  
Supervised by Associate Professor A.N. Bosch and Professor M.I. Lambert

**A.S. KOCH (MEDICAL MICROBIOLOGY)**

Physiology of drug resistant mycobacteria: Implications for pathogenesis  
Supervised by Professor D. Warner and Professor V. Mizrahi

**N. KOEN (PSYCHIATRY)**

Psychological trauma and posttraumatic stress disorder in a South African birth cohort study  
Supervised by Professor D. Stein and Professor R. Ramesar

**M. KULKARNI (BIOMEDICAL ENGINEERING)**

Monte Carlo simulation of slot-scanning X-ray imaging systems  
Supervised by Professor T. Douglas and Associate Professor F. Nicolls

**M.-J.N. LAGUETTE (CELL BIOLOGY)**

Characterisation of the 3' UTR of the COL5A1 gene: implication for musculoskeletal soft tissue injuries  
Supervised by Professor M. Collins and Professor S. Prince

**K.N. LAKHA (ANATOMY)**

Standards for epiphyseal union in South African children between the ages of 6 to 24 years using low dose x-ray (Lodox)  
Supervised by Professor A. Morris

**K.M. LARMUTH (MEDICAL BIOCHEMISTRY)**

Angiotensin-converting enzyme cleavage of the Alzheimer's beta-amyloid peptide  
Supervised by Professor E. Sturrock and Ms S. Schwager

**G.L. LAZARUS (MEDICAL PHYSICS)**

Validation of monte Carlo-based calculations for small irregularly shaped intra-operative radiotherapy electron beams  
Supervised by Emeritus Professor E.R. Hering

**M. LEBEKO (CELL BIOLOGY)**

The use of in vitro 2d co-culture models to determine the optimal keratinocyte: melanocyte ratio to be used in the development of pigmented 3d skin model  
Supervised by Associate Professor L. Davids

**S. MAART (PHYSIOTHERAPY)**

Disability in under resourced areas in the Western Cape, South Africa: a descriptive analytical study  
Supervised by Professor J. Jelsma and Professor S.L. Amosun

**H.M. MARANYANE (MEDICAL BIOCHEMISTRY)**

Phosphoglucomutase 1 (PGM1) expression and regulation in cancer cells  
Supervised by Associate Professor V. Leaner

**M. MATJILA (OBSTETRICS & GYNAECOLOGY)**

The role of kisspeptin and its cognate receptor GPR54 in normal and abnormal placentation  
Supervised by Professor A. Katz

**B.M. MUHIRE (BIOINFORMATICS)**

Evolutionary impacts of secondary structures within the genomes of eukaryote-infecting single-stranded DNA viruses  
Supervised by Associate Professor D. Martin

**M. MUSVOSVI (CLINICAL SCIENCE & IMMUNOLOGY)**

Systems analysis of the CD4 T cell response induced by the novel subunit tuberculosis vaccine, H1:IC31  
Supervised by Dr T. Scriba and Dr A. Penn-Nicholson

**K. NARAN (MEDICAL MICROBIOLOGY)**

Elucidation of mechanisms of antibiotic subversion in Mycobacteria

Supervised by Associate Professor D. Warner and Professor V. Mizrahi

**P.L. NARAYANAN (BIOMEDICAL ENGINEERING)**

Development of a tool for automatic segmentation of the cerebellum in MR images of children

Supervised by Professor E. Meintjes

**D. NEWMAN-VALENTINE (NURSING)**

Transsexual women on the journey of sexual re-alignment in a hetero-normative healthcare system in the Western Cape

Supervised by Associate Professor S. Duma

**V. OKUNGU (HEALTH ECONOMICS)**

Towards universal health coverage: Exploring healthcare-related financial risk protection for the informal sector in Kenya

Supervised by Professor D. McIntyre

**L.C. PADAYACHY (NEUROSURGERY)**

Ultrasound as a non-invasive diagnostic tool in paediatric neurosurgery: Relationship between the optic nerve sheath diameter (ONSD) and intracranial pressure (ICP)

Supervised by Professor G. Fieggen

**A. POORAN (MEDICINE)**

The role of IL-4 and Th2-like cytokines in pulmonary tuberculosis

Supervised by Professor K. Dheda and Professor J. Blackburn

**P. RUNCIMAN (EXERCISE SCIENCE)**

Performance and fatigue characteristics of Paralympic athletes with cerebral palsy

Supervised by Professor W. Derman

**G. SALAZAR OREJUELA (BIOINFORMATICS)**

Integration and visualisation of data in bioinformatics

Supervised by Professor N. Mulder

**M.S. SIRRY (CARDIOVASCULAR BIOMECHANICS)**

Computational biomechanics of acute myocardial infarction and its treatment

Supervised by Associate Professor T. Franz

**A.S. UHLMANN (PSYCHIATRY)**

Neural correlates of deficits in affect regulation in methamphetamine dependence with and without a history of psychosis

Supervised by Professor D.J. Stein and Dr B.S. Spottiswoode

**M. UYS (EXERCISE SCIENCE)**

Socio-ecological influences on physical activity in primary school children: a view from South Africa

Supervised by Professor V. Lambert and Dr C. Draper

**P.J. VAN ZYL (NEUROSCIENCE)**

A study of the WKY as a rat model of depression

Supervised by Professor V. Russell

**K. VILJOEN (MEDICAL BIOCHEMISTRY)**

A systems biology study of bacterially-associated colorectal cancer

Supervised by Professor J.M. Blackburn

**D. VULETIC (PSYCHIATRY)**

Imaging of cerebral glucose metabolism, functional connectivity and perfusion in methamphetamine dependence, with and without psychotic symptoms, compared to healthy controls: a PET and MRI study

Supervised by Professor D. Stein

**T. WILLMER (MEDICAL CELL BIOLOGY)**

The role and regulation of the T-box transcription factor 3 in soft tissue and bone sarcomas

Supervised by Associate Professor S. Prince

**A. WONKAM (HUMAN GENETICS)**

Burden of sickle cell disease and prenatal genetic diagnosis in Cameroon

Supervised by Professor R. Ramesar

**Z. ZUHLKE (PAEDIATRICS)**

Outcomes of asymptomatic and symptomatic rheumatic heart disease

Supervised by Professor B. Mayosi

**V.E.M. ZWEIGENTHAL (PUBLIC HEALTH)**

The contribution of public health medicine specialists to South Africa's health system

Supervised by Professor L. London and Emeritus Professor W. Pick

**PATENTS****Filed Applications**

Alhamud, A.A., Meintjes, E.M., Van der Kouwe, A.J.W. Correcting for Main Magnetic Field Drift in MRI Scanners. National Phase Patent Application South Africa 2015/04963.

Alhamud, A.A., Meintjes, E.M., Van der Kouwe, A.J.W. Correcting for Main Magnetic Field Drift in MRI Scanners. National Phase Patent Application United States 14/796,268.

Alhamud, A.A., Meintjes, E.M., Van Niekerk, A.M.J. An Orientation Tracking Device. Provisional Patent Application Britain 1513558.5.

Ashkani, J., Naidoo, K.J. Genetic Biomarkers and Method for Evaluating Cancers. PCT Patent Application PCT PCT/IB2015/057916.

Bezuidenhout, D., Davids, L.M. Production of an Autologous Epidermal Sheet. Provisional Patent Application South Africa 2015/03987.

Brekken, R., Fieggen, A.G., Padayachy, L., Selbekk, T. Method of Measuring Intracranial Pressure. Provisional Patent Application Norway 20150687.

Brijlal, Y., John, L.R., Sivasasu, S. Hand Exoskeleton. National Phase Patent Application China 201380057411.8.

Brijlal, Y., John, L.R., Sivasasu, S. Hand Exoskeleton. National Phase Patent Application Europe 13824005.6.

Brijlal, Y., John, L.R., Sivasasu, S. Hand Exoskeleton. National Phase Patent Application South Africa 2015/02680.

Clark, H.W., Horsnell, W. PCT Patent Application PCT PCT/GB2015/050474.

Cuddalore Parthasarathy, S, Krishnan, S., Mathew, T.L., Rajasekharan, S, Salim, S, Sivasasu, S. System for Dispensing Pills. Provisional Patent Application India 841/CHE/2015.

Dheda, K.U.J., John, L.R., Sivasasu, S., Theron, G. Method and Device to Monitor Infectious Patients. PCT Patent Application PCT PCT/IB/2015/053143.

Driver, C, Hunter, R., Parker, M.I. Radiopharmaceutical Conjugate. National Phase Patent Application Argentina P 150103118.

Driver, C, Hunter, R., Parker, M.I. Radiopharmaceutical Conjugate. PCT Patent Application PCT PCT/IB2015/057378.

Hahnle, K., Launay, J.-M., Mebazaa, A. Diagnostic Biomarkers for Peripartum Cardiomyopathy. PCT Patent Application PCT PCT/EP2015/054205.

Hanekom, W. A., Hraha, T., Janjic, N., Ochsner, U., Penn-Nicholson, A., Scriba, T.J., Sterling, D., Thompson, E.G., Zak, D. E. Biomarkers for Detection of Tuberculosis Risk. Provisional Patent Application United Arab Emirates 62/158,930.

Hanekom, W. A., Hraha, T., Janjic, N., Ochsner, U., Penn-Nicholson, A., Scriba, T.J., Sterling, D., Thompson, E.G., Zak, D. E. Biomarkers for Detection of Tuberculosis Risk. Provisional Patent Application United States 62/108,424.

Hanekom, W. A., Hraha, T., Janjic, N., Ochsner, U., Penn-Nicholson, A., Scriba, T.J., Sterling, D., Thompson, E.G., Zak, D. E. Biomarkers for Detection of Tuberculosis Risk. Provisional Patent Application United States 62/108,431.

Jacobs, M., Jardine, M.A. Tricyclic Derivatives. National Phase Patent Application China 201380061666.1.

Jacobs, M., Jardine, M.A. Tricyclic Derivatives. National Phase Patent Application India 3088CHENP2015.

Jacobs, M., Jardine, M.A. Tricyclic Derivatives. National Phase Patent Application Russia 2015125300.

Jacobs, M., Jardine, M.A. Tricyclic Derivatives. National Phase Patent Application South Africa 2015/03466.

Jacobs, M., Keeton, Method of Inhibiting or Treating Mycobacterium Tuberculosis Infection or Tuberculosis Disease. Provisional Patent Application South Africa 2015/01166.

Leaner, V.D., Trent, J., Van der Watt, P.J. Small Molecule Inhibitors for Cancer Therapy. PCT Patent Application PCT PCT/IB2015/056019.

Patnaik, S., Sivasasu, S. Accessory for Conducting Patella Surgery. Provisional Patent Application Britain 1511597.5.

## Granted Applications

Beeton-Kempen, N., Blackburn, J.M., Coulson, L.B. Cytochrome P450 Bioassay. National Phase Patent Application Britain 1119474.3.

Hitzeroth, I.I., Maclean, J.M., Rybicki, E.P., Williamson, A-L. Expression of Proteins in Plants. Divisional Patent Application United States 13/753,196.

Howells, M.F. Stabilising Kit. Provisional Patent Application Britain 1318310.8.

Patnaik, S., Sivasasu, S. Anatomical Support Facilitating Medical Imaging of the Hip, Leg and Knee. National Phase Patent Application South Africa 2014/08083.

Patnaik, S., Sivasasu, S. Anatomical Support Facilitating Medical Imaging of the Hip, Leg and Knee. National Phase Patent Application United States 14/534,277.

Rybicki, E.P., Tanzer, F.L. Expression System Incorporating a Capsid Promoter Sequence as an Enhancer of a Cytomegalovirus Promotor. National Phase Patent Application India 4927/DELNP/2008.

# Department of Anaesthesia and Perioperative Medicine

## Research Report 2015

**Head of Department: Professor Justiaan Swanevelder**

**Second Chair: Professor Robert Dyer**

## Departmental Profile

The Professor and Head of Department of Anaesthesia, Justiaan LC Swanevelder, is an international expert in the field of Transoesophageal (TOE) and Transthoracic (TTE) Echocardiography, and has played a central role in the development of this field, and formal guidelines for practice and accreditation in the United Kingdom. He is a prominent member of the European Association of Cardio-thoracic Anaesthesia (EACTA).

In recognition of the importance of the discipline of Anaesthesia in the field of Perioperative Medicine, during the course of 2015 the Faculty of Health Sciences approved the change of the name of our Department to "Department of Anaesthesia and Perioperative Medicine". Professor Bruce Biccard was appointed as the lead clinician and Head of the Clinical Unit of Perioperative Medicine in the Department.

Two major Fellowships were established. Stortz sponsored the first, and Dr Ross Hofmeyr was appointed to the Airway Fellowship. The Draeger Company contributed towards a Fellowship in Simulation and Remote Learning, occupied by Dr Rowan Duys.

## Airway research

2015 saw considerable advances in the Difficult Airway Facility, under the leadership of the incumbent of the Stortz Airway Fellowship.

## Critical Care

In the field of septic shock, two projects are in progress. The first involves high dose Vitamin C in the management of haemodynamic failure, and the second relates to markers of oxidative stress in this condition. An international collaborative study is in progress on the attitudes of physicians to the withdrawal of therapy.

## Obstetric Anaesthesia

This remains an important area of investigation. The project on spinal anaesthesia in preeclampsia has been completed. There is ongoing collaboration with the University of Washington in the field of echocardiography in preeclampsia. Prof RA Dyer, who is NRF B2 rated, leads this research team.

## Laboratory Research

The Department was involved in several areas of research in 2015. Dr Miller is the clinician in charge of the laboratory. Lizel Immelman, our senior medical technologist, plays an important role in the teaching of the coagulation process. Ms Margot Flint was appointed as Research Assistant and is involved in several projects, working closely with Professor Biccard in the area of Perioperative Medicine. In the area of clinical fluid and coagulation research, three studies involved the use of TEG to examine coagulation in HIV parturients, in patients undergoing renal biopsy, and in patients with traumatic brain injury. There is considerable ongoing animal research. Dr M Miller and Ms M Flint are involved in an animal study of coagulation in a porcine model of acute liver failure, in collaboration with Dr C Senden of UCL. Transoesophageal echocardiography is being performed in baboons undergoing valve replacement. Several Departmental members have been trained in anaesthetising sheep as part of research on minimally invasive mitral valve insertion, in the Hatter institute, in collaboration with Professor Peter Zilla.

## Collaboration

National collaboration has been strengthened, in particular with UKZN, where the management of obstetric spinal hypotension, specifically in the South African setting, is a focus. Important international collaborations were continued and expanded during 2015, with Dr A Roscoe (Papworth, Cambridge, UK), Professor E Sloth (Aarhus, Denmark), Professor C Ortner (Medical University of Vienna), Dr V Krishnamoorthy (University of Washington, Seattle), Dr B Buddeberg (St Georges, London, UK), and Professor Alicia Dennis (University of Melbourne), amongst others.

## Departmental Statistics

### Permanent and Long-Term Contract Staff

Professors	2
Associate Professors	2
Specialists	42
Medical Officers	9
Technologists	7
Administrative and Support staff	6
<b>Total</b>	<b>68</b>

### Emeritus and Affiliated Staff

Emeritus Professors	2
Affiliated Consultants	1
<b>Total</b>	<b>3</b>

### Students

Doctoral	2
Masters (Registrars)	48
Undergraduate 4 <sup>th</sup> and 5 <sup>th</sup> year MBCHB	419
<b>Total</b>	<b>469</b>

## Research Fields and Staff

### SWANEVELDER, JLC.

Transoesophageal and transthoracic echocardiography (see above). Laboratory work on local anaesthetic toxicity in mice, employing TTE.

### HADEBE N, SWANEVELDER J.

Cardiac pre-conditioning.

### MILLER M, IMMELMAN L, FLINT M.

Coagulation studies using thromboelastography and thromboelastometry.

### JOUBERT IA, PIERCY J, MILLER M.

Septic shock, ICU Quality Assurance, liver failure model.

### DYER RA, VAN DYK D, REED AR, VORSTER A, TIMMERMAN K, RADEMEYER M, SWANEVELDER J.

#### Obstetric anaesthesia:

Cardiac output studies during spinal anaesthesia in patients with preeclampsia; effects of fluid

loading and vasopressors; the genetics of preeclampsia; effects of vasopressors on cord gases; spinal anaesthesia in the obese parturient; transoesophageal echocardiography, temperature changes during spinal anaesthesia. See also further MMed projects below.

#### Red Cross Hospital:

Management of burns in children; pain management in children; Case reports; Fluid management in children; Noninvasive haemoglobin measurement; Paediatric burns: Coagulation studies; Evaluation of the need for psychosocial services for paediatric burn patients at the RCWMCH.

#### HODGES O.

Coagulation in patients with paediatric burns.

### SWANEVELDER J, MYBURGH A, NEJTHARDT M, ROODT F, CLOETE E.

Transoesophageal echocardiography in cardiac anaesthesia; Point of care TTE; Medical student education in ultrasound.

#### LLEWELLYN R.

Drug errors in anaesthesia.

### HOFMEYR R, ROODT F, DE VAAL A.

Airway research.

#### DUYS R.

Simulation and remote learning in anaesthesia.

## Contact Details

Postal Address: D23 Department of Anaesthesia and Perioperative Medicine, New Groote Schuur Hospital, Anzio Road, Observatory, 7925, South Africa

UCT Telephone: +27 21 406 6143

GSH Telephone: +27 21 404 5004

Fax: +27 21 406 6589

Email: [justiaan.swanevelder@uct.ac.za](mailto:justiaan.swanevelder@uct.ac.za) and [robert.dyer@uct.ac.za](mailto:robert.dyer@uct.ac.za)

Website: <http://www.health.uct.ac.za/fhs/departments/anaesthesia>

## RESEARCH OUTPUT

### Chapters in books

Roelofse, J.A. and Wilson, G. 2015. Pediatric sedation in the underdeveloped third world: an African perspective - models, protocols and challenges. In K. P. Mason (ed), Pediatric Sedation Outside of the Operating Room, pp. 523-540. 2<sup>nd</sup> edition. New York: Springer. ISBN 9781493913893.



## Articles in peer-reviewed journals

Afshani, A., Schulein, S., Biccard, B.M. and Thomas, J.M. 2015. Clinical utility of B-type natriuretic peptide (NP) in pediatric cardiac surgery – a systematic review. *Pediatric Anesthesia*, 25: 115-126.

Brouard, K.J., Howard, B. and Dyer, R.A. 2015. Hepatic pregnancy suspected at term and successful delivery of a live neonate with placental attachment to the right lobe of the liver. *Obstetrics & Gynecology*, 126(1): 207-210.

Calligaro, G.L., Theron, G., Khalfey, H., Peter, J., Meldau, R., Matinyenya, B., Davids, M., Smith, L., Pooran, A., Lesosky, M., Esmail, A., Miller, M., Piercy, J.L., Michell, W.L., Dawson, R., Raine, R.I., Joubert, I. and Dheda, K. 2015. Burden of tuberculosis in intensive care units in Cape Town, South Africa, and assessment of the accuracy and effect on patient outcomes of the Xpert MTB/RIF test on tracheal aspirate samples for diagnosis of pulmonary tuberculosis: a prospective burden of disease study with a nested randomised controlled trial. *Lancet Respiratory Medicine*, 3: 621-630.

Carvalho, B. and Dyer, R.A. 2015. Norepinephrine for spinal hypotension during cesarean delivery. *Anesthesiology*, 122(4): 728-730.

Dennis, A.T., Dyer, R.A., Gibbs, M., Nel, L., Swanevelder, J. and Castro, J.M. 2015. Transthoracic echocardiographic assessment of haemodynamics in severe pre-eclampsia and HIV in South Africa. *Anaesthesia*, 70: 1028-1038.

Gordon, P.C. 2015. The role and purpose of Anesthesia Museums in preserving our heritage. *Journal of Anesthesia History*, 1: 34-35.

Gray, C.L., Levin, M., Wieselthaler, N., Wood, R.J. and Wilson, G. 2015. Peri-anaesthetic anaphylaxis due to radiographic contrast medium: the role of intradermal testing in diagnosis and management. *Current Allergy & Clinical Immunology*, 28(3): 210-212.

Gray, R. 2015. Which colloid to choose for neonates, infants and children. *Southern African Journal of Anaesthesia and Analgesia*, 21(1): 56-58.

Helberg, J., Hansen, L.S., Wemmelund, K., Sorensen, A.H., Illkjaer, C., Cloete, E., Nolte, D.C., Roodt, F., Dyer, R.A., Swanevelder, J., Sloth-Nielsen, J. and Sloth, E. 2015. Point-of-care clinical ultrasound for medical students. *Ultrasound International Open*, 1: E58-E66.

Hill, L.T. and Miller, M. 2015. Carbohydrate loading in the preoperative setting. *SAMJ South African Medical Journal*, 105(3): 173-174.

James, M.F.M. 2015. Context-sensitive fluid administration: what, when and how much? *Southern*

*African Journal of Anaesthesia and Analgesia*, 21(1): 38-39.

James, M.F.M. 2015. How safe are regional techniques? Evidence from large studies with big data. *Southern African Journal of Anaesthesia and Analgesia*, 21(1): 54-55.

James, M.F.M., Hofmeyr, M. and Grocott, M.P.W. 2015. Losing concentration: time for a new MAPP? *British Journal of Anaesthesia*, 115(6): 824-826.

James, M.F.M., Joubert, I., Michell, W.L., Nicol, A., Navsaria, P.H. and Gillespie, R.S. 2015. Faulty risk-of-bias assessment in a meta-analysis of hydroxyethyl starch for non-septic ICU patients: a rebuttal. *Critical Care*, 19: 444.

Jarnheimer, A., Kantor, G., Bickler, S., Farmer, P. and Hagander, L. 2015. Frequency of surgery and hospital admissions for communicable diseases in a high- and middle-income setting. *British Journal of Surgery*, 102: 1142-1149.

Kyriacos, U., Jelsma, J.M., James, M.F.M. and Jordan, S. 2015. Early warning scoring systems versus standard observations charts for wards in South Africa: a cluster randomized controlled trial. *Trials*, 16: 103(15pp).

Langesaeter, e., Gibbs, M. and Dyer, R.A. 2015. The role of cardiac output monitoring in obstetric anaesthesia. *Current Opinion in Anesthesiology*, 28: 247-253.

Machoki, M., Millar, A.J., Albertyn, R., Cox, S.G., Thomas, J.M. and Numanoglu, A. 2015. Local anesthetic wound infusion versus standard analgesia in paediatric post-operative pain control. *Pediatric Surgery International*, 31: 1087-1097.

Ng, A. and Swanevelder, J. 2015. The third ultrasound dimension in anaesthesia and intensive care. *British Journal of Anaesthesia*, 114(3): 366-369.

Ortner, C.M., Combrink, B., Allie, S., Story, D., Landau, R., Cain, K. and Dyer, R.A. 2015. Strong ion and weak acid analysis in severe preeclampsia: potential clinical significance. *British Journal of Anaesthesia*, 115(2): 275-284.

Pretorius, T., Brennan, B.E. and Thomas, J.M. 2015. *Staphylococcus aureus* bacteraemia in children: a formidable foe. *Southern African Journal of Anaesthesia and Analgesia*, 21(6): 158-162.

Reed, A.R., Mumba, J. and Dyer, R.A. 2015. A spotlight on obstetric anaesthesia in the developing world: finally getting the attention it deserves. *Anesthesia and Analgesia*, 120(6): 1179-1181.

Richards, G.A., Joubert, I. and Brink, A.J. 2015. Optimising the administration of antibiotics in critically ill patients. *SAMJ South African Medical Journal*, 105(5): 422-426.

Roelofse, J. and Piercy, J.L. 2015. South African Society of Anaesthesiologists Sedation Guidelines 2015. Southern African Journal of Anaesthesia and Analgesia, 21(2): S1-S36.

Rumboll, C., Dyer, R.A. and Lombard, C. 2015. The use of phenylephrine to obtund oxytocin-induced hypotension and tachycardia during caesarean section. International Journal of Obstetric Anesthesia, 24: 297-302.

Thomas, J.M. 2015. Parental refusal: legal and ethical considerations. Southern African Journal of Anesthesia and Analgesia, 21(1): 34-36.

van den Berg, M., Kellaway, L.A., Swanevelder, J. and James, M.F.M. 2015. A comparison of magnesium induced recurarization between neuromuscular block reversal agent in an in vivo rat model. Southern African Journal of Anaesthesia and Analgesia, 21(2): 31.

Weiskopf, R.B. and James, M.F.M. 2015. Update of use of hydroxyethyl starches in surgery and trauma. Journal of Trauma and Acute Care Surgery, 78(6): S54-S59.

# Department of Health and Rehabilitation Sciences

## Research Report 2015

**Head of Department: Associate Professor Shajila Singh**

## Departmental Profile

The Department of Health and Rehabilitation Sciences is a multi-professional department, which offers undergraduate and postgraduate programmes in Audiology, Speech-Language Pathology, Occupational Therapy, and Physiotherapy. The department also offers postgraduate diplomas, masters and PhD programmes in Disability Studies and Nursing and Midwifery. The department is characterised by diverse research interests and boasts a high level of research outputs. Much research is related to poverty and inequality, and HIV and AIDS, with a particular focus on disability and social inclusion. There is a strong engagement in research regarding health-related quality of life and the International Classification of Functioning and Disability. The department is home to researchers in Physiotherapy, Occupational Therapy, Communication Sciences and Disorders, Nursing and Midwifery and Disability Studies. The department has also developed expertise in clinical education research, to enhance student learning at undergraduate and postgraduate levels.

## Departmental Statistics

### Permanent and Long-Term Contract Staff

Professor	4
Associate Professor	9
Senior Lecturers	14
Lecturers	12
Assistant Lecturers	1
Part-time Lecturers	2
Research Staff	2
Clinical Educators	26
Technical Support Staff	3
Administrative and Clerical Staff	13
<b>Total</b>	<b>86</b>

### Emeritus and Honorary Staff

Emeritus Professor	1
Honorary Research Associates	3
<b>Total</b>	<b>4</b>

### Students

Doctoral	50
Masters	100
PG Diploma	75
Undergraduates	812
<b>Total</b>	<b>1037</b>

## Research Fields and Staff

### Permanent staff

#### PROFESSOR SEYI AMOSUN

Physiotherapy  
Non-communicable diseases: Disability prevention, health promotion and wellness across lifespan; health professions education

#### MRS ANTHEA BRINKMAN

Communication Sciences and Disorders; Disability Studies  
Rehabilitation service delivery, community based rehabilitation; health needs of people with disabilities in home and community settings

#### DR HELEN BUCHANAN

Occupational Therapy  
Evidence-based practice; hand therapy; measurement instruments; occupational therapy for physical health conditions; clinical reasoning and reflection; education; occupation-based practice

#### DR THERESA BURGESS

Physiotherapy  
Clinical and research ethics; clinical sports physiotherapy; muscle damage and endurance exercise

#### ASSOCIATE PROFESSOR SHEILA CLOW

Nursing and Midwifery  
Midwifery; women's health care; intrapartum care; mentorship

#### ASSOCIATE PROFESSOR SINEGUGU DUMA

Nursing and Midwifery  
Health sector's response to gender based violence, Sexual violence in different settings, forensic nursing, qualitative research.

#### ASSOCIATE PROFESSOR EVE DUNCAN

Occupational Therapy  
Poverty, occupation and psychiatric disability; disability inclusion through participatory development in deep rural communities; Occupational therapy education

#### DR GILLIAN FERGUSON

Physiotherapy  
Paediatrics, Motor Control and Rehabilitation; Physical Activity and Fitness Testing

#### DR NICKI FOUCHE

Nursing and Midwifery  
Critical Care Nursing; Advanced Nursing Practice; End-of-life care/palliative care; Death and Dying (Thanatology); Curriculum Development; Phenomenology - especially Hedeggerian Hermeneutic Phenomenology

#### ASSOCIATE PROFESSOR ROSHAN GALVAAN

Occupational Therapy  
Occupation-based community development practice; occupational justice; occupational choice; youth; OT curriculum and human rights

#### MS PAM GRETSCHEL

Occupational Therapy  
Best Occupational Therapy practice for children and caregivers in a South African context

#### MS ZERINA HAJWANI

Occupational Therapy  
Supported Employment of Persons with Psychiatric Disabilities; Employers and Employment Equity in South Africa; Occupational Justice within Forensic Psychiatry; Recovery and persons with psychiatric diagnosis.

**DR MICHAL HARTY**

Communication Sciences and Disorders  
Augmentative and Alternative Communication (AAC); naturalistic developmental behavioural interventions for children autism and other developmental disabilities, and family-centred intervention practices (particularly parent training).

**MS CANDICE HENDRICKS**

Physiotherapy  
Rehabilitation of sports-related orthopaedic and neuromusculoskeletal conditions

**DR BUSAYO IGE**

Disability Studies  
Identity and student learning; teaching and learning

**PROFESSOR JENNIFER JELSMA**

Physiotherapy  
Function in children with HIV/AIDS; health related quality of life; living conditions of people with disabilities; use of the ICF

**PROFESSOR HARSHA KATHARD**

Communication Sciences and Disorders; Health Sciences Education  
Communication development and impairment; disability innovation; rehabilitation service delivery

**DR UNA KYRIACOS**

Nursing and Midwifery  
Role of biosciences in clinical nursing education; vital signs monitoring; early warning/modified early warning score systems; ophthalmic nursing; intervention research: cluster RCTs; patient safety.

**PROFESSOR THERESA LORENZO**

Disability Studies; Occupational Therapy  
Inclusive livelihoods development for disabled youth and women; disability inclusive sports, arts and recreation; monitoring and evaluation of community based rehabilitation; disability in higher education

**DR SORAYA MAART**

Physiotherapy  
Public Health issues; People with disabilities: epidemiology, functioning, participation and access to services; Occupational Health interventions

**MS SHAMILA MANIE**

Physiotherapy  
TB; cardio-pulmonary rehabilitation; Intensive Care Unit management

**ASSOCIATE PROFESSOR PAT MAYERS**

Nursing and Midwifery  
Mental health; support and training for health care practitioners; human rights, ethics and care; task shifting.

**DR JUDITH MCKENZIE**

Disability Studies  
intellectual disability in Africa: inclusive education;

disability in migration and climate change; online teaching and learning; support to families with children with disabilities

**MS NIRI NAIDOO**

Physiotherapy  
Neuromusculoskeletal conditions (including hand rehabilitation); Higher Education practice and assessment strategies, Childhood obesity

**MS VIVIENNE NORMAN**

Communication Sciences and Disorders  
Paediatric dysphagia and early intervention

**DR MICHELLE PASCOE**

Communication Sciences and Disorders  
Speech, language and literacy difficulties in children; Acquisition of Bantu languages.

**MS LUCRETIA PETERSEN**

Communication Sciences and Disorders  
Ototoxicity; otoacoustic emissions; reliability and validity; Audiology; diagnostics; systematic review

**ASSOCIATE PROFESSOR ROMY PARKER**

Physiotherapy  
Chronic pain and pain in HIV

**MS LIESL PETERS**

Occupational Therapy  
Community development, human occupation and justice with a focus on issues related to vulnerability and vulnerable groups

**ASSOCIATE PROFESSOR LEOGANG RAMMA**

Communication Sciences and Disorders  
Public Health Audiology

**ASSOCIATE PROFESSOR ELELWANI RAMUGONDO**

Occupational Therapy  
Promoting childhood play in context; play, learning and development outcomes for children on anti-retroviral treatment; the politics of human occupation; occupational consciousness

**MS CHRISTINE ROGERS**

Communication Sciences and Disorders  
Vestibular assessment and management; falls and fall prevention

**MRS CHERILEE RUTHERFORD**

Communication Sciences and Disorders  
Adult and Paediatric Aural Rehabilitation, Music & Hearing loss, Telehealth, Hearing Aids & Amplification Technologies

**ASSOCIATE PROFESSOR SHAJILA SINGH**

Communication Sciences and Disorders  
Dysphagia; adult motor speech; service delivery; linguistically relevant materials

**MS AMSHUDA SONDAY**

Occupational Therapy  
occupational therapy identities, professional role

transitions, profound multiple intellectual disability, social inclusion

#### **DR BRIAN WATERMEYER**

Disability Studies

Disability in families living in poverty; Disability & mental health; Critical psychoanalysis & disability oppression; Disability, global human rights & citizenship; Sensory impairment, technology; right to information.

#### **Clinical Educator Staff**

#### **MS FATEMAH CAMROODIEN-SURVE**

Communication Sciences and Disorders

Early childhood intervention; parent training; clinical education

#### **MS TRACEY-LEE CLOETE**

Communication Sciences and Disorders

Public health audiology; developing programs for prevention and early identification of hearing loss; school-based screening services; health systems research

#### **MS INGE CROY**

Physiotherapy

Sports Injuries and Rehabilitation; Clinical musculoskeletal injuries

#### **MRS SHIREEN DAMONSE**

Occupational Therapy

Paediatrics and school based occupational therapy

#### **MRS NAILA EDRIES**

Physiotherapy

Occupational health and wellness; promoting behaviour change; musculoskeletal injury management; evaluation and feedback methods to drive learning

#### **MRS CELESTE EDWARDES**

Communication Sciences and Disorders

Right hemisphere communication disorders intervention and referral pathways; cerebral palsy and communication

#### **MS HANSKE FLIERINGA**

Occupational Therapy

Physical health rehabilitation; child learning, play and development; work practice and community practice development. Student learning and augmented support; teaching and curriculum development.

#### **MRS FADIA GAMIELDIEN**

Occupational Therapy

Health professionals' attitudes towards mental health service users; disability, diversity and social change; community integration, community mental health and health promotion

#### **MRS FAHMIDA HARRIS**

Physiotherapy

Mental health; member profiles at senior service centres

#### **MS NIKKI KEETON**

Communication Sciences and Disorders

Higher education and clinical teaching

#### **MS JANE LE ROUX**

Communication Sciences and Disorders

Language and literacy development in grade 2 and 3 learners

#### **MS LOREN LEWIS**

Occupational Therapy

Education

#### **MS TASNEEM MOHOMED**

Occupational Therapy

Child learning development and play; autism spectrum disorder

#### **MR MARC NAIDOO**

Physiotherapy

Clinical education models and strategies; rehabilitation in neuro patients; soccer injury prevention

#### **MRS ELRIETHA OLIVIER**

Communication Sciences and Disorders

Cochlear implants; Bimodal fitting and FM use (Rehabilitative Technology); Balance disorders, Public Health: Audiology and Speech/Language Therapy

#### **MRS DES SCOTT**

Physiotherapy

Group teaching in clinical practice; paediatric clinical practice; Quality of life

#### **MRS HEATHER TALBERG**

Physiotherapy

Clinical education best practice models and guidelines; developing professional and reflective practitioners

#### **MS FREDA WALTERS**

Communication Sciences and Disorders

Fluency, community based rehabilitation; clinical education

### **Contact Details**

Postal Address: Department of Health and Rehabilitation Sciences, Faculty of Health Sciences University of Cape Town, Anzio Road, Observatory, 7925

Telephone: +27 21 406 6401

Fax: +27 21 406 6323

Email: [remo.vanderhorst@uct.ac.za](mailto:remo.vanderhorst@uct.ac.za)

Website: <http://www.dhrs.uct.ac.za>

## RESEARCH OUTPUT

### Edited books

Moonsamy, S.M. and Kathard, H. (eds) 2015. *Speech-Language Therapy in a School Context. Principles and Practices*, 347pp. South Africa: Van Schaik Publishers. ISBN 9780627032943.

### Chapters in books

Duncan, E.M. and Hajwani, Z. 2015. Psychosocial rehabilitation. In S.E. Baumann (ed), *Primary Care Psychiatry: A Practical Guide for Southern Africa*. pp. 723-741. 2<sup>nd</sup> edition. Cape Town: Juta. ISBN 9780702197987.

Galvaan, R., Gretschel, P. and Peters, L. 2015. Occupational therapy in the school context: an occupational perspective. In S. Moonsamy and H. Kathard (eds), *Speech-Language Therapy in a School Context. Principles and Practices*, pp. 261-273. South Africa: Van Schaik Publishers. ISBN 9780627032943.

Harty, M. and Alant, E. 2015. Early childhood development and intervention. In E. Landsberg (ed), *Addressing Barriers to Learning. A South African Perspective*, pp. 117-135. 3<sup>rd</sup> edition. South Africa: Van Schaik Publishers. ISBN 9780627033759.

Kathard, H. and Pillay, M. 2015. Communicating in educational contexts. In S. Moonsamy and H. Kathard (eds), *Speech-Language Therapy in a School Context. Principles and Practices*, pp. 39-54. South Africa: Van Schaik Publishers. ISBN 9780627032943.

Kathard, H. and Moonsamy, S.M. 2015. Communication professions in transition: becoming responsive to context. In S. Moonsamy and H. Kathard (eds), *Speech-Language Therapy in a School Context. Principles and Practices*, pp. 3-13. South Africa: Van Schaik Publishers. ISBN 9780627032943.

Kenny, N.K. and Singh, S.A. 2015. Decision making for enteral nutrition in adult patients with dysphagia – a guide for health care professionals. In R. Speyer and H. Bogaardt (eds), *Seminars in Dysphagia*, pp. 137-157. Croatia: InTech Open Access Publisher. ISBN 9789535121510.

Moonsamy, S.M. and Kathard, H. 2015. Speech-language therapists as active agents of change. In S. Moonsamy and H. Kathard (eds), *Speech-Language Therapy in a School Context. Principles and Practices*, pp. 327-329. South Africa: Van Schaik Publishers. ISBN 9780627032943.

Pascoe, M., Harty, M. and le Roux, J. 2015. Language, literacy and learning in the classroom. In S. Moonsamy and H. Kathard (eds), *Speech-Language Therapy*

in a School Context. Principles and Practices, pp. 175-195. South Africa: Van Schaik Publishers. ISBN 9780627032943.

### Articles in peer-reviewed journals

Asoogo, C. and Duma, S.E. 2015. Factors contributing to late breast cancer presentation for health care amongst women in Kumasi, Ghana. *Curationis*, 38(1): 1287(7pp).

Bateman, K.J., Rogers, C. and Meyer, E. 2015. An approach to acute vertigo. *SAMJ South African Medical Journal*, 105(8): 694-695.

Booyens, M. and Galvaan, R. 2015. Young entrepreneurs' experiences of navigating their success. *Commonwealth Youth and Development*, 13(1): 45-55.

Booyens, M., van Pletzen, E. and Lorenzo, T. 2015. The complexity of rural contexts experienced by community disability workers in three southern African countries. *African Journal of Disability*, 4(1): 167(9pp).

Buchanan, H.A., Jelsma, J.M. and Siegfried, N. 2015. Measuring evidence-based practice knowledge and skills in occupational therapy – a brief instrument. *BMC Medical Education*, 15: 191(12pp).

Buchanan, H.A., Lorenzo, T. and Law, M. 2015. Fostering evidence-based practice in community-based rehabilitation: strategies for implementation. *South African Journal of Occupational Therapy*, 45(2): 56-62.

Calligeris, T., Burgess, T. and Lambert, M.I. 2015. The incidence of injuries and exposure time of professional football club players in the Premier Soccer League during football season. *South African Journal of Sport Medicine*, 27(1): 16-19.

Chiwariidzo, M. and Naidoo, N. 2015. Are parents and adolescents in agreement on reporting of recurrent non-specific low back pain in adolescents? A cross-sectional descriptive study. *BMC Pediatrics*, 15: 203(7pp).

Cloete, L. and Ramugondo, E. 2015. "I drink": mothers' alcohol consumption as both individualised and imposed occupation. *South African Journal of Occupational Therapy*, 45(1): 34-40.

Cloete, T.L., Wilson, W.J., Petersen, L. and Kathard, H. 2015. Identifying a context-effective school hearing screening test: an emic/etic framework. *International Journal of Audiology*, 54: 605-612.

Corten, L., Jelsma, J.M. and Morrow, B. 2015. Chest physiotherapy in children with acute bacterial pneumonia. *South African Journal of Physiotherapy*, 71(1): 256(10pp).

- Crowley, T. and Mayers, P.M. 2015. Trends in task shifting in HIV treatment in Africa: effectiveness, challenges and acceptability to the health professions. *African Journal of Primary Health Care & Family Medicine*, 7(1): 807(9pp).
- Daire, J. and Khalil, D. 2015. Analysis of maternal and child health policies in Malawi: The methodological perspective. *Malawi Medical Journal*, 27(4): 135-139.
- Dambi, J., Jelsma, J.M. and Mlambo, T. 2015. Caring for a child with Cerebral Palsy: the experience of Zimbabwean mothers. *African Journal of Disability*, 4(1): 168(10pp).
- de Klerk, S., Buchanan, H.A. and Pretorius, B. 2015. Occupational therapy hand assessment practices: cause for concern? *South African Journal of Occupational Therapy*, 45(2): 43-50.
- Farhat, F., Masmoudi, K., Hsairi, I., Smits-Engelsman, B., Mchirgui, R., Triki, C. and Moalla, W. 2015. The effects of 8 weeks of motor skill training on cardiorespiratory fitness and endurance performance in children with developmental coordination disorder. *Applied Physiology Nutrition and Metabolism-Physiologie Appliquee Nutrition et Metabolisme*, 40: 1269-1278.
- Ferguson, G., Duysens, J. and Smits-Engelsman, B. 2015. Children with developmental coordination disorder are deficient in a visuo-manual tracking task requiring predictive control. *Neuroscience*, 286: 13-26.
- Ferguson, G., Naidoo, N. and Smits-Engelsman, B. 2015. Health promotion in a low-income primary school: children with and without DCD benefit, but differently. *Physical & Occupational Therapy in Pediatrics*, 35(2): 147-162.
- Ferguson, G., Wilson, P.H. and Smits-Engelsman, B. 2015. The influence of task paradigm on motor imagery ability in children with Developmental Coordination Disorder. *Human Movement Science*, 44: 81-90.
- Galvaan, R. 2015. The contextually situated nature of occupational choice: marginalised young adolescents' experiences in South Africa. *Journal of Occupational Science*, 22(1): 39-53.
- Galvaan, R., Peters, L. and Gretschel, P.J. 2015. Embracing an occupational perspective to promoting learning in context. *South African Journal of Higher Education*, 29(3): 281-293.
- Galvaan, R., Peters, L., Smith, T., Brittain, M., Menegaldo, A., Rautenbach, N. and Wilson-Poe, A. 2015. Employers' experiences of having a live-in domestic worker: insights into the relationship between privilege and occupational justice. *South African Journal of Occupational Therapy*, 45(1): 41-46.
- Gangji, N., Pascoe, M. and Smouse, M.R. 2015. Swahili speech development: preliminary normative data from typically developing pre-school children in Tanzania. *International Journal of Language & Communication Disorders*, 50(2): 151-164.
- Geuze, R.H., Schoemaker, M. and Smits-Engelsman, B. 2015. Clinical and research criteria for Developmental Coordination Disorder – should they be one and the same? *Current Developmental Disorders Reports*, 2(2): 127-130.
- Ghafari, N., Rogers, C., Petersen, L. and Singh, S.A. 2015. The occurrence of auditory dysfunction in children with TB receiving ototoxic medication at a TB hospital in South Africa. *International Journal of Pediatric Otorhinolaryngology*, 79(7): 1101-1105.
- Gimba, S.M. and Duma, S.E. 2015. Dearth of literature on barriers to provision of psychiatric nursing care in Nigeria: Findings from a literature review. *International Journal of Nursing and Midwifery*, 7(2): 16-20.
- Gimba, S.M. and Duma, S.E. 2015. Motivational factors that help in coping with barriers to provision of psychiatric nursing care: perspective of psychiatric nurses in a hospital setting in Nigeria. *Issues in Mental Health Nursing*, 36: 538-542.
- Giva, K. and Duma, S.E. 2015. Characteristics and critical success factors for implementing problem-based learning in a human resource-constrained country. *Curationis*, 38(1): 1283(11pp).
- Green, C., Hudson, K., Wicht, M., Willows, C. and Buchanan, H.A. 2015. The impact of two modules on first year occupational therapy students' knowledge and attitudes to the core constructs of occupation. *South African Journal of Occupational Therapy*, 45(1): 63-71.
- Gretschel, P.J., Ramugondo, E. and Galvaan, R. 2015. An introduction to cultural historical activity theory as a theoretical lens for understanding how occupational therapists design interventions for persons living in low-income conditions in South Africa. *South African Journal of Occupational Therapy*, 45(1): 51-55.
- Guajardo, A., Kronenberg, F. and Ramugondo, E. 2015. Southern occupational therapies: emerging identities, epistemologies and practices. *South African Journal of Occupational Therapy*, 45(1): 3-10.
- Jelsma, D., Ferguson, G., Smits-Engelsman, B.C.M. and Geuze, R.H. 2015. Short-term motor learning of dynamic balance control in children with probable developmental coordination disorder. *Research in Developmental Disabilities*, 38: 213-222.
- Jelsma, J.M. and Maart, S. 2015. Should additional domains be added to the EQ-5D health-related

- quality of life instrument for community-based studies? An analytical descriptive study. *Population Health Metrics*, 13: 13(11pp).
- Kathard, H., Pillay, S. and Pillay, M. 2015. A study of teacher-learner interactions: a continuum between monologic and dialogic interactions. *Language Speech and Hearing Services in Schools*, 46: 222-241.
- Kronenberg, F., Kathard, H., Rudman, D.L. and Ramugondo, E. 2015. Can Post-Apartheid South Africa be enabled to humanise and heal itself? *South African Journal of Occupational Therapy*, 45(1): 20-27.
- Kyriacos, U., Jelsma, J.M., James, M.F.M. and Jordan, S. 2015. Early warning scoring systems versus standard observations charts for wards in South Africa: a cluster randomized controlled trial. *Trials*, 16: 103(15pp).
- LeBlanc, A.G., Katzmarzyk, P.T., Barreira, T.V., Broyles, S.T., Chaput, J.-P., Church, T.S., Fogelholm, M., Harrington, D.M., Hu, G., Kuriyan, R., Kurpad, A., Lambert, E.V., Maher, C., Maia, J., Matsudo, V., Olds, T., Onywera, V.O., Sarmiento, O.L., Standage, M., Tudor-Locke, C., Zhao, P., Tremblay, M.S., Iscole Research Group (Uys, M., Sinyanya, N.A., Naidoo, N., Carstens, M.T. and April, M.) 2015. Correlates of total sedentary time and screen time in 9-11 year-old children around the world: The international study of childhood obesity, lifestyle and the environment. *PLoS One*, 10(6): e0129622 (20pp).
- Leonard, M.M. and Kyriacos, U. 2015. Student nurses' recognition of early signs of abnormal vital sign recordings. *Nurse Education Today*, 35(9): e11-e18.
- Lorenzo, T., Motau, J., Van der Merwe, T., van Rensburg, E.J. and Cramm, J.M. 2015. Community rehabilitation workers as catalysts for disability: inclusive youth development through service learning. *Development in Practice*, 25(1): 19-28.
- Lorenzo, T., van Pletzen, E. and Booyens, M. 2015. Determining the competences of community based workers for disability-inclusive development in rural areas of South Africa, Botswana and Malawi. *Rural and Remote Health*, 15(2): 2919 (14pp).
- Ockhuis, D. and Kyriacos, U. 2015. Renal unit practitioners knowledge, attitudes and practice regarding the safety of unfractionated heparin for chronic haemodialysis. *Curatoris*, 38(1): 1447(12pp).
- Ohajunwa, C., McKenzie, J. and Lorenzo, T. 2015. Enabling disability inclusive practices within the University of Cape Town curriculum: a case study. *African Journal of Disability*, 4(1): 157 (8pp).
- Peta, C., McKenzie, J. and Kathard, H. 2015. Voices from the periphery: a narrative study of the experiences of sexuality of disabled women in Zimbabwe. *Agenda*, 29(2): 66-76.
- Petersen, L. and Ramma, L. 2015. Screening for childhood hearing impairment in resource-constrained settings: opportunities and possibilities. *SAMJ South African Medical Journal*, 105(11): 901-902.
- Petersen, L. and Rogers, C. 2015. Aminoglycoside-induced hearing deficits - a review of cochlear ototoxicity. *South African Family Practice (Geneeskunde: The Medicine Journal)*, 57(2): 77-82.
- Pillay, M. and Kathard, H. 2015. Decolonizing health professionals education: audiology & speech therapy in South Africa. *African Journal of Rhetoric*, 7: 193-227.
- Ramugondo, E. 2015. Occupational consciousness. *Journal of Occupational Science*, 22(4): 488-501.
- Ramugondo, E. and Kronenberg, F. 2015. Explaining collective occupations from a human relations perspective: Bridging the individual-collective dichotomy. *Journal of Occupational Science*, 22(1): 3-16.
- Rule, S., Kahonde, C. and Lorenzo, T. 2015. When I grow up I would like to be: factors affecting career choice of community disability workers in Southern Africa. *International Journal of Disability Development and Education*, 62(5): 486-500.
- Schoemaker, M. and Smits-Engelsman, B. 2015. Is treating motor problems in DCD just a matter of practice and more practice? *Current Developmental Disorders Reports*, 2: 150-156.
- Sinanovic, E., Ramma, L., Vassall, A., Azevedo, V., Wilkinson, L., Ndjeka, N., McCarthy, K.M., Churchyard, G.J. and Cox, H. 2015. Impact of reduced hospitalisation on the cost of treatment for drug-resistant tuberculosis in South Africa. *International Journal of Tuberculosis and Lung Disease*, 19(2): 172-178.
- Singh, S.A., Booth, A., Choto, F., Gotlieb, J., Robertson, R., Morris, G., Stockley, N. and Mauff, K.A.L. 2015. New graduates' perceptions of preparedness to provide speech-language therapy services in general and dysphagia services in particular. *South African Journal of Communication Disorders*, 62(1): 110(8pp).
- Smits-Engelsman, B., Jelsma, L.D., Ferguson, G. and Geuze, R.H. 2015. Motor learning: an analysis of 100 trials of a ski slalom game in children with and without developmental coordination disorder. *PLoS One*, 10(10): e0140470(19 pp).
- Smits-Engelsman, B., Schoemaker, M., Delabastita, T., Hoskens, J. and Geuze, R.H. 2015. Diagnostic criteria for DCD: past and future. *Human Movement Science*, 42: 293-306.
- Tadyanemhandu, C. and Manie, S. 2015. Profile of patients and physiotherapy patterns in intensive care



units in public hospitals in Zimbabwe: a descriptive cross-sectional study. *BMC Anesthesiology*, 15: 136(9pp).

Wimpenny, K. and Lewis, L. 2015. Preparation for an uncertain world: professional agency and durability in the practice preparation of mental health in occupational therapy. *South African Journal of Occupational Therapy*, 45(2): 22-28.

### **Peer-reviewed published conference proceedings**

Pascoe, M., le Roux, J., Olebeng, M., Danvers, E., de Jager, A., Esterhuizen, N., Naidoo, C., Reynders, J., Senior, S. and van der Merwe, A. 2015. Three-year-old children acquiring South African English in Cape Town. In E. Babatsouli and D. Ingram (eds), *Proceedings of International Symposium on Monolingual and Bilingual Speech*, 7-10 September 2015, Chania, Greece. Chania, Greece: Institute of Monolingual and Bilingual Speech. ISBN 9786188235106.

# Department of Human Biology

## Research Report 2015

**Head of Department: Professor Malcolm Collins**

## Departmental Profile

The Department of Human Biology within the University of Cape Town's Faculty of Health Sciences brings together several scientific and clinical disciplines. These disciplines are divided into six Divisions, namely Biomedical Engineering, Cell Biology, Clinical Anatomy and Biological Anthropology, Exercise Science and Sports Medicine, Human Nutrition and Physiological Sciences. The divisions are located within the Anatomy Building on the Faculty of Health Sciences Campus except for the Division of Exercise Science and Sports Medicine which is situated at the Sports Science Institute of South Africa (SSISA) in Newlands. The department conducts research in the various fields of the academic disciplines involving a large cohort of postgraduate students. The department is home to the Medical Imaging Research Unit and is part of the multi-institutional Cape Universities Body Imaging Centre site (CUBIC-UCT) based on the premises of Groote Schuur Hospital. The department also hosts the modern interfaculty Confocal & Light Microscope Imaging Facility that enables research involving light and fluorescence microscopy. The facility specialises in advanced fluorescence imaging acquisition and image analysis supported by computer workstations equipped with state of the art software.

## DIVISION OF BIOMEDICAL ENGINEERING

**Head of Division: Associate Professor Thomas Franz**

Prof Tania Douglas was awarded a DST/NRF South African Research Chair in Biomedical Engineering & Innovation. She was also appointed to the Committee on Scholarly Publishing in South Africa, a standing committee of the Academy of Science for South Africa. A/Prof Thomas Franz was appointed as Visiting Fellow at the University of Southampton. He facilitated the participation of the Division of Biomedical Engineering in two five-year NICHE projects on research capacity building in biomedical

engineering at Addis Ababa University and Jimma University in Ethiopia. Dr Sudesh Sivarasu was awarded the 3<sup>rd</sup> prize in the Emerging Medical Innovation Valuation Competition at the Design of Medical Devices Conference, Minneapolis, USA, for reScribe™. This UCT patent pending technology using a hand exoskeleton for hand writing rehabilitation in stroke patients was jointly developed with Yasheen Brijlal and Dr Lester John. Dr Sivarasu was also a finalist of the Philips Innovations Fellow competition and has also filed international patents. The new 3T Siemens Skyra Magnetic Resonance Imaging (MRI) scanner at the Cape Universities Body Imaging Centre at UCT (CUBIC-UCT) was launched on 31 July 2015. This facility, which is a core facility in the Faculty of Health Sciences and the only research-dedicated MRI scanner on the continent, presents a collaboration between UCT, Stellenbosch University, the SAMRC and Siemens. The facility was funded through grants from the Technology Innovation Agency, the National Research Foundation, the Cancer Research Trust and the University of Cape Town. A new collaboration was initiated between Drs Jankiewicz and Meintjes with A/Prof Peter Torre from the School of Speech, Language and Hearing Sciences at San Diego State University to examine effects of HIV/ART on the neural circuitry involved in hearing. Prof Ernesta Meintjes and Drs Holmes and Taylor secured a number of grants from the NIH and the NRF, and Dr Alhamud as awarded an NRF Thuthuka grant. The MRI research group including Drs Alhamud, Robertson, Meintjes, Holmes and Taylor hosted a symposium "Introduction to Advanced Magnetic Resonance Neuroimaging Methods" at the 12<sup>th</sup> International Meeting of the Society of Neuroscientists of Africa in Durban. Staff and students within the Division presented their work at several national and international meetings. Dr Alhamud received a Magna Cum Laude Merit Award at the ISMRM for his presentation and a paper by PhD student Jia Fan and co-authors was featured as one of the top articles by the SAMRC. Dr Mutsvangwa's journal article on automated statistical shape modelling was selected as featured paper in the IEEE Transactions on Biomedical Engineering. Several students and staff also visited to develop and strengthen collaborations with international Institutions. Dr Wumi Inyang was awarded a prestigious 'Faculty for the Future' Postdoctoral Fellowship of the Schlumberger Foundation. The division hosted several international visitors including Prof T Lazar Mathew from the PSG Institute of Advanced Studies in India, Prof Valérie Burdin and Dr Bhushan Borotikar from Télécom Bretagne, Drs Robert Cox, Gang Chen and Ziad Saad from the NIH, Assoc Prof Richard Edden from Johns Hopkins University, Prof André van der Kouwe from Harvard Medical School, Assoc Prof George Limbert from

the University of Southampton, and Prof Michiel Postema from the University of Bergen.

## **DIVISION OF CELL BIOLOGY**

### **Head of Division: Professor Susan Kidson**

The Division of Cell Biology includes five academic staff members (Prof Susan Kidson (Head of Division), A/Prof Sharon Prince, A/Prof Lester Davids (promoted to level of Associate Professor in 2014) and Drs Robea Ballo and Liz van der Merwe), three technical staff (Ms Morea Petersen, Mrs Desiree Bowers and Ms Sandra Jordaan), 6 postdoctoral fellows, and about 45 postgraduate students. Areas of expertise in the division include cancer biology, drug development, biology of the skin, stem cell biology, development of the eye and eye diseases, pancreas regeneration and imaging. The division continues to attract honours students from across the country, and this year that name of the honours course was changed from Honours in Cell Biology and Honours in Medical Cell Biology. Twelve research papers were published and over 10 papers presented at international and local conferences including the AORTIC roadmap to Cancer Control in Africa (A/Prof Prince); Ass Prof Prince was the invited/keynote speaker for a number of conferences including the Pathology Research and Development Congress and CANSA Research in Action. Dr Davids was an invited speaker at the South African Dermatology Congress and South African Vitiligo Society and the South African Burns Congress. Prof Kidson was an invited speaker at the annual meeting of the SA Society of Neurosurgeons, and at the Stem Cell Bioethics and Law meeting in Pretoria.

The division and its students garnered a number of awards: A/Prof Davids received the SA-UK Newton Mobility award for collaboration with Oxford. Postdoctoral fellow Dr Deeya Ballim (from the Prince lab) was awarded the prestigious Marie Skłodowska-Curie Individual Fellowship for postdoctoral studies at the University of Bath where she is studying Waardenburg-Shah syndrome using a zebrafish model. Other student awards include Ms Tarryn Willmer and Ms Jenna Bloch, awarded first and second prize respectively at the annual departmental research day, and Dr Melissa Nel who was awarded first prize at the South African Society of Human Genetics. Drs Nancy Laguette, Tarryn Willmer and Maribanyana Lebeko graduated with PhDs, and Mr Fleury Nsole Biteghe with his MSc degree. Staff members were involved in the organization or participation of various workshops, including the Iran-South African Joint Workshop on Biotechnology (A/Prof Prince), a workshop in Sheffield to launch the International Woman's network, and running

a writing skill workshop for SAWISE. (Dr van der Merwe), Staff and students participated in a variety of outreach activities, including radio interviews on specialist topics and school visits near and far, including Malmesbury, Clanwilliam) (Drs van der Merwe and Davids), as well as hosting of school learners Science in our Schools (SOS) programme (Dr Ballo). Dr Ballo co-authored an article in THE CONVERSATION on South African Laws governing stem cell research and gene editing. The division hosted a number of local and international visitors and students, including Dr Farisai Chidzondo from the Department of Biochemistry, University of Zimbabwe and PhD students Ms Ania Szmyf-Potapczuk (UWC), Ms Tania Davids (US), Ms Zenzele Silla (UKZN) Mr M Harishanker (India) and MSc student Ms Eliza Mari Maliepaard (Netherlands).

## **DIVISION OF CLINICAL ANATOMY AND BIOLOGICAL ANTHROPOLOGY**

### **Head of Division: Professor Graham Louw**

For the Division of Clinical Anatomy and Biological Anthropology, 2015 was a year with several postgraduate student graduations, research presented at congress, obtaining some large research grants, among other research activities. Emeritus Prof Alan Morris was awarded NRF rated research support, a Leverhulme Visiting Professor Scholarship (which was used at the University of Cambridge) and a Humanitec Digitisation Grant. He made several short research visits to the University of Edinburgh, John Moores University Liverpool, Royal College of Surgeons London, The Natural History Museum London, Trinity College Dublin, University College Cork, and Royal College of Surgeons of Ireland, Dublin. Through his research travels he started a new collaborative project with Dr Jessica Thompson of Emory University, Atlanta, and Prof Ron Pinhasi of University College Dublin on "Revealing the cultural and genetic identities of ancestral central African populations through archaeology and ancient DNA in the Malawi highlands". Prof Graham Louw, Dr Geney Gunston and Dr Jacqui Friedling went to the Anatomical Society of Southern Africa conference in Parys, along with several postgraduate students Francesca du Toit, Devin Finaughty, Marlie Greeff, Belinda Speed. Dr Gunston also attended the South African National First Year Experience and Students in Transition conference in Johannesburg. Dr Gunston also had an invited research visitor Dr Catherine Maud, a visiting lecturer from Deakin University Medical School, Geelong, Australia. Dr Maud is a psychiatrist, whose current research

explores epigenetics and the role of oxytocin in perinatal biological mechanisms which have long-term implications for health. Dr Jacqui Friedling was awarded a NRF Thuthuka research grant and started a new national collaboration with the WITS Forensics Division, University of Witwatersrand. Dr Kavita Lakha obtained her PhD thesis entitled "Sequential changes in epiphyseal union in South African children between the ages of 6 up to 32 years using full body LODOX scans". The following students completed their MSc dissertations, Carrie Clarke, Francesca du Toit, and Steven Randall, and the following students completed their BSc Honours, Laura Benetton, Chandra Longden-Thurgood, and Elizabeth Potter.

## **DIVISION OF EXERCISE SCIENCE AND SPORTS MEDICINE**

### **Head of Division: Professor Estelle (Vicki) Lambert**

Prof Estelle Lambert was awarded a grant from the NRF-DST Centre of Excellence in Food Security for a study entitled STOP-SA (Slow, Stop or Stem the Tide of Obesity in the People of South Africa) Neighborhood Food Environment. Dr Cathy Draper received the Newton Advanced Fellowship (with co-applicant Prof Gaia Scerif, University of Oxford) and a grant from the DST/NRF Centre of Excellence in Human Development Opportunity. Several other staff within the Division received research or travel grants from national agencies. Dr Swart and Prof Mike Lambert were awarded the research and sports medicine contract for the Old Mutual Two Oceans Marathon for a period of 5 years. Prof Mike Lambert received the merit award from SASMA for "exceptional contribution as editor-in-chief of the South African journal of Sports Medicine to sports and exercise medicine in South Africa. Several postgraduate students within the Division also received awards at national and international conferences.

The Division of Exercise Science and Sports Medicine enjoys active and productive collaborations with numerous national and international research groups. Members of ESSM also participated in an intra-Africa Research Collaboration, under the auspices of the African Physical Activity Network and Prof James Sallis, Active Living Research, University of San Diego. For the Western Cape on Wellness (WoW!) health promotion initiative, a research and training collaboration was developed under the combined leadership of Professor Estelle Lambert, Dr Susan Bassett from the University of the Western Cape and Kasha Dickie from the University of Stellenbosch. Additional key collaborations were Prof Mike

Lambert, with Dr Vincent Gouttebarga – for a World Rugby-funded study on professional rugby player welfare. Related to this, Dr Sharief Hendricks started collaboration with Glasgow warriors (Rugby team) head coach Stuart Yale.

Perhaps one of the seminal events for our division was the movement towards the development of a functionally-merged entity with the Sports Science Institute of South Africa. While the fruits of this merger have not yet been translated into research outputs in all areas, there are excellent examples of collaborative research outputs in rugby science, orthopaedics and sports medicine, and health promotion programme evaluation. This transition has also been noteworthy in that we have a change in staff complement with the appointment of two senior lecturers, Dr Yumna Albertus and Dr Jeroen Swart.

ESSM hosted many international and national visitors including Prof Greet Cardon, Ghent University, Scientific Chair for the Annual Meeting of the International Society of Behavioural Nutrition and Physical Activity which is being held in June 2016 in Cape Town, Dr Trina Hinkley, Deakin University, Prof Evert Verhagen, Willem Van Mechelen, Prof Joe Baker, York University, Canada, Dr Cordelia Carter, Yale University, Dr Benjamin Jones and Dr Kevin Till, Leeds Beckett University, Prof Andrew Jones, Exeter University, and Stuart Yale, Glasgow Warriors.

## **DIVISION OF HUMAN NUTRITION**

### **Head of Division: Associate Professor Marjanne Senekal**

Over the past year the Nutrition Division successfully organized and hosted a Continuing Professional Education (CPD) event for nutrition health professionals on “Obesity throughout the life cycle” to earn CPD points and update knowledge on obesity at different time periods in the life cycle. Division staff members further reviewed and provided input in the document, “Scope and competencies of the new nutrition professional” for the Health Professions Council of South Africa. Dr Janetta Harbron, Ms Sharmilah Booley and Ms Marieke Theron were part of a team that developed and provided content and scientific input on the South African Norms and Standards for Dietitians policy document commissioned by the Director of Nutrition, of the National Department of Health. Dr Harbron was a member of the committee that organized a breast feeding seminar entitled “Breastfeeding at work, the role of the workplace in the first 1000 days”, which was co-hosted by the Western Cape Department of Health during National

breastfeeding week (1-7 August 2015). Furthermore, Dr Janetta Harbron delivered a presentation at the “Breastfeeding Seminar on Personal Experiences and Practical Information” on how to successfully express and continue breastfeeding when returning to work. Prof Marjanne Senekal was elected as chair of the scientific committee and Dr Harbron as a member of this committee for the 2016 National Nutrition Congress which will take place in Cape Town in September 2016. Ms Sharmilah Booley was elected to serve on the local organising committee for the International Society of Behavioural Nutrition and Physical Activity (ISBNPA) conference, an annual international conference to be held in Cape Town 8-11 June 2016. She will be chairing an oral session and conducting a pre-conference workshop together with Dr Harbron and other members of the Division. Ms Booley, Ms Ebrahim and Ms Baheya Najaar attended the “Developmental Origins of Health and Disease” (DOHAD) conference held in Cape Town 8-11 November 2015. Ms Booley is also a member of research Collaboration with Wits, CDIA, UCT, University of Montreal: IINDIAGO (Integrated Intervention for Diabetes Risk after Gestational Diabetes (an integrated health system intervention aimed at reducing type 2 diabetes risk in disadvantaged women after gestational diabetes in South Africa). Ms Booley was awarded a NRF Thuthuka grant for use in 2016 and Ms Najaar received a UCT research start up grant. Ms Zarina Ebrahim served on the committee updating the Renal National Nutrition Policy Document. She also provided input to the “South African Norms and Standards for Dietitians” policy document with specific reference to renal diets. Ms Ebrahim presented a poster at the International Renal Congress March 2015 on “The Nutritional Status Assessment of Renal Transplant patients attending the Renal Transplant Clinic at GSH.” Ms Najaar attended the seminar “Breastfeeding at work, the role of the workplace in the first 1000 days”. Ms Najaar served on a health committee task team which is a collaboration of academia, NGOs and members of the provincial Department of Health where scientific information regarding health information and resources are developed for all stages of the lifecycle. Ms Marieke Theron worked with the Department of Health on the “Norms and Standards of Dietitians in SA” specifically with respect to the food service management component. She was also asked to be a member of a special task team working on the “therapeutic diet section” of the Norms and Standards document. This is a separate group that will liaise to finalise that section. Ms Najaar and Dr Steyn both received ad hominem promotions to senior clinical educator and to associate professor, respectively. In 2015, 12 honours students, 1 MSc (Med) (Celeste de Bruyn) and 1 PhD graduate (Suna Kassier) graduated in the Division.

## DIVISION OF PHYSIOLOGICAL SCIENCES

### Head of Division: Associate Professor Dirk Lang

In the Division of Physiological Sciences, Neurosciences have received a major boost in 2015: The newly founded International Brain Research Organization (IBRO) African Training Center for Advanced Neuroscience at UCT held its inaugural, and hugely successful, Advanced School on Epilepsy in December 2015. Major contributors to this IBRO School in the division were Drs Joseph Raimondo, Vinogran Naidoo and Prof Dirk Lang, who was appointed Local Coordinator of the IBRO Training Center at UCT. Emeritus Prof Vivienne Russell was appointed Chairperson of the IBRO Local Scientific Committee, and the article published as tribute to her contributions to Neuroscience (Journal of Neuroscience Methods 252) and her invited co-authorship on an article published in Nature ("Regional research priorities in brain and nervous system disorders", Nature 527:S198-S206) are just some of her accolades in the past year. Prof Dirk Lang co-ordinated and led an international funding initiative for the creation of a world-class micro-imaging facility in the Faculty of Health Sciences, which has received a total amount exceeding R25 million from the NRF, the Wellcome Trust and the Wolfson Foundation. Dr Joseph Raimondo was awarded a Royal Society Newton Advanced Fellowship as part of a collaboration with Oxford University. He led a successful NRF-NEP application for a new electrophysiology and multi-photon imaging platform for the department, in addition he has been awarded funding as part of a collaboration with the Blue Brain Project in Lausanne Switzerland. Dr Raimondo also held a Royal Society funded 3-day neuroscience seminar featuring leading UK neuroscientists and their local counterparts in March 2015. Dr Vinogran Naidoo received a Research Development grant as a participant in the Emerging Researcher Programme at UCT and set up an international collaboration with Dr Alex Makriyannis (Northeastern University, USA) and Dr Ben Bahr (University of North Carolina, USA) investigating neuroprotective strategies against epilepsy. Several members of the Division (Drs Vinogran Naidoo, Joseph Raimondo and Prof Dirk Lang) became involved with designing a strategy for the newly established Neuroscience Institute at UCT. Academics and postgrad students in the Division published in internationally respected scientific journals and presented their work at local (Physiological Society of SA, SONA) and international conferences (Annual Meeting of the Society for Neuroscience) and workshops. As every year, the Division of Physiological Sciences made a substantial

contribution towards the department's teaching activities at undergraduate and postgraduate level. The intake and successful graduation of students in the Physiology Honours programme (convened by Prof Dirk Lang) reached an all-time high, and several MSc and PhD students graduated in 2015. Members of the Division also contributed to diverse outreach activities, e.g. visits of school classes to the department, work shadowing and career expos.

## Departmental Statistics

### Permanent and Long-Term Contract Staff

Professors	7
Associate Professors	7
Senior Lecturers	15
Lecturers (including part-time)	8
Senior Clinical Educators	1
Clinical Educators	4
Research Staff	12
Technical and Support Staff	30
Admin and Clerical Staff	12
<b>Total</b>	<b>96</b>

### Emeritus, Honorary and Adjunct Staff

Emeritus Professors	5
Honorary Professors	6
Honorary Associate Professors	2
Honorary Senior Lecturers	3
Honorary Lecturers	4
Adjunct Associate Professors	1
<b>Total</b>	<b>21</b>

## Students and Postdoctoral Fellows

Postdoctoral Fellows	27
Doctoral	86
Masters	87
MPhil	14
Honours	82
PG Diploma	17
<b>Total</b>	<b>267</b>

## Research Fields and Staff

### Permanent and Long-Term Contract Staff

#### PROFESSOR MALCOLM COLLINS

Head of Department: Molecular and genetic mechanisms, Musculoskeletal soft tissue injuries

#### PROFESSOR TANIA DOUGLAS

Director, Medical Imaging Research Unit; Biomedical engineering, image processing, health innovation

#### PROFESSOR SUE KIDSON

Head, Division of Cell Biology; Developmental biology; melanocytes and hypopigmentary disorders; eye development and glaucoma

#### PROFESSOR VICKI ESTELLE LAMBERT

Head, Division of Exercise Science and Sports Medicine; Physical activity and metabolism

#### PROFESSOR MIKE LAMBERT

Sports performance, training load, muscle adaptation, rugby science

#### PROFESSOR GRAHAM J LOUW

Head, Division of Clinical Anatomy and Biological Anthropology; Human growth; medical education; skeletal analysis

#### PROFESSOR ERNESTA MEINTJES

SARChI Chair in Brain Imaging; Director, Cape Universities Body Imaging Centre (CUBIC-UCT). Magnetic resonance imaging

#### ASSOCIATE PROFESSOR ANDREW BOSCH

Effects of pre-exercise diet and supplements during exercise, Optimisation of performance of road runners

#### ASSOCIATE PROFESSOR LESTER M DAVIDS

Senior Lecturer; Redox and antioxidant biology; skin cancer, pigmentary disorders of the skin, vitiligo, hair follicle biology

#### ASSOCIATE PROFESSOR THOMAS FRANZ

Head, Division of Biomedical Engineering; Cell and tissue mechanobiology, computational and applied biomechanics, cardiovascular diseases

#### ASSOCIATE PROFESSOR DIRK M LANG

Head, Division of Physiological Sciences; Nervous system development; axon growth and regeneration; advanced light microscopy

#### ASSOCIATE PROFESSOR EDWARD OJUKA

Role of CaMK in GLUT-4 regulation, NRF-1 and GLUT-4 regulation, Role of calcium in the regulation of mitochondria

#### ASSOCIATE PROFESSOR SHARON PRINCE

Cell and molecular biology of cancer and the identification of novel targets for anti-cancer drugs, with special focus on the T-box transcription factors Tbx2 and Tbx3.

#### ASSOCIATE PROFESSOR MARJANNE SENEKAL

Head: Division of Human Nutrition; Weight management and health interventions, dietary assessment, nutritional genomics

#### DR YUMNA ALBERTUS

Senior Lecturer; Effect of rehabilitation on neuromuscular and motor control in spinal cord injuries and chronic disease

#### DR KISHOR BUGARITH

Senior Lecturer; Physiology, neurobiology of stress, neurobiology of food intake

#### DR CATHERINE DRAPER

Senior Lecturer; Development and evaluation of community-based health promotion interventions, with a particular focus on physical activity, Physical activity, gross motor skills, school readiness and executive function in early childhood

#### DR GENEY GUNSTON

Senior Lecturer; Gross anatomy; clinical anatomy; medical education

#### DR ASFREE GWANYANYA

Senior Lecturer; Cardiac pathophysiology, hypertrophy, ion channels

#### DR JANETTA HARBRON

Senior Lecturer; Weight management interventions for obesity and other CDLs, Diabetes mellitus, Nutritional genomics; Sports nutrition

#### DR LESTER JOHN

Senior Lecturer; Electromyography, electroencephalography, brain-computer interfacing, medical electronics & devices

#### DR VINOGRAN NAIDOO

Senior Lecturer; Strategies in therapy of epilepsy

**MR MLADEN POLUTA**

Senior Lecturer; Director, Healthcare Technology Management; Airborne infection control

**DR DELVA SHAMLEY**

Senior Lecturer; Upper limb morbidity in breast cancer, molecular effects of adjuvant therapies in cancer

**DR SUDESH SIVARASU**

Senior Lecturer; Biomechanics, biomechatronics, medical devices & rehabilitation engineering

**DR CHARLES P SLATER**

Senior Lecturer; Anatomy, medical education

**DR NELIA STEYN**

Senior lecturer; Non-communicable diseases and their risk factors; food security; research methodology

**DR JEROEN SWART**

Senior Lecturer; Injury prevention, cycling biomechanics, exercise and fatigue

**DR LIZ VAN DER MERWE**

Senior Lecturer; Ocular development and regeneration, vascular biology, pancreatic islet regeneration, 3-D microscopic image reconstruction

**DR CHRISTOPHER WARTON**

Senior Lecturer; Medical education, teaching materials, MRI analysis

**MS ELMI BADENHORST**

Lecturer; medical education, under-preparedness and academic performance

**DR ROBEA BALLO**

Lecturer; Cell biology and genetics, Genetics of vitiligo

**MS SHARMILAH BOOLEY**

Lecturer; HIV/AIDS and quality of life; nutrition related behaviour change interventions for prevention and management of chronic diseases of lifestyle (school and work-place based)

**MS LIEZL CORNELISSEN**

Lecturer; Food science

**MS CATHERINE DAY**

Lecturer; Weight management, child development: Foetal alcohol syndrome, Adiponectin and its relationship with obesity, type 2 diabetes and cardiovascular disease

**DR JACQUI FRIEDLING**

Lecturer; Skeletal biology; physical anthropology, forensic anthropology

**DR JACOLENE KROFF**

Lecturer; Physical activity and health; Validity, reproducibility and quality control of human energy

expenditure measurements and body composition measurements

**DR TINASHE MUTSVANGWA**

Lecturer, 3D image reconstruction, statistical shape modelling

**MR STEFAN STEINER**

Lecturer; Biomechanics, biosciences

**MRS MARIEKE THERON**

Lecturer; Food service management, nutrition of vulnerable people

**MS ZARINA EBRAHIM**

Senior Clinical Educator; Renal nutrition

**MS FIONA HERRMANN**

Senior Clinical Educator; Risks for obesity development in SA communities, nutrition in palliative oncology, malnutrition in hospitalized patients

**MS FATIMA HOUSEN**

Clinical Educator; Nutrition related behaviour change interventions for prevention and management of chronic diseases of lifestyle in adults

**MS KATHRYN MANNING**

Clinical Educator; Chronic diseases of lifestyle

**MS BAHEYA NAJAAR**

Clinical Educator; Community nutrition, infant and young child feeding

**MS KERRY SEXTON**

Clinical Educator; Paediatric nutrition

**Emeritus, Honorary and Adjunct Staff****EMERITUS PROFESSOR LAURISTON KELLAWAY**

Models of neuroinflammation, stress and brain function, in vivo and in vitro visual cortical mechanisms

**EMERITUS PROFESSOR ALAN G MORRIS**

Human evolution; forensic anthropology, skeletal biology of early peoples in southern Africa; history of physical anthropology

**EMERITUS PROFESSOR TIMOTHY NOAKES**

Fluid and exercise, brain regulation of exercise performance, nutrition and health

**EMERITUS PROFESSOR VIVIENNE RUSSELL**

Neurophysiology: Development, stress, exercise and vulnerability to neuronal injury; Attention deficit hyperactivity disorder; Depression

**EMERITUS PROFESSOR CHRISTOPHER (KIT) VAUGHAN**

Mammography

**PROFESSOR MATTHEW GLUCKSBERG**

Honorary Professor; Biomedical engineering, respiratory physiology

**PROFESSOR JOSEPH JACOBSON**

Honorary Professor; Child development

**PROFESSOR SANDRA JACOBSON**

Honorary Professor; Child development

**PROFESSOR DAVID KELSO**

Honorary Professor; Low-cost diagnostics for infectious diseases in resource-poor environments

**PROFESSOR ANURAG MAIRAL**

Honorary Professor; Biodesign, health innovation, global healthcare

**PROFESSOR WILLEM VAN MECHELEN**

Honorary Professor; Public health and sports injuries

**ASSOCIATE PROFESSOR JULIA GOEDECKE**

Honorary Associate Professor; Public health and obesity research

**ASSOCIATE PROFESSOR GEORGES LIMBERT**

Honorary Associate Professor; Skin mechanics, tissue regeneration

**ASSOCIATE PROFESSOR WILLEM VAN DER MERWE**

Adjunct Associate Professor: Orthopaedic research

**DR LISA MICKLESFIELD**

Honorary Senior Lecturer; Public health and early childhood development

**DR BRUCE SPOTTISWOODE**

Honorary Senior Lecturer; Magnetic resonance imaging

**PROFESSOR EVERT VERHAGEN**

Honorary Senior Lecturer; Sports injury research

**DR JANINE GRAY**

Honorary Lecturer; Biomechanics and injuries research

**DR CLINT REDHEAD**

Honorary Lecturer; Rugby research, injury management

**DR WAYNE VILJOEN**

Honorary Lecturer; Rugby research, injury management

**Research and Scientific Officers and Research Associates****ASSOCIATE PROFESSOR ALISON SEPTEMBER**

Chief Research Officer; Identification of the genetic risk factors underlying soft tissue injury, elucidation of risk factors underpinning both injury and recovery of sports concussion

**DR TERTIUS KOHN**

Senior Research Officer; Skeletal muscle biochemistry of exercise adaptation, muscle fatigue and weakness

**DR MICHAEL POSTHUMUS**

Senior Research Officer; Genetics applied to performance and injuries, Sports orthopaedic research

**DR DALE RAE**

Senior Research Officer; Circadian rhythms and performance

**DR LAURIE RAUCH**

Senior Research Officer: Brain activity and cognitive stress

**DR ALKATHAFI ALHAMUD**

Research Officer; Magnetic resonance imaging

**DR MARCIN JANKIEWICZ**

Research Officer; Magnetic resonance imaging

**DR DESHNI KESWELL**

Research Officer; NRF Career Fellow; Molecular and cellular aspects of obesity and type 2 diabetes

**DR JOSEPH RAIMONDO**

Research Officer; Cellular neuroscience, inhibitory synaptic transmission, ion dynamics, epilepsy, neurocysticercosis

**DR FRANCES ROBERTSON**

Research Officer; Neuroimaging: morphometry, fMRI and MRS techniques; neurodevelopment; prenatal alcohol exposure; HIV and antiretroviral treatment

**DR JAMES SMITH**

Research Officer; NRF Career Fellow; Diet, health, metabolism and exercise performance

**MS NAFEESAH KARRIEM**

Research Radiographer, Low-dose x-ray imaging

**Postdoctoral Fellows****DR TAMER ABDALRAHMAN**

Modelling of cellular and peri-cellular mechanics in myocardial infarcts

**DR OLAWALE AJUWON**

Antioxidant response and pigmentation in hypericin-photodynamic therapy induced cell death resistance in melanoma

**DR REYNA DEEYA BALLIM**

Molecular Biology, Cancer: Identification of target genes of the transcription factor TBX2 which mediate its pro-proliferative activities in cancer and the elucidation of its crystal structure with a view to designing drugs that inhibit TBX2's oncogenic function



**DR NAILAH CONRAD**

Health innovation

**DR JAMES BROWN**

Injury prevention, catastrophic injuries, concussion, implementation, program evaluation, behaviour change

**DR MARILIZE BURGER**

Occupational injuries, carpal tunnel syndrome, upper limb disorders, tendinopathy, tendon and ligament injuries, genetic risk factors

**DR KYLIE DE JAGER**

Validation of non-invasive deep muscle EMG methods against invasive EMG techniques; Investigating the function of the popliteus muscle; Medical Device Development in South Africa; Network Analysis of Sectoral Collaboration; Automated Fluorescence Microscope for Tuberculosis Detection

**DR RONALD DENDERE**

Statistical modelling for 3D reconstruction of the proximal femur from 2D dual-energy X-ray images

**DR GAURANG P DESHPANDE**

Expression, function and cell biology of FAM111B, a novel protein associated with multi-system fibrosis

**DR LINDIE DU PLESSIS**

Effect of  $\mu$ -opioids on the perception of anger, joy and fear in subjects who experienced early childhood trauma

**DR JIA FAN**

Effect of prenatal alcohol exposure on brain networks and connectivity.

**DR SHARIEF HENDRICKS**

Skill acquisition, performance, injury prevention, decision-making, motor control, technique analysis, biomechanics, performance analysis, long term player development, science visualization and communication

**DR MARTHA HOLMES**

Neuroimaging; neurodevelopment; HIV and antiretroviral treatment

**DR OMOWUMI INYANG**

Anatomical shoulder implant design

**DR SERAH KIMANI**

Molecular Biology, Cancer: Towards rational design of inhibitors targeting oncogenic transcription factors, TBX2 and TBX3

**DR MARY-JESSICA NANCY LAGUETTE**

Gene regulation, Genetic risk factors, Molecular mechanisms underlying soft tissue injuries

**DR AKEEM LAWAL**

Role of extracts of fermented rooibos tea (*aspalathus linearis*) induction of NQO1 expression in the oxidative and proinflammatory effects of diesel exhaust particles in systemic and vascular cells

**DR GERALD MAARMAN**

Cardiovascular Diseases (Cardiac failure, Hypertensive Cardiomyopathy, Right Ventricular Failure, Ischemia-Reperfusion Injury); The role of fructose in skeletal muscle-mitochondrial dysfunction and insulin resistance; Effects of long-term high carbohydrate/high fat diets on the heart

**DR HLENGIWE PRETTY MADLALA**

Carbohydrate metabolism, Diabetes; Kidney and cardiovascular function; Drug discovery / Indigenous medicine; Physiological signalling pathways as targets for therapeutic interventions

**DR AMY MENDHAM**

Mechanisms underlying insulin resistance in black South African women: lessons from an exercise intervention

**DR MALEBOGO NGOEPE**

Hybrid multiscale modelling in cardiovascular diseases and therapies

**DR JADE PERES**

Molecular Biology, Cancer: Regulation of TBX3 by the AKT signalling pathway and miRNAs in melanoma progression

**DR FRANCES ROBERTSON**

Neuroimaging: morphometry, fMRI and MRS techniques; neurodevelopment; prenatal alcohol exposure; HIV and antiretroviral treatment

**DR MAZIN S SIRRY**

Modelling of ventricular, myocardial and injectate mechanics from organ to sub-tissue scale

**DR NICHOLAS TAM**

Biomechanics of sport and health, injury prevention, sports performance, exercise physiology

**DR PAUL TAYLOR**

Neuroimaging; fMRI and DTI techniques, neurodevelopment; prenatal alcohol exposure; HIV and antiretroviral treatment

**DR MONIKA UYS**

Slow, stop or stem the tide of obesity in the people of South Africa (STOP-SA): Neighbourhood food environment

**DR LAUREN WATSON**

Stem cell model for spinocerebellar ataxia

## Contact Details

Postal Address: Department of Human Biology,  
Health Sciences Faculty, Observatory, 7925, South  
Africa

Telephone: +27 21 406 6235

Fax: +27 21 448 7226

Email: [malcolm.collins@uct.ac.za](mailto:malcolm.collins@uct.ac.za)

Website: <http://www.humanbiology.uct.ac.za>

## RESEARCH OUTPUT

### Authored books

Vaughan, C.L. 2015. On the Shoulders of Oldenburg: A Biography of the Academic Rating System in South Africa. 324pp. South Africa: National Research Foundation. ISBN 978186868112.

### Chapters in books

Hendricks, S. 2015. Skill testing for rugby. In K. Till and B. Jones (eds), *The Science of Sport: Rugby*, pp. 113-122. Ramsbury, Marborough: The Crowood Press. ISBN 9781785001062.

Olawale, O., Marnewick, J.L. and Davids, L.M. 2015. Rooibos (*Aspalathus linearis*) and its major flavonoids potential against oxidative stress-induced conditions. In S.J.T. Gowder (ed), *Basic Principles and Clinical Significance of Oxidative Stress*, pp. 171-218. 1. Croatia: Intech. ISBN 9789535122005.

### Articles in peer-reviewed journals

Alhamud, A., Taylor, P., Laughton, B., van der Kouwe, A.J.W. and Meintjes, E.M. 2015. Motion artifact reduction in pediatric diffusion tensor imaging using fast prospective correction. *Journal of Magnetic Resonance Imaging*, 41: 1353-1364.

Aliwaini, S., Peres, J., Kroger, W., Blanckenberg, A., Mare, J., Edkins, A.L., Mapolie, S.F. and Prince, S. 2015. The palladacycle, AJ-5, exhibits anti-tumour and anti-cancer stem cell activity in breast cancer cells. *Cancer Letters*, 357: 206-218.

Andronikou, S.A., Ackermann, C., Laughton, B., Cotton, M., Tomazos, N., Spottiswoode, B., Mauff, K. and Pettifor, J.M. 2015. Corpus callosum thickness on mid-sagittal MRI as a marker of brain volume: a pilot study in children with HIV-related brain disease and controls. *Pediatric Radiology*, 45: 1016-1025.

Atiase, Y., Farni, K., Plange-Rhule, J., Luke, A., Bovet, P., Forrester, T.E., Lambert, E.V., Levitt, N., Kliethermes, S., Cao, G., Durazo-Arvizu, R.A., Cooper,

R.S. and Dugas, L. 2015. A comparison of indices of glucose metabolism in five black populations: data from modeling the epidemiologic transition study (METS). *BMC Public Health*, 15: 895(10pp).

Badenhorst, E.S., Mamede, S., Schmidt, H. and Hartman, N. 2015. Exploring lecturers' views of first-year health science students' misconception in biomedical domains. *Advances in Health Sciences Education*, 20: 403-420.

Bantjes, J., Swartz, L., Conchar, L. and Derman, E.W. 2015. Developing programmes to promote participation in sport among adolescents with disabilities: perceptions expressed by a group of South African adolescents with cerebral palsy. *International Journal of Disability Development and Education*, 62(3): 288-302.

Bantjes, J., Swartz, L., Conchar, L. and Derman, E.W. 2015. When they call me cripple: a group of South African adolescents with cerebral palsy attending a special needs school talk about being disabled. *Disability and Society*, 30(2): 241-254.

Bantjes, J.F., Swartz, L., Conchar, L. and Derman, E.W. 2015. "There is soccer but we have to watch": the embodied consequences of rhetorics of inclusion for South African children with cerebral palsy. *Journal of Community and Applied Social Psychology*, 26: 474-486.

Bergeron, M.F., Mountjoy, M., Armstrong, N., Chia, M., Cote, J., Emery, C., Faigenbaum, A., Hall, G., Kriemler, S., Leglise, M., Malina, R.M., Pensgaard, A.M., Sanchez, A., Soligard, T., Sundgot-Borgen, J., van Mechelen, W., Weissensteiner, J.R. and Engebretsen, L. 2015. International Olympic Committee consensus statement on youth athletic development. *British Journal of Sports Medicine*, 49: 843-851.

Bergman, N. 2015. Proposal for mechanisms of protection of supine sleep against sudden infant death syndrome: An integrated mechanism review. *Pediatric Research*, 77(1): 10-19.

Bidaurrazaga-Leton, I., Lekue, J.A., Amado, M., Santos-Concejero, J. and Gil, S.M. 2015. Identifying talented young soccer players: conditional, anthropometrical and physiological characteristics as predictors of performance. *RICYDE. Revista internacional de ciencias del deporte*, 11(39): 79-95.

Bidaurrazaga-Letona, I., Carvalho, H.M., Lekue, J.A., Santos-Concejero, J., figueiredo, A.J. and Gill, S.M. 2015. Longitudinal field test assessment in a basque soccer youth academy: a multilevel modeling framework to partition effects of maturation. *International Journal of Sports Medicine*, 36(3): 234-240.

Bogaers, A., Kok, S., Reddy, B.D. and Franz, T. 2015. Extending the robustness and efficiency of artificial

compressibility for partitioned fluid-structure interactions. *Computer Methods in Applied Mechanics and Engineering*, 283: 1278-1295.

Brown, J.C., Gardner-Lubbe, S., Lambert, M.I., van Mechelen, W. and Verhagen, E. 2015. The BokSmart intervention programme is associated with improvements in injury prevention behaviours of rugby union players: an ecological cross-sectional study. *Injury Prevention*, 21: 173-178.

Brown, J.C., Viljoen, W., Lambert, M.I., Readhead, C., Fuller, C., van Mechelen, W. and Verhagen, E. 2015. The economic burden of time-loss injuries to youth players participating in week-long rugby union tournaments. *Journal of Science and Medicine in Sport*, 18: 394-399.

Buchan, D., Boddy, L., Young, J.D., Cooper, S.-M., Noakes, T.D., Mahoney, C., Shields, J. and Baker, J. 2015. Relationships between cardiorespiratory and muscular fitness with cardiometabolic risk in adolescents. *Research in Sports Medicine*, 23: 227-239.

Burger, M., De Wet, H. and Collins, M. 2015. Interleukin and growth factor gene variants and risk of carpal tunnel syndrome. *Gene*, 564: 67-72.

Burger, M., De Wet, H. and Collins, M. 2015. The COL5A1 gene is associated with increased risk of carpal tunnel syndrome. *Clinical Rheumatology*, 34(4): 767-774.

Calligeris, T., Burgess, T. and Lambert, M.I. 2015. The incidence of injuries and exposure time of professional football club players in the Premier Soccer League during football season. *South African Journal of Sport Medicine*, 27(1): 16-19.

Chantler, S., Micklesfield, L.K., Dickie, K. and Goedecke, J.H. 2015. Longitudinal changes in body fat and its distribution in relation to cardiometabolic risk in black South African women. *Metabolic Syndrome and Related Disorders*, 13(9): 381-388.

Chaput, J.-P., Katzmarzyk, P.T., LeBlanc, A.G., Tremblay, M.S., Barreira, T.V., Broyles, S.T., Fogelholm, M., Hu, C., Kuriyan, R., Kurpad, A., Lambert, E.V., Rae, D., Maher, C., Maia, J., Matsudo, V., Onywera, V., Sarmiento, O.L., Standage, M., Tudor-Locke, C., Zhao, P. and Olds, T. 2015. Associations between sleep patterns and lifestyle behaviors in children: an international comparison. *International Journal of Obesity Supplements*, 5: S59-S65.

Chimhundu, C., de Jager, K. and Douglas, T.S. 2015. Sectoral collaboration networks for cardiovascular medical device development in South Africa. *Scientometrics*, 105: 1721-1741.

Clamp, L.D., Hehir, A.P.J., Lambert, E.V., Beglinger, C. and Goedecke, J.H. 2015. Lean and obese dietary

phenotypes: differences in energy and substrate metabolism and appetite. *British Journal of Nutrition*, 114: 1724-1733.

Collins, M., September, A.V. and Posthumus, M. 2015. Biological variation in musculoskeletal injuries: current knowledge, future research and practical implications. *British Journal of Sports Medicine*, 49: 1497-1503.

Cooper, R.S., Forrester, T.E., Plange-Rhule, J., Bovet, P., Lambert, E.V., Dugas, L., Cargill, K.E., Durazo-Arvizu, R.A., Shoham, D., Tong, L., Cao, G. and Luke, A. 2015. Elevated hypertension risk for African-origin populations in biracial societies: modeling the epidemiologic transition study. *Journal of Hypertension*, 33: 473-481.

Dave, J.A., Cohen, K., Micklesfield, L.K., Maartens, G. and Levitt, N. 2015. Antiretroviral therapy, especially efavirenz, is associated with low bone mineral density in HIV-infected South Africans. *PLoS One*, 10(12): e0144286(9pp).

de Guio, F., Fontes, E.B., Okano, A.H., Schabort, E., Min, L., Basset, F., Stein, D.J. and Noakes, T.D. 2015. Brain activity and perceived exertion during cycling exercise: an fMRI study. *British Journal of Sports Medicine*, 49: 556-560.

de Villiers, A., Steyn, N., Draper, C.E., Hill, J., Dalais, L., Fourie, J.M., Lombard, C., Barkhuizen, G. and Lambert, E.V. 2015. Implementation of the HealthKick intervention in primary schools in low-income settings in the Western Cape province, South Africa: a process evaluation. *BMC Public Health*, 15: 818(12pp).

Dendere, R., Myburg, N. and Douglas, T.S. 2015. A review of cellphone microscopy for disease detection. *Journal of Microscopy-Oxford*, 260(3): 248-259.

Dendere, R., Potgieter, H., Steiner, S.V.G., Wiley, S.P. and Douglas, T.S. 2015. Dual-Energy X-Ray absorptiometry for measurement of phalangeal bone mineral density on a slot-scanning digital radiography system. *IEEE Transactions on Biomedical Engineering*, 62(12): 2850-2859.

Dimatelis, J., Hsieh, J.H.-W., Sterley, T.-L., Marais, L., Womersley, J., Vlok, M.V. and Russell, V.A. 2015. Impaired energy metabolism and disturbed dopamine and glutamate signalling in the striatum and prefrontal cortex of the spontaneously hypertensive rat model of attention-deficit hyperactivity disorder. *Journal of Molecular Neuroscience*, 56: 696-707.

Donald, K.A.M., Roos, A., Fouche, J., Koen, N., Howells, F.M., Woods, R.P., Zar, H.J., Narr, K.L. and Stein, D.J. 2015. A study of the effects of prenatal alcohol exposure on white matter microstructural integrity at birth. *Acta Neuropsychiatrica*, 27(4): 197-205.

- Draper, C.E., Grobler, L., Micklesfield, L.K. and Norris, S.A. 2015. Impact of social norms and social support on diet, physical activity and sedentary behaviour of adolescents: a scoping review. *Child Care Health and Development*, 41(5): 654-667.
- du Plessis, L., Jacobson, S.W., Molteno, C.D., Robertson, F., Peterson, B.S., Jacobson, J.L. and Meintjes, E.M. 2015. Neural correlates of cerebellar-mediated timing during finger tapping in children with fetal alcohol spectrum disorders. *NeuroImage: Clinical*, 7: 562-570.
- Duvenage, K.M., Meltzer, S. and Chantler, S.A. 2015. Initial investigation of nutrition and supplement use, knowledge and attitudes of under-16 rugby players in South Africa. *South African Journal of Sport Medicine*, 27(3): 67-71.
- El Khoury, L., Posthumus, M., Collins, M., van der Merwe, W., Handley, C.J., Cook, J. and Raleigh, S.M. 2015. ELN and FBN2 gene variants as risk factors for two sports-related musculoskeletal injuries. *International Journal of Sports Medicine*, 36: 333-337.
- Elliott, A.D., Skowno, J., Prabhu, M., Noakes, T.D. and Ansley, L. 2015. Evidence of cardiac functional reserve upon exhaustion during incremental exercise to determine VO<sub>2</sub>max. *British Journal of Sports Medicine*, 49: 128-132.
- Ellman, N., Keswell, D., Collins, M., Tootla, M. and Goedecke, J.H. 2015. Ethnic differences in the association between lipid metabolism genes and lipid levels in black and white South African women. *Atherosclerosis*, 240: 311-317.
- Fan, J., Meintjes, E.M., Molteno, C.D., Spottiswoode, B., Dodge, N.C., Alhamud, A., Stanton, M.E., Peterson, B.S., Jacobson, J.L. and Jacobson, S.W. 2015. White matter integrity of the cerebellar peduncles as a mediator of effects of prenatal alcohol exposure on eyeblink conditioning. *Human Brain Mapping*, 36: 2470-2482.
- Francisco, N., Hsu, N., Keeton, R., Randall, P., Sebesho, B., Allie, N., Govender, D., Quesniaux, V., Ryffel, B., Kellaway, L.A. and Jacobs, M. 2015. TNF-dependent regulation and activation of innate immune cells are essential for host protection against cerebral tuberculosis. *Journal of Neuroinflammation*, 12: 125(14pp).
- Gabriels, G.A., Lambert, M.I., Smith, P.J., Wiesner, J.L. and Hiss, D. 2015. Melamine contamination in nutritional supplements – is it an alarm bell for the general consumer, athletes, and Weekend Warriors? *Nutrition Journal*, 14: 69(7pp).
- Garson, C., Kelly-Laubscher, R.F., Blackhurst, D.M. and Gwanyanya, A. 2015. Lack of cardioprotection by single-dose magnesium prophylaxis on isoprenaline-induced myocardial infarction in adult Wistar rats. *Cardiovascular Journal of Africa*, 26: 242-249.
- Goedecke, J.H., Chorell, E., Livingstone, D.E.W., Stimson, R.H., Hayes, P., Adams, K.G., Dave, J.A., Victor, H.S., Levitt, N., Kahn, S.E., Seckl, J., Walker, B.R. and Olsson, T. 2015. Glucocorticoid receptor gene expression in adipose tissue and associated metabolic risk in black and white South African women. *International Journal of Obesity*, 39(2): 303-311.
- Goedecke, J.H., Keswell, D., Weinreich, C., Fan, J., Hauksson, J.H., Victor, H.S., Utzschneider, K.M., Levitt, N., Lambert, E.V., Kahn, S.E. and Olsson, T. 2015. Ethnic differences in hepatic and systemic insulin sensitivity and their associated determinants in obese black and white South African women. *Diabetologia*, 58: 2647-2652.
- Greenberg, J., Smith, D., Burman, R., Ballo, R. and Kidson, S.H. 2015. Towards guidelines for informed consent for prospective stem cell research. *South African Journal of Bioethics and Law*, 8(2): 46-48.
- Gwanyanya, A. and Kelly-Laubscher, R.F. 2015. Cellular targets of inhalational anaesthetic- and opioid receptor agonist-induced cardioprotection. *Journal of African Association of Physiological Sciences*, 3: 1-8.
- Hamann, R., Smith, J., Tashman, P. and Marshall, R.S. 2015. Why do SMEs go green? An analysis of wine firms in South Africa. *Business & Society*, 54(2): 1-34.
- Hendricks, S., Lambert, M.I., Masimla, H. and Durandt, J. 2015. Measuring skill in rugby union and rugby league as part of the standard team testing battery. *International Journal of Sports Science & Coaching*, 10(5): 949-965.
- Hendricks, S., Marshall, M., Roux, A. and Hare, E. 2015. Under-13 rugby: what are the issues? A panel discussion. *South African Journal of Sport Medicine*, 27(3): 63-66.
- Hendricks, S., O'Connor, S., Lambert, M.I., Brown, J.C., Burger, N., McFie, S., Readhead, C. and Viljoen, W. 2015. Contact technique and concussions in the South African under-18 Coca-Cola Craven Week Rugby tournament. *European Journal of Sport Science*, 15(6): 557-564.
- Henst, R., Jaspers, r., Roden, L.C. and Rae, D. 2015. A chronotype comparison of South African and Dutch marathon runners: the role of scheduled race start times and effects on performance. *Chronobiology International*, 32(6): 858-868.
- Hill, J., Draper, C.E., de Villiers, A., Fourie, J.M., Mohamed, S., Parker, W. and Steyn, N. 2015. Promoting healthy lifestyle behaviour through the

- life-orientation curriculum: teachers perceptions of the healthKick intervention. *South African Journal of Education*, 35(1): 981(9pp).
- Hill, L.D., Collins, M. and Posthumus, M. 2015. Risk factors for shoulder pain and injury in swimmers: a critical systematic review. *Physician and Sportsmedicine*, 43(4): 412-420.
- Huang, T.T.K., Cawley, J.H., Ashe, M., Costa, S.A., Frerichs, L.M., Rivera, J.A., Levy, D., Hammond, R.A., Lambert, E.V. and Kumanyika, S.K. 2015. Mobilisation of public support for policy actions to prevent obesity. *Lancet*, 385: 2422-2431.
- Hume, D.J., Howells, F., Rauch, H.G.L., Kroff, J. and Lambert, E.V. 2015. Electrophysiological indices of visual food cue-reactivity. Differences in obese, overweight and normal weight women. *Appetite*, 85: 126-137.
- Hume, D.J., Howells, F.M., Karpul, D., Rauch, L., Kroff, J. and Lambert, E.V. 2015. Cognitive control over visual food cue saliency is greater in reduced-overweight/obese but not in weight relapsed women: an EEG study. *Eating Behaviors*, 19: 76-80.
- Hume, D.J., Kroff, J., Clamp, L.D. and Lambert, E.V. 2015. Compensations for weight loss in successful and unsuccessful dieters. *American Journal of Health Behavior*, 39(5): 589-600.
- Jaafar, H., Rouis, M., Coudrat, L., Glat, T., Noakes, T.D. and Driss, T. 2015. Influence of affective stimuli on leg power output and associated neuromuscular parameters during repeated high intensity cycling exercises. *PLoS One*, 10(8): e0136330(12pp).
- Katzmarzyk, P.T., Barreira, T.V., Broyles, S.T., Champagne, C.M., Chaput, J.-P., Fogelholm, M., Hu, G., Johnson, W.D., Kuriyan, R., Kurpad, A. and Lambert, E.V. 2015. Physical activity, sedentary time, and obesity in an international sample of children. *Medicine and Science in Sports and Exercise*, 47(10): 2062-2069.
- Katzmarzyk, P.T., Barreira, T.V., Broyles, S.T., Champagne, C.M., Chaput, J.-P., Fogelholm, M., Hu, G., Johnson, W.D., Kuriyan, R., Kurpad, A. and Lambert, E.V. 2015. Relationship between lifestyle behaviors and obesity in children ages 9-11: results from a 12-country study. *Obesity*, 23: 1696-1702.
- Keswell, D., Kidson, S.H. and Davids, L.M. 2015. Melanocyte migration is influenced by E-cadherin-dependent adhesion of keratinocytes in both two- and three-dimensional in vitro wound models. *Cell Biology International*, 39: 169-176.
- Klumpers, F., Morgan, B.E., Terburg, D., Stein, D.J. and van Honk, J. 2015. Impaired acquisition of classically conditioned fear-potentiated startle reflexes in humans with focal bilateral basolateral amygdala damage. *Social Cognitive and Affective Neuroscience*, 10: 1161-1168.
- Kohn, T.A. 2015. Report on the EUROMAC McArdle exercise testing workshop, Madrid, Spain, 11-12 July 2014. *Neuromuscular Disorders*, 25: 739-745.
- Kolbe-Alexander, T.L., Pacheco, K., Tomaz, S., Karpul, D. and Lambert, E.V. 2015. The relationship between the built environment and habitual levels of physical activity in South African older adults: a pilot study. *BMC Public Health*, 15: 518(9pp).
- Kotze, M., Luckhoff, H.K., Van Peeters, A.V., Baatjes, K., Schoeman, M., van der Merwe, L., Grant, K.A., Fisher, L.R., Van der Merwe, N., Pretorius, J., Van Velden, D.P., Myburgh, E.J., Pienaar, F.M., Van Rensburg, J., Yako, Y.Y., September, A.V., Moremi, K.E., Cronje, F.J., Tiffin, N., Bouwens, C.S.H., Bezuidenhout, J., Apffelstaedt, J.P., Hough, S., Erasmus, T. and Schneider, J.W. 2015. Genomic medicine and risk prediction across the disease spectrum. *Critical Reviews in Clinical Laboratory Sciences*, 52(3): 120-137.
- Kruger, H.S., Micklesfield, L.K., Wright, H.H., Havemann-Nel, L. and Goedecke, J.H. 2015. Ethnic-specific cut-points for sarcopenia: evidence from black South African women. *European Journal of Clinical Nutrition*, 69: 843-849.
- LeBlanc, A.G., Katzmarzyk, P.T., Barreira, T.V., Broyles, S.T., Chaput, J.-P., Church, T.S., Fogelholm, M., Harrington, D.M., Hu, G., Kuriyan, R., Kurpad, A., Lambert, E.V., Maher, C., Maia, J., Matsudo, V., Olds, T., Onywera, V.O., Sarmiento, O.L., Standage, M., Tudor-Locke, C., Zhao, P., Tremblay, M.S., Iscole Research Group (Uys, M., Sinyanya, N.A., Naidoo, N., Carstens, M.T. and April, M.) 2015. Correlates of total sedentary time and screen time in 9-11 year-old children around the world: The international study of childhood obesity, lifestyle and the environment. *PLoS One*, 10(6): e0129622(20pp).
- Lewis, C., Thomas, K., Dodge, N.C., Molteno, C.D., Meintjes, E.M., Jacobson, J.L. and Jacobson, S.W. 2015. Verbal learning and memory impairment in children with fetal alcohol spectrum disorders. *Alcoholism-Clinical and Experimental Research*, 39(4): 724-732.
- Leyva-Mendivil, M.F., Page, A., Bressloff, N.W. and Limbert, G. 2015. A mechanistic insight into the mechanical role of the stratum corneum during stretching and compression of the skin. *Journal of the Mechanical Behavior of Biomedical Materials*, 49: 197-219.
- Liu, F., Guo, W., Fouche, J., Wang, Y., Wang, W., Ding, J., Zeng, L., Qiu, C., Gong, Q., Zhang, W. and Chen, H. 2015. Multivariate classification of social anxiety disorder using whole brain functional connectivity. *Brain Structure & Function*, 220: 101-115.

- Liu, F., Xie, B.X., Wang, Y., Guo, W., Fouche, J., Long, Z.L., Wang, W.W., Chen, H.C., Li, M.L., Duan, X.D., Zhang, J.Z., Qiu, M.Q. and Chen, H. 2015. Characterization of post-traumatic stress disorder using resting-state fmri with a multi-level parametric classification approach. *Brain Topography*, 28: 221-237.
- Lombard, M., Steyn, N., Charlton, K.E. and Senekal, M. 2015. Application and interpretation of multiple statistical tests to evaluate validity of dietary intake assessment methods. *Nutrition Journal*, 14: 40(11pp).
- Lombard, W., Durandt, J., Masimla, H., Green, M. and Lambert, M.I. 2015. Changes in body size and physical characteristics of South African under-20 rugby union players over a 13-year period. *Journal of Strength and Conditioning Research*, 29(4): 980-988.
- Mann, T., Platt, C., Lamberts, R. and Lambert, M.I. 2015. Faster heart rate recovery with increased RPE: paradoxical responses after an 87-km ultramarathon. *Journal of Strength and Conditioning Research*, 29(12): 3343-3352.
- Maunder, E.M., Nel, J., Steyn, N., Kruger, H.S. and Labadarios, D. 2015. Added sugar, macro- and micronutrient intakes and anthropometry of children in a developing world context. *PLoS One*, 10(11): e0142059(24pp).
- Mchiza, Z.J., Steyn, N., Hill, J., Kruger, A., Schonfeldt, H.S., Nel, J. and Wentzel-Viljoen, E. 2015. A review of dietary surveys in the adult South African population from 2000-2015. *Nutrients*, 7: 8227-8250.
- Milner, K., Greyling, M., Goetzal, R.Z., da Silva, R., Kolbe-Alexander, T.L., Patel, D., Nossel, C. and Beckowski, M. 2015. The relationship between leadership support, workplace health promotion and employee wellbeing in South Africa. *Health Promotion International*, 30(3): 514-522.
- M'Kaibi, F.K., Steyn, N., Ochola, S. and Du Plessis, L. 2015. Effects of agricultural biodiversity and seasonal rain on dietary adequacy and household food security in rural areas of Kenya. *BMC Public Health*, 15: 422(11pp).
- Morris, L.D., Louw, Q.A., Grimmer, K. and Meintjes, E.M. 2015. Targeting pain catastrophization in patients with fibromyalgia using virtual reality exposure therapy: a proof-of-concept study. *Journal of Physical Therapy Science*, 27: 3461-3467.
- Mutsvangwa, T., Burdin, V., Schwartz, C. and Schwartz, C. 2015. An automated statistical shape model developmental pipeline: application to the Human Scapula and Humerus. *IEEE Transactions on Biomedical Engineering*, 62(4): 1098-1107.
- Naidoo, V., Lang, D.M. and Van der Merwe, E.L. 2015. Addressing the challenges of multi-immunofluorescent deep tissue imaging of islets and vasculature in the rat pancreas. *Journal of Molecular Biology and Molecular Imaging*, 2(2): 1-5.
- Noakes, T.D. 2015. The 2012 University of Cape Town faculty of health sciences centenary debate: Cholesterol is not an important risk factor for heart disease, and the current dietary recommendations do more harm than good. *South African Journal of Clinical Nutrition*, 28(1): 19-33.
- Nolte, H., Hew-Butler, T., Noakes, T.D. and Duvenage, C.S.J. 2015. Exercise-associated hyponatremic encephalopathy and exertional heatstroke in a soldier: high rates of fluid intake during exercise caused rather than prevented a fatal outcome. *Physician and Sportsmedicine*, 43(1): 93-98.
- Noorbhai, M.H. and Noakes, T.D. 2015. Advances in cricket in the 21<sup>st</sup> century: science, performance and technology. *African Journal for Physical, Health Education, Recreation and Dance*, 21(4:2): 1310-1320.
- O'Connell, K., Knight, H., Ficek, F., Leonska-Duniec, A., Maciejewska-Karłowska, A., Sawczuk, M., Stepien-Słodkowska, M., O'Cuinneagain, D., van der Merwe, W., Posthumus, M., Cieszczyk, P. and Collins, M. 2015. Interactions between collagen gene variants and risk of anterior cruciate ligament rupture. *European Journal of Sport Science*, 15(4): 341-350.
- Okano, A.H., Fontes, E.B., Montenegro, R.A., De Tarso Veras Farinatti, P., Cyrino, E.S., Li, L.M., Bikson, M. and Noakes, T.D. 2015. Brain stimulation modulates the autonomic nervous system, rating of perceived exertion and performance during maximal exercise. *British Journal of Sports Medicine*, 49: 1213-1218.
- Okoth, M.A., Ochola, S., Onywera, V. and Steyn, N. 2015. Determinants of overweight and obesity in Kenyan adolescents in public and private schools. *African Journal for Physical, Health Education, Recreation and Dance*, 21(1:2): 261-272.
- Orcholski, L., Luke, A., Plange-Rhule, J., Bovet, P., Forrester, T.E., Lambert, E.V., Dugas, L., Kettmann, E., Durazo-Arvizu, R.A., Cooper, R.S. and Schoeller, D.A. 2015. Under-reporting of dietary energy intake in five populations of the African diaspora. *British Journal of Nutrition*, 113: 464-472.
- Otter, R.T.A., Brink, M.S., Lamberts, R. and Lemmink, A.P.M. 2015. A new submaximal rowing test to predict 2,000-m rowing ergometer performance. *Journal of Strength and Conditioning Research*, 29(9): 2426-2433.
- Pauck, R. and Reddy, B.D. 2015. Computational analysis of the radial mechanical performance of PLLA coronary artery stents. *Medical Engineering & Physics*, 37: 7-12.

- Peres, J., Mowla, S. and Prince, S. 2015. The T-box transcription factor, TBX3, is a key substrate of AKT3 in melanomagenesis. *Oncotarget*, 6(3): 1821-1833.
- Perks, T., Dendere, R., Irving, B., Hartley, T., Scholtz, P., Lawson, A.J., Trauernicht, C.J., Steiner, S.V.G. and Douglas, T.S. 2015. Filtration to reduce paediatric dose for a linear slot-scanning digital X-ray machine. *Radiation Protection Dosimetry*, 167(4): 552-561.
- Pillay, J., Van Der Ploeg, H.P., Kolbe-Alexander, T.L., Proper, K.I., Van Stralen, M., Tomaz, S., Van Mechelen, W. and Lambert, E.V. 2015. The association between daily steps and health, and the mediating role of body composition: a pedometer-based, cross-sectional study in an employed South African population. *BMC Public Health*, 15: 174(12pp).
- Pineiro, F.A., Santos, T.M., Ugrinowitsch, C., Noakes, T.D. and Pires, F.O. 2015. Effects of light deprivation in physical performance and psychophysiological responses to a time-to-exhaustion exercise test. *Physiology & Behavior*, 151: 535-540.
- Popovic, A., Wiggins, T.M. and Davids, L.M. 2015. Differential susceptibility of primary cultured human skin cells to hypericin PDT in an in vitro model. *Journal of Photochemistry and Photobiology B-Biology*, 149: 249-256.
- Rae, D., Stephenson, K. and Roden, L.C. 2015. Factors to consider when assessing diurnal variation in sports performance: the influence of chronotype and habitual training time-of-day. *European Journal of Applied Physiology*, 115: 1339-1349.
- Raimondo, J.V., Burman, R., Katz, A.A. and Akerman, C.J.A. 2015. Ion dynamics during seizures. *Frontiers in Cellular Neuroscience*, 9: 419(14pp).
- Ravindranath, V., Dang, H.D., Goya, R.G., Mansour, H.M., Nimgaonkar, V.N., Russell, V.A. and Xin, Y.X. 2015. Regional research priorities in brain and nervous system disorders. *Nature*, 527: S198-S206.
- Refinetti, R., Sani, m., Jean-Louis, G., Pandi-Perumal, S.R., Durazo-Arvizu, R.A., Dugas, L., Kafensztok, R., Bovet, P., Forrester, T.E., Lambert, E.V., Plange-Rhule, J. and Luke, A. 2015. Evidence for daily and weekly rhythmicity but not lunar or seasonal rhythmicity of physical activity in a large cohort of individuals from five different countries. *Annals of Medicine*, 47(7): 530-537.
- Ross, I.L. and Louw, G.J. 2015. Embryological and molecular development of the adrenal glands. *Clinical Anatomy*, 28: 235-242.
- Rouis, M., Attiogbe, A., Vandewalle, H., Jaafar, H., Noakes, T.D. and Driss, T. 2015. Relationship between vertical jump and maximal power output of legs and arms: effects of ethnicity and sport. *Scandinavian Journal of Medicine & Science in Sports*, 25: e197-e207.
- Runciman, P., Derman, E.W., Ferreira, S., Albertus-Kajee, Y. and Tucker, R. 2015. A descriptive comparison of sprint cycling performance and neuromuscular characteristics in able-bodied athletes and Paralympic athletes with cerebral palsy. *American Journal of Physical Medicine & Rehabilitation*, 94(1): 28-37.
- Sani, m., Refinetti, R., Jean-Louis, G., Pandi-Perumal, S.R., Durazo-Arvizu, R.A., Dugas, L., Kafensztok, R., Bovet, P., Forrester, T.E., Lambert, E.V., Plange-Rhule, J. and Luke, A. 2015. Daily activity patterns of 2316 men and women from five countries differing in socioeconomic development. *Chronobiology International*, 32(5): 650-656.
- Santos-Concejero, J., Billaut, F.H.M., Grobler, L., Oliván, J.F., Noakes, T.D. and Tucker, R. 2015. Maintained cerebral oxygenation during maximal self-paced exercise in elite Kenyan runners. *Journal of Applied Physiology*, 118: 156-162.
- Santos-Concejero, J., Oliván, J., Mate-Munoz, J.L., Muniesa, C., Montil, M., Tucker, R. and Lucia, A. 2015. Gait-cycle characteristics and running economy in elite Eritrean and European runners. *International Journal of Sports Physiology and Performance*, 10: 381-387.
- Saunders, C., Posthumus, M., O'Connell, K., September, A.V. and Collins, M. 2015. A variant within the AQP1 3-untranslated region is associated with running performance, but not weight changes, during an Ironman Triathlon. *Journal of Sports Sciences*, 33(13): 1342-1348.
- Saunders, C., van der Merwe, L., Cook, J., Handley, C.J., Collins, M. and September, A.V. 2015. Extracellular matrix proteins interact with cell-signaling pathways in modifying risk of achilles tendinopathy. *Journal of Orthopaedic Research*, 33: 898-903.
- Senekal, M., Seme, Z., de Villiers, A. and Steyn, N. 2015. Health status of primary school educators in low socio-economic areas in South Africa. *BMC Public Health*, 15: 186(10pp).
- Sewry, N., Lambert, M.I., Roode, B., Matthews, B. and Hendricks, S. 2015. The relationship between playing situation, defence and tackle technique in Rugby Union. *International Journal of Sports Science & Coaching*, 10(6): 1115-1128.
- Shamley, D.R. and Robb, K. 2015. An early warning surveillance programme for detecting upper limb deterioration after treatment for breast cancer: a novel technology supported system. *BMC Cancer*, 15: 635(4pp).
- Shoham, D., Dugas, L., Bovet, P., Forrester, T.E., Lambert, E.V., Plange-Rhule, J., Schoeller, D.A., Brage, S., Ekelund, U., Durazo-Arvizu, R.A., Cooper, R.S. and Luke, A. 2015. Association of car ownership

and physical activity across the spectrum of human development: modeling the Epidemiologic Transition Study(METS). *BMC Public Health*, 15: 173(10pp).

Shultz, S.J., Schmitz, R.J., Benjaminse, A., Collins, M., Ford, K. and Kulas, A. 2015. ACL research retreat VII: an update on anterior cruciate ligament injury risk factor identification, screening, and prevention. *Journal of Athletic Training*, 50(10): 1076-1093.

Sirry, M.S., Davies, N.H., Kadner, K., Dubuis, L., Saleh, M., Meintjes, E.M., Spottiswoode, B., Zilla, P. and Franz, T. 2015. Micro-structurally detailed model of a therapeutic hydrogel injectate in a rat biventricular cardiac geometry for computational simulations. *Computer Methods in Biomechanics and Biomedical Engineering*, 18(3): 325-331.

Smit, W., De Lannoy, A., Dover, R.V.H., Lambert, E.V., Levitt, N. and Watson, V.J. 2015. Making unhealthy places: the built environment and non-communicable diseases in Khayelitsha, Cape Town. *Health & Place*, 35: 11-18.

Steyn, N., de Villiers, A., Gwebushe, N., Draper, C.E., Hill, J., de Waal, M., Dalais, L., Abrahams, Z., Lombard, C. and Lambert, E.V. 2015. Did HealthKick, a randomised controlled trial primary school nutrition intervention improve dietary quality of children in low-income settings in South Africa? *BMC Public Health*, 15: 948(11pp).

Steyn, N., Mchiza, Z.J.-R. and Kengne, A.P. 2015. Future challenges for pediatric diabetes management in developing countries: lessons from Africa. *Expert Review of Endocrinology and Metabolism*, 10(1): 75-86.

Tam, N., Tucker, R., Wilson, J.L.A. and Santos-Concejero, J. 2015. Effect on oxygen cost of transport from 8-weeks of progressive training with barefoot running. *International Journal of Sports Medicine*, 36: 1100-1105.

Taylor, P., Meintjes, E.M., van der Kouwe, A.J., Molteno, C.D., Chen, G., Wintermark, P., Alhamud, A., Jacobson, J.L. and Jacobson, S.W. 2015. A DTI-based tractography study of effects on brain structure associated with prenatal alcohol exposure in newborns. *Human Brain Mapping*, 36(1): 170-186.

Tucker, R., Onywera, V.O. and Santos-Concejero, J. 2015. Analysis of the Kenyan distance-running phenomenon. *International Journal of Sports Physiology and Performance*, 10: 285-291.

Tudor-Locke, C., Barreira, T.V., Schuna, J.M., Mire, E.F., Chaput, J.-P., Fogelholm, M., Hu, G., Kuriyan, R., Kurpad, A., Lambert, E.V. and Maher, C. 2015. Improving wear time compliance with a 24-hour waist-worn accelerometer protocol in the International Study of Childhood Obesity, Lifestyle

and the Environment (ISCOLE). *International Journal of Behavioral Nutrition and Physical Activity*, 12: 11(9pp).

Tudor-Locke, C., Mire, E.F., Dentre, K.N., Barreira, T.V., Schuna, J.M., Zhao, P., Tremblay, M.S., Standage, M., Sarmiento, O.L., Onywera, V., Olds, T., Matsudo, V., Maia, J., Maher, C. and Lambert, E.V. 2015. A model for presenting accelerometer paradata in large studies: ISCOLE. *International Journal of Behavioral Nutrition and Physical Activity*, 12: 52(7pp).

Van Breda, K., Collins, M., Stein, D.J. and Rauch, H.G.L. 2015. The COMT val158 met polymorphism in ultra endurance athletes. *Physiology & Behavior*, 151: 279-283.

van den Berg, M., Kellaway, L.A., Swanevelder, J. and James, M.F.M. 2015. A comparison of magnesium induced recurarization between neuromuscular block reversal agent in an in vivo rat model. *Southern African Journal of Anaesthesia and Analgesia*, 21(2): 31.

Volek, J.S., Noakes, T.D. and Phinney, S.D. 2015. Rethinking. Fat as a fuel for endurance exercise. *European Journal of Sport Science*, 15(1): 13-20.

Webborn, N., Williams, A., McNamee, M., Bouchard, C., Pitsiladis, Y., Ahmetov, I.I., Ashley, E., Byrne, N., Camporesi, S., Collins, M. and Dijkstra, P. 2015. Direct-to-consumer genetic testing for predicting sports performance and talent identification: consensus statement. *British Journal of Sports Medicine*, 49: 1486-1491.

Willmer, T., Peres, J., Mowla, S., Abrahams, A. and Prince, S. 2015. The T-Box factor TBX3 is important in S-phase and is regulated by c-Myc and cyclin A-CDK2. *Cell Cycle*, 14(19): 3173-3183.

Womersley, J., Dimatelis, J. and Russell, V.A. 2015. Proteomic analysis of maternal separation-induced striatal changes in a rat model of ADHD: the spontaneously hypertensive rat. *Journal of Neuroscience Methods*, 252: 64-74.

Woods, K., Meintjes, E.M., Molteno, C.D., Jacobson, S.W. and Jacobson, J.L. 2015. Parietal dysfunction during number processing in children with fetal alcohol spectrum disorders. *NeuroImage-Clinical*, 8: 594-605.

Zouhal, H., BenAbderrahma, A., Prioux, J., Knechtle, B., Bouguerra, L., Kebisi, W. and Noakes, T.D. 2015. Drafting's improvement of 3000-m running performance in elite athletes: is it a placebo effect? . *International Journal of Sports Physiology and Performance*, 10: 147-152.



### **Peer-reviewed published conference proceedings**

Britto, P., Vijayakumar, R. and Sivarasu, S. 2015. Design evaluation of REMAP exoskeleton. In J. Goh (ed), Proceedings of IFMBE Proceedings, 6-8 July 2015, Singapore. Switzerland: Springer International Publishing Switzerland. ISBN 9783319194526.

Nageswaran, S., Vijayakumar, R. and Sivarasu, S. 2015. Design of mechanical interface to redistribute excess pressure to prevent the formation of decubitus ulcers in bed ridden patients. In J. Patton (ed), Proceedings of 37<sup>th</sup> Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 25-29 August, Italy. USA: EMBC. ISBN 9781424492718.

Patnaik, S. and Sivarasu, S. 2015. Patellofixator rig - design specifications of a device assisting medial patello femoral ligament [MPFL] reconstruction. In J. Goh (ed), Proceedings of IFMBE Proceedings, 6-8 July 2015, Singapore. Switzerland: Springer International Publishing Switzerland. ISBN 9783319194526.

Paul, S.K., Vijayakumar, R. and Sivarasu, S. 2015. Palmar pressure thresholds in grasp and pinch functions analysis on patients with peripheral nerve damage. In J. Goh (ed), Proceedings of IFMBE Proceedings, 6-8 July 2015, Singapore. Switzerland: Springer International Publishing Switzerland. ISBN 9783319194526.

# **Department of Integrative Biomedical Sciences**

## **Research Report 2015**

**Head of Department: Professor Edward Sturrock**

## **Departmental Profile**

The Department of Integrative Biomedical Sciences (IBMS) is based on the historic pre-clinical divisions of Medical Biochemistry and Computational Biology. It provides the foundation teaching and training in the preclinical years where core Biochemistry and Molecular Biology principals are taught in an integrated manner as part of patient orientated case studies. In addition, the department offers a course entitled Molecular Medicine that represent an opportunity to train a new cadre of young African clinician-scientists at the undergraduate level. It is open to 3<sup>rd</sup> year MBChB students who are enrolled in the intercalated MBChB/BMedSc(Hons) track and to students enrolled in the BSc(Med) programme. The Departmental academic activities are managed through an Executive Committee which is responsible for the operational functioning of the Department as well as for strategic and high-level planning and decisions. The ExCo comprises the HOD Prof E.D. Sturrock, the Deputy HOD Prof A. Katz, and the Heads of Divisions. IBMS is building capacity in scarce skills in South Africa including bioinformatics and large data analysis, as well as in integrative and multidisciplinary molecular sciences. It has current strengths both in undergraduate teaching, as well post-graduate training and research; and a strong National and African footprint in capacity development, education and service. The Department of Integrative Biomedical Sciences comprises three divisions: Chemical and Systems Biology; Computational Biology; Medical Biochemistry and Structural Biology.

# Department of Integrative Biomedical Sciences

## DIVISIONAL OF CHEMICAL & SYSTEMS BIOLOGY

Head of Division: Professor Jonathan Blackburn

### Divisional Profile

The Division of Chemical & Systems Biology provides a specific focus on teaching, training and research in integrated 'omics (including genomics, transcriptomics, proteomics, metabolomics & phenomics), synthetic biology and systems-oriented approaches to the description, diagnosis and treatment of the dynamic, complex cellular and molecular systems that underpin human disease phenomena. Our member groups are located within the Institute of Infectious Disease and Molecular Medicine (IDM) in the Health Science Faculty.

Our teaching, training and research bridges contemporary molecular medicine studies and the fields of biochemistry, chemical biology, systems biology and synthetic biology, combining physical, chemical, biological, synthetic, systems and biomedical concepts and techniques to describe amongst others molecular mechanisms of disease and to develop molecular interventions to diagnose and correct them.

Through 2015 there were 26 research postgraduate students registered Masters/PhD. The Division graduated 5 PhD and 1 MSc students during the course of 2015. During 2015 the Division and its' affiliates published 31 papers in ISI-accredited science journals and had 3 granted patents.

### Research includes the following focus areas:

- **Sturrock lab** – Angiotensin converting enzyme (ACE) structure activity relationships and development of ACE inhibitors (drug design) for treatment of hypertension, congestive heart failure, myocardial infarction and fibrosis.

- **Blackburn lab** – Application of functional proteomics for diagnostics, drug and vaccine development for infectious disease and cancers
- **Barth lab** – Research uses medical biotechnology such as antibody selection technology and protein engineering and expression to develop knowledge-based recombinant immunodiagnostics and therapeutics
- **Zerbini lab** – Regulation of gene expression by transcription factors, role of receptor tyrosine kinases in cancer malignancies, aberrant gene expression in carcinogenesis, alterations in signal transduction pathways and gene translocations
- **Mhlanga lab** – Gene Expression & Biophysics

Research staff members, fellows, postgrad students participated in many local and international conferences during the year. Our Division considers such travel essential and worthwhile in that they give rise to new collaborations and maintenance of established collaborations and lab research visits.

### Divisional Statistics

#### Permanent and Long-Term Contract Staff

Professors	3
Associate Professor Joint UCT/CSIR	1
Junior Research Fellows	1
Departmental Chief/Senior Scientific Officer	3
Departmental Assistants	1
Administrative Staff	1
<b>Total</b>	<b>10</b>

#### Honorary Staff

Honorary Associate Professor	1
------------------------------	---

#### Students and Postdoctoral Fellows

Postdoctoral Fellows	13
Doctoral	24
Masters	2
<b>Total</b>	<b>39</b>

## Research Fields and Staff

### Professors

#### J M BLACKBURN

South African Research Chair  
Proteomics and genomics for diagnostics, drug and vaccine development for infectious disease and cancers

#### E D STURROCK

FRSSAF & Fellow of UCT  
Angiotensin converting enzyme (ACE) structure activity relationships and drug design related to ACE inhibitors for treatment of hypertension, congestive heart failure, myocardial infarction and renal disease

#### S BARTH

NRF SARChI Chair in Cancer Biotechnology  
Medical biotechnology, antibody technologies, protein engineering, immunodiagnostics, bioassay development & integration

### Honorary Associate Professor

#### LUIZ ZERBINI

Group Leader – Cancer Genomics

### Associate Professor Joint UCT/CSIR

#### MUSA MHLANGA

Research group leader – Gene Expression & Biophysics

### Junior Research Fellow

#### NELSON DA CRUZ SOARES

### Postdoctoral Fellows

#### NICOLETTE HENDRICKS

#### BRIDGET CALDER

#### MELISEW TADELE

#### CLEMENS HERMANN

#### SUERETA FORTUIN

#### LESHERN KARAMCHAND

#### MOUSUMI BANJEREE

#### AFOLAKE AROWOLO

#### LAUREN ARENDSE

#### SHANKAR RAMACHANDRAN

#### DANIELLE LUCON

#### BRUNA DE ARAUJO LIMA

#### TED CHANG

### Chief Scientific Officers

#### SYLVA SCHWAGER

Proteolytic processing of membrane proteins

#### ANDREW NEL

LC-MS based lipidomic analysis of breast milk to evaluate the role of human milk factors in HIV transmission

### Senior Scientific Officers

Sriram Krishnan  
Raman biosensors

## Contact Details

Postal Address: Division of Chemical & Systems Biology, Level 3, Room N3.06, Wernher Beit North Building, UCT Medical School, Anzio Rd, Observatory, 7925, Cape Town, South Africa  
Telephone: +27 21 650 1595 (Administrator) and +27 21 406 6071 (Head)  
Email (Head): [jonathan.blackburn@uct.ac.za](mailto:jonathan.blackburn@uct.ac.za)  
Website: <http://dev.chemsysbio.uct.ac.za>

# Department of Integrative Biomedical Sciences

## DIVISION OF COMPUTATIONAL BIOLOGY

**Head of Division: Professor Nicola Mulder**

### Divisional Profile

The Computational Biology (CBIO) Division, located within the Institute of Infectious Disease and Molecular Medicine (IDM), is the centre of Bioinformatics activities at the university. The mission of the CBIO Division is to become an exceptional, internationally recognized research and training center, addressing the challenges of bioinformatics capacity development in South Africa. The division performs bioinformatics research and provides training and services in the discipline.

Research focuses on infectious diseases from both the host and pathogen perspectives, particularly for TB and viral diseases. CBIO uses data mining and systems biology approaches to study the molecular biology and evolution of bacterial and viral pathogens and their interaction with their hosts. Through involvement in H3ABioNet, a pan African bioinformatics network for H3Africa, and the Human Heredity and Health in Africa (H3Africa) initiative, research has also focused on microbiomes, population genetics and GWA studies and the development of new algorithms to study the genetics of admixed populations.

CBIO has a large network of connections with other bioinformatics groups in Africa through H3ABioNet, and has ties with the African Institute for Mathematical Sciences (AIMS) by supervising student essays.

Training Activities: CBIO teaches a module for Molecular medicine students and several modules for the Health Science Honours programme. It also convenes the Health Science Honours Programme in Bioinformatics. However, the main focus of the group is on postgraduate education, and the group supervises a number of students. CBIO Graduations in 2015:

- Gustavo Salazar, PhD degree
- Brejnev Muhire, PhD degree
- Kayleigh Rutherford, Honours
- Florence Phelanyane, Honours
- Penelope Hay-Hartnady, Honours
- Sabina Stefan, Honours

CBIO hosted several interns in 2015, including: Phillip Magambo from Rhodes University; Hermina de Wit from Rhodes University; Elsa-Gayle Zekeng, University of Liverpool, and Zareen Baichoo, University of Mauritius. The CBIO group also runs short specialized workshops for researchers. In 2015 this included:

- H3ABioNet-AIMS Genome-wide Association Study Data Analysis Course (April 2015)
- GOBLET train the trainer workshop (November 2015)
- Practical Course on Gene/Protein Functional Networks and Interactomes (November 2015)
- Prof Mulder organized the 7-week national bioinformatics course for postgraduate students.

**Bioinformatics Services:** The CBIO IT team provides bioinformatics services and support to numerous researchers inside and outside UCT, as well as managing the server room which houses CBIO and other computing equipment.

**Additional Achievements in the CBIO in 2015:** Nicola Mulder once again was placed on the Thomson Reuters highly cited list in 2015. She was invited to join the Global Alliance Steering Committee, and gave invited talks at the eResearch conference in Cape Town, South Africa, the UCT Big Data meeting in Cape Town, and at the Intelligent Systems for Molecular Biology Conference in Dublin. She co-organized the ISCB Africa ASBCB Conference on Bioinformatics in Tanzania and was on the organizing committee for the Infectious Diseases and Global Health Conference in Cambridge. Darren Martin gave an invited talk at the Virus Evolution and Molecular Epidemiology Conference in Trinidad and Tobago.

## Divisional Statistics

### Permanent and Long-Term Contract Staff

Professors	1
Associate Professor	1
Lecturer	2
Software Developer	3
H3A BioNet Project Manager	1
Systems Administrator	1
Training Coordinator	1
Administrator	1
Senior Secretary	1
H3Africa Administrator	1
H3Africa Project Coordinator	1
<b>Total</b>	<b>14</b>

### Honorary Staff

Honorary Senior Lecturer	1
--------------------------	---

### Students and Postdoctoral Fellows

Postdoctoral Fellows	3
Doctoral	10
Masters	7
Honours	4
<b>Total</b>	<b>24</b>

## Staff

### Permanent and Long-Term Contract Staff

#### **PROFESSOR NICOLA MULDER**

Head of Division

#### **ASSOCIATE PROFESSOR DARREN MARTIN**

Associate Professor

#### **GASTON MAZANDU**

Honorary Senior Lecturer

#### **EMILE CHIMUSA**

Lecturer

#### **NATASHA WOOD**

Lecturer

#### **AYTON MEINJIES**

Software Developer

#### **GERRIT BOTHA**

Software Developer

#### **SUMIR PANJI**

H3ABioNet Project Manager

#### **SURESH MASLAMONEY**

Systems Administrator

#### **VICTORIA NEMBAWARE**

Training Coordinator

#### **DANNY MUGUTSO**

Software Developer

#### **NAZLA HASSEN**

Administrator

#### **ZAHRA GANESH**

Senior Secretary

#### **ABIGAIL ABRAHAMS**

H3Africa Administrator

#### **MICHELLE SKELTON**

H3Africa Project Coordinator

## Contact Details

Postal Address: UCT Computational Biology Group,  
Institute of Infectious Disease and Molecular  
Medicine, University of Cape Town Health Sciences  
Campus, Anzio Road, Observatory, 7925 South  
Africa

Telephone: +27 21 650 5789

Email: [info@cbio.uct.ac.za](mailto:info@cbio.uct.ac.za)

Website: <http://www.cbio.uct.ac.za/>

# Department of Integrative Biomedical Sciences

## DIVISION OF MEDICAL BIOCHEMISTRY & STRUCTURAL BIOLOGY

### Head of Division: Associate Professor Virna Leaner

The Division of Medical Biochemistry and Structural Biology is a preclinical, basic science division in the newly formed Department of Integrated Biomedical Sciences in the UCT Faculty of Health Sciences and is associated, either wholly or partly, with a number of advanced research entities. Some such entities are laboratory research groups contained entirely within Division, while some have certain components or personnel falling within the Division, affiliated to other Institutes or Departmental groupings.

Specifically: The Division incorporates the MRC/UCT Research Group for Receptor Biology (co-directed by A/Prof Arieh Katz and Prof Bob Millar, Senior Scholar in our Division); the UCT Structural Biology Research Group (directed by Prof Trevor Sewell); members of the Institute of Infectious Disease and Molecular Medicine (IDM) at UCT (Profs, Meissner, Parker, Katz and Leaner); and the International Centre for Genetic Engineering and Biotechnology (ICGEB) (Prof Iqbal Parker).

Through 2015 there were 24 research postgraduate students registered for either Masters or PhD, and a further 13 Honours students were based in our division for the duration of their research projects (April – November) The Division graduated 2 PhD and 2 MSc students during the course of 2015. Together with various scientific and academic staff our postgraduate students and postdoctoral fellows continued to form the basis of a vibrant and on-going research thrust and culture in the Division. In addition we teach at both under- and post-graduate levels. During 2015 the Division and its' affiliates published 54 papers in ISI accredited science journals, 10 non-accredited journal articles.

Research activities of the Division cover five major areas:

1. GnRH receptors, signalling, structure – function and as a target for development of therapeutics for treatment of reproductive cancers (Katz & Millar labs);
2. Molecular mechanisms of cervical cancer and oesophageal cancer development and progression (Leaner, Hendricks and Parker labs)
3. Identification and characterisation of anticancer drugs in natural products (Hendricks lab);
4. Diagnostic, structure and function studies in the porphyrias and haem biosynthesis (Meissner lab – currently sited and staffed in the Dept. of Medicine)
5. Structural basis for differential regulation of glutamine synthetase in humans and the malaria parasite, structural studies on the nitrilase family of enzymes in the context of cancer, mycothiol synthetic pathway in *Mycobacterium tuberculosis* (Sewell lab – currently located on UCT upper campus)

Research staff members, fellows, postgrad students participated in many local and international conferences during the year. Our Division considers such travel essential and worthwhile in that they give rise to new collaborations and maintenance of established collaborations and lab research visits.

## Divisional Statistics

### Permanent and Long-Term Contract Staff

Professors	3
Associate Professors	3
Research Officer	1
NRF Career Research Fellow	2
Departmental Technical Support Staff	3
Departmental Assistants	2
Departmental Administrative Staff	1
<b>Total</b>	<b>15</b>

## Emeritus, Affiliate and Honorary Staff

Professor (Emeritus) appointed as Senior Scholar	1
Professor (working in affiliated Institution)	1
Honorary Professors	3
Emeritus Associate Professor	1
Honorary Senior Lecturer	1
Honorary Research Associate	1
Honorary Lecturer	1
<b>Total</b>	<b>9</b>

## Students and Postdoctoral Fellows

Postdoctoral Fellows	4
Doctoral	12
Masters	12
Honours	13
Undergraduate students taking Med. Biochem courses	936
<b>Total</b>	<b>977</b>

## Research Fields and Staff

### Professors

#### **P N MEISSNER**

Haem biosynthesis, disorders of porphyrin metabolism

#### **B T SEWELL**

Structural biology related to regulation of glutamine synthetase in humans and the malaria parasite, nitrilases in the context of cancer, mycothiol synthetic pathway in *Mycobacterium tuberculosis*

#### **A A KATZ**

Gonadotropin-Releasing Hormone (GnRH) receptors: function regulation and ligand receptor interactions; role of cyclooxygenases and prostaglandins in cervical cancer and uterine pathologies

### Professor (Emeritus appointed as Senior Scholar)

#### **R P MILLAR**

(Life Fellow of UCT)  
Endocrine receptor and molecular biology

### Professor (working in affiliated Institute)

#### **M I PARKER**

(Based in the International Centre for Genetic Engineering and Biotechnology – ICGEB, Cape Town)  
Cellular and molecular biology of cancer; Regulation of gene expression in cancer

### Associate Professors

#### **DENVER HENDRICKS**

Molecular biology of oesophageal cancer and development of novel chemotherapeutic drugs

#### **VIRNA LEANER**

Molecular mechanisms associated with the development and treatment of cervical cancer

#### **CYNTHIA SIKAKANA**

Medical education, Metabolism of xenobiotics

### Honorary Professors

W-D Schubert, South Africa  
CGP Mathew, United Kingdom  
KR Acharya, United Kingdom

### Emeritus Associate Professor

L R Thilo

### Honorary Senior Lecturer

#### **HENRY JABBOUR**

G protein – coupled receptors in reproductive biology and HIV

### Honorary Research Associate

Arvind Varsani

### Honorary Lecturer

KJ Sales

### NRF Career Research Fellows

JD Woodward  
PJ Van Der Watt

### Postdoctoral Fellows

Kate Hadley  
Joseph Rainmondo  
Nina Holderness-Parker  
Lisa Graham

### Research Officer

Georgia Schäfer  
(Katz/Millar lab, IDM)

## Departmental Technical Support Staff

Hajira Guzgay  
Roshan Ebrahim  
Xolani Nonzinyana

## Contact Details

Postal Address: Division of Medical Biochemistry,  
Level 6, Room 6.07, Falmouth Building, UCT Medical  
School, Anzio Road, Observatory, 7925 Cape Town,  
South Africa

Telephone: +27 21 404 7712 (Admin Assist)

Fax: +27 21 406 6250 (Head)

Email (Head): [Virna.Leaner@uct.ac.za](mailto:Virna.Leaner@uct.ac.za)

Website: <http://www.medicalbiochemistry.uct.ac.za/>

## RESEARCH OUTPUT

### Articles in peer-reviewed journals

Adeola, H., Soares, N., Paccez, J.D., Kaestner, L.A., Blackburn, J. and Zerbini, L.F. 2015. Discovery of novel candidate urinary protein biomarkers for prostate cancer in a multethnic cohort of South African patients via label-free mass spectrometry. *Proteomics Clinical Applications*, 9: 597-609.

Amaya-Perilla, C., Marinov, M., Holwell, G., Varsani, A., Stainton, D., Kraberger, S., Dayaram, A., Curtis, N., Cruickshank, R. and Paterson, A. 2015. Comparative study of the Chatham Islands Odonata, II: Morphometric and molecular comparison between *Xanthocnemis tuanuii* Rowe, 1981 and *X. zealandica* (McLachlan, 1873) with notes on the taxonomic position of *Xanthocnemis sinclairi* Rowe, 1987 (Zygoptera: Coenagrionidae). *Journal of the International Dragonfly Fund*, 75: 1-27.

Beckenkamp, A., Willig, J.B., Santana, D.B.S., Nascimento, J.N., Paccez, J.D., Zerbini, L.F., Bruno, A.N.B., Pilger, D.A., Wink, M.R.W. and Buffon, A.B. 2015. Differential expression and enzymatic activity of DPPIV/CD26 affects migration ability of cervical carcinoma Cells. *PLoS One*, 10(7): e0134305(17pp).

Bishop, O., Adebisi, E.F., Alzohairy, A.M., Everett, D., Ghedira, K., Ghouila, A., Kumuthini, J., Mulder, N.J., Panji, S. and Patterson, H.G. 2015. Bioinformatics education-perspectives and challenges out of Africa. *Briefings in Bioinformatics*, 16(2): 355-364.

Boateng, M., Corrigall, A.V., Sturrock, E.D. and Meissner, P.N. 2015. Characterisation of the flavin adenine dinucleotide binding region of *Myxococcus xanthus* protoporphyrinogen. *Biochemistry and Biophysics Reports*, 4: 306-311.

Botha, G., Mulder, N.J., Baichoo, S., Jaufeerally-Fakim, Y., Mungloo-Dilmohamad, Z., Lundin, D., Promponas, V.J. and Ouzounis, C.A. 2015. H3ABioNet computational metagenomics workshop in Mauritius: training to analyse microbial diversity for Africa. *Standards in Genomic Sciences*, 10: 115(4pp).

Brecik, M., Centarova, I., Mukherjee, R., Kolly, S., Huszar, S., Bobovska, A., Kilacskova, E., Mocosova, V., Svetlikova, Z., Sarkan, M., Neres, J., Kordulakova, J., Cole, S. and Mikusova, K. 2015. DprE1 is a vulnerable tuberculosis drug target due to its cell wall localization. *Journal of the American Chemical Society*, 10: 1631-1636.

Brown, J.K., Zerbini, F.M., Navas-Castillo, J.K., Moriones, E., Ramos-Sobrinho, R.R., Silva, J.C.F.S., Fiallo-Olive, E.F., Bridson, R., Hernandez-Zepeda, C., Idris, A., Malathi, V.G., Martin, D.P., Rivera-Bustamante, R., Ueda, E.S. and Varsani, A. 2015. Revision of Begomovirus taxonomy based on pairwise sequence comparisons. *Archives of Virology*, 160: 1593-1619.

Budd, A., Corpas, M., Brazas, M.D., Fuller, J.C., Goecks, J., Mulder, N.J., Michaut, M., Ouellette, B.F., Pawlik, A. and Blomberg, N. 2015. A quick guide for building a successful bioinformatics community. *Plos Computational Biology*, 11(2): e1003972(11pp).

Calder, B., Soares, N., De Kock, E.A. and Blackburn, J. 2015. Mycobacterial proteomics: analysis of expressed proteomes and post-translational modifications to identify candidate virulence factors. *Expert Review of Proteomics*, 12(1): 21-35.

Chimusa, E.R., Mbiyavanga, M., Masilela, V.M. and Kumuthini, J. 2015. Broadband bioinformatics skills transfer with the Knowledge Transfer Programme (KTP): educational model for upliftment and sustainable development. *Plos Computational Biology*, 11(11): e1004512(9pp).

Chimusa, E.R., Meintjes, A., Tchanga, M., Mulder, N.J., Seoighe, C., Soodyall, H. and Ramesar, R.S. 2015. A genomic portrait of haplotype diversity and signatures of selection in indigenous Southern African populations. *Plos Genetics*, 11(3): e1005052(28pp).

Collings, D.A., Collings, B.G., Julian, L., Kurenbach, B. and Varsani, A. 2015. Genome sequences of beak and feather disease virus in urban rainbow Lorikeets (*Trichoglossus haematodus*). *Genome Announcements*, 3(2): e00283-15(2pp).

Coulibaly, S.T., Rossolillo, P., Winter, F., Kretzschmar, F., Braye, M., Martin, D.P., Lener, D. and Negroni, M. 2015. Potent sensitisation of cancer cells to anticancer drugs by a quadruple mutant of the Human Deoxycytidine Kinase. *PLoS One*, 10(10): e0140741(22pp).

Cremer, C., Braun, H., Mladenov, R., Schenke, L., Cong, X., Jost, E., Brmmendorf, T.H., Fischer, R., Carloni, P.,



- Barth, S. and Nachreiner, T. 2015. Novel angiogenic mutants with increased cytotoxicity enhance the depletion of pro-inflammatory macrophages and leukemia cells ex vivo. *Cancer Immunology Immunotherapy*, 64: 1575-1586.
- Crum, M.A., Park, J.M., Mulelu, A., Sewell, B.T. and Benedik, M.J. 2015. Probing C-terminal interactions of the *Pseudomonas stutzeri* cyanide-degrading CynD protein. *Applied Microbiology and Biotechnology*, 99: 3093-3102.
- Crum, M.A., Park, J.M., Sewell, B.T. and Benedik, M.J. 2015. C-terminal hybrid mutant of *Bacillus pumilus* cyanide dihydratase dramatically enhances thermal stability and pH tolerance by reinforcing oligomerization. *Journal of Applied Microbiology*, 118: 881-889.
- Dandara, C., Mpye, K., Agenbag, G., Skelton, M., Zaahl, M., Masimirembwa, C.M., Mulder, N.J., Warnich, L. and Pepper, M.S. 2015. Biotechnology innovators to convene in Cape Town, South Africa: pharmacogenetics and precision medicine conference (April 7 - 9, 2016). *Omics-A Journal of Integrative Biology*, 19(12): 731-732.
- Dayaram, A., Goldstien, S., Arguello-Astorga, G.R., Zawar-Reza, P., Gomez, C., Harding, J.S. and Varsani, A. 2015. Diverse small circular DNA viruses circulating amongst estuarine molluscs. *Infection Genetics and Evolution*, 31: 284-295.
- Dayaram, A., Piasecki, T., Chrzastek, K., White, R., Julian, L., Van Bysterveldt, K.A. and Varsani, A. 2015. Avian polyomavirus genome sequences recovered from parrots in captive breeding facilities in Poland. *Genome Announcements*, 3: e00986-15(2pp).
- Dayaram, A., Potter, K., Pailles, R., Marinov, M., Rosenstein, D.D. and Varsani, A. 2015. Identification of diverse circular single-stranded DNA viruses in adult dragonflies and damselflies (Insecta: Odonata) of Arizona and Oklahoma, USA. *Infection Genetics and Evolution*, 30: 278-287.
- de Vasconcellos, J.F., Laranjeira, A.B., Leal, P.C., Bhasin, M.K., Zenatti, P.Z., Nunes, R.J., Yunes, R.A., Nowill, A.E., Libermann, T.A., Zerbini, L.F. and Yunes, A. 2015. SB225002 induces cell death and cell cycle arrest in acute lymphoblastic leukemia cells through the activation of GLIPR1. *PLoS One*, 10(8): e0134783(19pp).
- de Vries, J., Tindana, P., Littler, K., Ramsay, M., Rotim, C., Abayomi, A., Mulder, N.J. and Mayosi, B.M. 2015. The H3Africa policy framework: Negotiating fairness in genomics. *Trends in Genetics*, 31(3): 117-119.
- Djansugurova, L., Zhunussova, G., Khussainova, E., Iksan, O., Afonin, G., Kaidarova, D. and Parker, M.I. 2015. Association of DCC, MLH1, GSTT1, GSTM1, and TP53 gene polymorphisms with colorectal cancer in Kazakhstan. *Tumor Biology*, 36: 279-289.
- Dzobo, K., Vogelsang, M.V. and Parker, M.I. 2015. Wnt/-Catenin and MEK-ERK signaling are required for fibroblast-derived extracellular matrix-mediated endoderm differentiation of embryonic stem cells. *Stem Cell Reviews and Reports*, 11: 761-773.
- Ershova, E.V., Dalton, T., Ershova, J., Tupasi, T., Caoili, J.C., Van der Walt, M., Kvasnovsky, C., Yagui, M., Bayona, J., Contreras, C., Leimane, V., Via, L., Kim, H.J., Akksilp, S., Kazenny, B.J., Volchenkov, G.V., Jou, R., Kliiman, K., Demikhova, O.V. and Cegielski, P.J. 2015. Additional drug resistance of multidrug-resistant tuberculosis in patients in 9 countries. *Emerging Infectious Diseases*, 21(6): 977-983.
- Esmaili, M., Heydarnejad, J., Massumi, H. and Varsani, A. 2015. Analysis of watermelon chlorotic stunt virus and tomato leaf curl Palampur virus mixed and pseudo-recombination infections. *Virus Genes*, 51: 408-416.
- Fahsbender, E., Hewson, I., Rosario, K., Tuttle, A., Varsani, A. and Breitbart, M. 2015. Discovery of a novel circular DNA virus in the Forbes sea star, *Asterias forbesi*. *Archives of Virology*, 160: 2349-2351.
- Farkas, K., Varsani, A. and Pang, L.P. 2015. Adsorption of rotavirus, MS2 bacteriophage and surface-modified silica nanoparticles to hydrophobic matter. *Food and Environmental Virology*, 7: 261-268.
- Farkas, K., Varsani, A., Marjoshi, D., Easingwood, R.E., McGill, E. and Pang, L.P. 2015. Size exclusion-based purification and PCR-based quantitation of MS2 bacteriophage particles for environmental applications. *Journal of Virological Methods*, 213: 135-138.
- Filloux, D., Murrell, S., Koohapitagtam, M.K., Golden, M., Julian, C., Galzi, S.G., Uzest, M.U., Rodier-Goud, M.R., D'hont, A.D., Vernerey, M.S.V., Wilkin, P., Peterschmitt, M., Winter, S.W., Murrell, B., Martin, D.P. and Roumagnac, P. 2015. The genomes of many yam species contain transcriptionally active endogenous geminiviral sequences that may be functionally expressed. *Virus Evolution*, 1(1): 1-17.
- Fortuin, S., Tomazella, G.G., Nagaraj, N., Sampson, S.L., Gey van Pittius, N.C., Soares, N., Wiker, H.G., de Souza, G. and Warren, R.M. 2015. Phosphoproteomics analysis of a clinical *Mycobacterium tuberculosis* Beijing isolate: expanding the mycobacterial phosphoproteome catalog. *Frontiers in Microbiology*, 6(4): 6(12pp).
- Fraser, G.L., Hoveyda, H., Clarke, I.J., Ramaswamy, S., Plant, T.M., Rose, C. and Millar, R.P. 2015. The NK3 receptor antagonist ESN364 interrupts pulsatile LH

secretion and moderates levels of ovarian hormones throughout the menstrual cycle. *Endocrinology*, 156(11): 4214-4225.

Gardner-Lubbe, S. and Dube, F.S. 2015. Visualisation of quadratic discriminant analysis and its application in exploration of microbial interactions. *BioData Mining*, 8: 8(10pp).

Gawande, S.J.G., Gurav, V.S.G., Ingle, A.A.I., Martin, D.P., Asokan, R.A. and Gopal, J.G. 2015. Sequence analysis of Indian iris yellow spot virus ambisense genome segments: evidence of interspecies RNA recombination. *Archives of Virology*, 160: 1285-1289.

Guthrie, A.J.G., Coetzee, P.C., Martin, D.P., Lourens, C.W.L., Venter, E.H.V., Weyer, C.T.W., Joone, C.J., Le Grange, M.L.G., Harper, C.K.H., Howell, P.G.H. and MacLachlan, N.J.M. 2015. Complete genome sequences of the three African horse sickness virus strains from a commercial trivalent live attenuated vaccine. *Genome Announcements*, 3(4): e00814-15(2pp).

Issarow, C., Mulder, N.J. and Wood, R. 2015. Modelling the risk of airborne infectious disease using exhaled air. *Journal of Theoretical Biology*, 372: 100-106.

Jackson, B., Varsani, A., Holyoake, C., Jakob-Hoff, R., Robertson, I., McInnes, K., Empson, R., Gray, R., Nakagawa, K. and Warren, K. 2015. Emerging infectious disease or evidence of endemicity? A multi-season study of beak and feather disease virus in wild red-crowned parakeets (*Cyanoramphus novaezelandiae*). *Archives of Virology*, 160: 2283-2292.

Karaballi, R.A., Nel, A.M.J., Krishnan, S., Blackburn, J. and Brosseau, C.L. 2015. Development of an electrochemical surface-enhanced Raman spectroscopy (EC-SERS) aptasensor for direct detection of DNA hybridization. *Physical Chemistry Chemical Physics*, 17: 21356-21363.

Kraberger, S., Arguello-Astorga, G.R., Greenfield, L.G., Galilee, C., Law, D., Martin, D.P. and Varsani, A. 2015. Characterisation of a diverse range of circular replication-associated protein encoding DNA viruses recovered from a sewage treatment oxidation pond. *Infection Genetics and Evolution*, 31: 73-86.

Kraberger, S., Farkas, K., Bernardo, P.B., Booker, C.B., Arguello-Astorga, G.R., Mesleard, F.M., Martin, D.P., Roumagnac, P. and Varsani, A. 2015. Identification of novel Bromus- and Trifolium-associated circular DNA viruses. *Archives of Virology*, 160: 1303-1311.

Kraberger, S., Kumari, S.G., Hamed, A.A., Gronenborn, B.G., Thomas, J.E., Sharman, M.S., Harkins, G.W., Muhire, B., Martin, D.P. and Varsani, A. 2015. Molecular diversity of chickpea chlorotic dwarf virus in Sudan: high rates of intra-species recombination - a driving

force in the emergence of new strains. *Infection Genetics and Evolution*, 29: 203-215.

Kraberger, S., Mumtaz, H., Claverie, S., Martin, D.P., Briddon, R. and Varsani, A. 2015. Identification of an Australian-like dicot-infecting mastrevirus in Pakistan. *Archives of Virology*, 160: 825-830.

Kumari, S.G., Najjar, A., Timoumi, S., Male, M., Kraberger, S. and Varsani, A. 2015. First report of Chickpea chlorotic dwarf virus naturally infecting chickpea in Tunisia. *New Disease Reports*, 32(16): 16.

Li, Q., Millar, R.P., Clarke, I.J. and Smith, J.T. 2015. Evidence that neurokinin B controls basal gonadotropin-releasing hormone secretion but is not critical for estrogen-positive feedback in sheep. *Neuroendocrinology*, 101(2): 161-174.

Liu, Q., Via, L., Luo, T., Liang, L., Liu, X., Wu, S., Shen, q., Wei, W., Ruan, X., Yuan, X., Zhang, G. and Barry, C. 2015. Within patient microevolution of *Mycobacterium tuberculosis* correlates with heterogeneous responses to treatment. *Scientific Reports*, 5: 17507(8pp).

Lokanga, R., Senejani, A.G., Sweasy, J.B. and Usdin, K.U. 2015. Heterozygosity for a hypomorphic *Pol* mutation reduces the expansion frequency in a mouse model of the fragile X-related disorders. *PLoS Genetics*, 11(4): e1005181(16pp).

Madziva, M., Mkhize, N., Flanagan, C.A. and Katz, A.A. 2015. The carboxy-terminal tail or the intracellular loop 3 is required for -arrestin-dependent internalization of a mammalian type II GnRH receptor. *Molecular and Cellular Endocrinology*, 411: 187-197.

Male, M.F., Kami, V., Kraberger, S. and Varsani, A. 2015. Genome sequences of Poaceae-Associated Gemycircularviruses from the Pacific Ocean Island of Tonga. *Genome Announcements*, 3(5): e01144-15(2pp).

Martin, D.P., Murrell, B., Golden, M., Muhire, B. and Khoosal, A. 2015. RDP4: Detection and analysis of recombination patterns in virus genomes. *Virus Evolution*, 1(1): 1-5.

Masuyer, G., Douglas, R., Sturrock, E.D. and Acharya, K.R. 2015. Structural basis of Ac-SDKP hydrolysis by angiotensin-I converting enzyme. *Scientific Reports*, 5: 13742(12pp).

Matejcic, M. and Parker, M.I. 2015. Gene-environment interactions in esophageal cancer. *Critical Reviews in Clinical Laboratory Sciences*, 52(5): 211-231.

Matejcic, M., Vogelsang, M., Wang, Y. and Parker, M.I. 2015. NAT1 and NAT2 genetic polymorphisms and environmental exposure as risk factors for oesophageal squamous cell carcinoma: a case-control study. *BMC Cancer*, 15: 150(14pp).

- Mauger, D.M., Golden, M., Yamane, D., Williford, S., Lemon, S.M., Martin, D.P. and Weeks, K.M. 2015. Functionally conserved architecture of hepatitis C virus RNA genomes. *Proceedings of the National Academy of Sciences of the United States of America*, 112(12): 3692-3697.
- Mayevu, N., Choe, H., Abagyan, R., Seong, J.Y., Millar, R.P., Katz, A.A. and Flanagan, C.A. 2015. Histidine7.36(305) in the conserved peptide receptor activation domain of the gonadotropin releasing hormone receptor couples peptide binding and receptor activation. *Molecular and Cellular Endocrinology*, 402: 95-106.
- McInnes, A.M., Khoosal, A., Murrell, B., Merkle, D., Lacerda, M., Nyengera, R., Coetzee, J., Edwards, L., Ryan, P.G., Rademan, J., van der Westhuizen, J. and Pichegru, L. 2015. Recreational fish-finders-an inexpensive alternative to scientific echosounders for unravelling the links between marine top predators and their prey. *PLoS One*, 10(11): e0140936(18pp).
- Medina, C.G.V.M., Martin, D.P. and Lambertini, P.M.L.L. 2015. Tomato mottle wrinkle virus, a recombinant begomovirus infecting tomato in Argentina. *Archives of Virology*, 160: 581-585.
- Millar, R.P. 2015. New Insights into GnRH Neuron Development, Programming and Regulation in Health and Disease. *Neuroendocrinology*, 102(3): 181-183.
- Millar, R.P. and Babwah, A.V. 2015. KISS1R: Hallmarks of an effective regulator of the Neuroendocrine axis. *Neuroendocrinology*, 101: 193-210.
- Mladenov, R., Hristodorov, D., Cremer, C., Hein, L., Kreutzer, F., Stroisch, T., Niesen, J., Brehm, H., Blume, T., Brummendorf, T., Jost, E., Thepen, T., Fischer, R., Stockmeyer, B. and Barth, S. 2015. The Fc-alpha receptor is a new target antigen for immunotherapy of myeloid leukemia. *International Journal of Cancer*, 137: 2729-2738.
- Moon, M.J., Lee, Y.N., Park, S., Reyes-Alcaraz, A., Hwang, J.I., Millar, R.P., Choe, H. and Seong, J.Y. 2015. Ligand binding pocket formed by evolutionarily conserved residues in the Glucagon-like Peptide-1 (GLP-1) receptor core domain. *Journal of Biological Chemistry*, 290(9): 5696-5706.
- Mulder, N.J., Atwood, T.K.A., Bongcam-Rudloff, E., Brazas, M.D., Corpas, M.C., Gaudet, P.G., Lewitter, F.L., Palagi, P.M.P., Schneider, M.V.S., van gelder, C.W.G. and The Goblet Consortium, 2015. GOBLET: the Global Organisation Bioinformatics Learning, Education and Training. *PLoS Computational Biology*, 11(4): e1004143(10pp).
- Murrell, B., Weaver, S., Smith, M.D., Wertheim, J.O., Murrell, S., Aylward, A., Eren, K., Pollner, T., Martin, D.P., Smith, D., Scheffler, K.S. and Kosakovsky Pond, S.L. 2015. Gene-wide identification of episodic selection. *Molecular Biology and Evolution*, 32(5): 1365-1371.
- Nakedi, K.N., Nel, A.M.J., Garnett, S., Blackburn, J. and Soares, N. 2015. Comparative Ser/Thr/Tyr phosphoproteomics between two mycobacterial species: the fast growing *Mycobacterium smegmatis* and the slow growing *Mycobacterium bovis* BCG. *Frontiers in Microbiology*, 6: 237(12pp).
- Nel, A.M.J., Garnett, S., Blackburn, J. and Soares, N. 2015. Comparative reevaluation of FASP and enhanced FASP methods by LC - MS/MS. *Journal of Proteome Research*, 14: 1637-1642.
- Oppong, A., Offei, S.K., Ofori, K., Adu-Dapaah, H., Lamtey, J., Kurenbach, B., Walters, M., Shepherd, D.N., Martin, D.P. and Varsani, A. 2015. Mapping the distribution of maize streak virus genotypes across the forest and transition zones of Ghana. *Archives of Virology*, 160(2): 483-492.
- Paccez, J.D., Duncan, K., Correa, R.G., Libermann, T.A., Parker, M.I., Zerbini, L.F. and Vava, A. 2015. Inactivation of GSK3 and activation of NF-B pathway via Axl represents an important mediator of tumorigenesis in esophageal squamous cell carcinoma. *Molecular Biology of the Cell*, 26: 821-831.
- Peralta, G., Frost, C., Didham, R., Varsani, A. and Tylianakis, J.M. 2015. Phylogenetic diversity and co-evolutionary signals among trophic levels change across a habitat edge. *Journal of Animal Ecology*, 84: 364-372.
- Phillips, P., McGrath, E., Sekar, D., Sookhayi, R., Govender, D., Mohamed, Z., Zerbini, L.F. and Naidoo, R. 2015. MicroRNA 21 expression levels in HIV negative and HIV positive diffuse large B cell Lymphoma. *Hereditary Genetics: Current Research*, 4(2): 1000143(4pp).
- Prescott, N.J., Lehne, B., Stone, K., Lee, J.C., Taylor, K., Knight, J., Papouli, E., Mirza, M., Simpson, M.A., Spain, S.L., Lu, G., Fraternali, F., Bumpstead, S.J., Gray, E., Amar, A., Bye, H., Green, P., Chung-Faye, G., Hayee, B., Pollok, R., Satsangi, J., Parkes, M., Barrett, J.C., Mansfield, J.C., Sanderson, J., Lewis, C.M., Weale, M.E., Schlitt, T., Mathew, C. and UK IBD Genetics Consortium. 2015. Pooled sequencing of 531 genes in inflammatory bowel disease identifies an associated rare variant in BTNL2 and implicates other immune related genes. *PLoS Genetics*, 11(2): e1004955(19pp).
- Raimondo, J.V., Burman, R., Katz, A.A. and Akerman, C.J.A. 2015. Ion dynamics during seizures. *Frontiers in Cellular Neuroscience*, 9: 419(14pp).
- Robinson, A.M., Zhao, L., Alam, M.Y.S., Bhandari, P., Harroun, S.G., Dendukuri, D., Blackburn, J. and Brosseau, C.L. 2015. The development of "fab-chips"

as low-cost, sensitive surface-enhanced Raman spectroscopy (SERS) substrates for analytical applications. *Analyst*, 140: 779-785.

Roossinck, M.J.R., Martin, D.P. and Roumagnac, P. 2015. Plant virus metagenomics: advances in virus discovery. *Phytopathology*, 105: 716-727.

Rosario, K., Seah, Y.M., Marr, C., Varsani, A., Kraberger, S., Stainton, D., Moriones, E., Polston, J.E., Duffy, S. and Breitbart, M. 2015. Vector-enabled metagenomic (VEM) surveys using whiteflies (Aleyrodidae) reveal novel begomovirus species in the new and old worlds. *Viruses-Basel*, 7: 5553-5570.

Rosenberg, A., Soufi, B., Ravikumar, V., Soares, N., Krug, K., Smith, Y., Macek, B. and Ben-Yehuda, S. 2015. Phosphoproteome dynamics mediate revival of bacterial spores. *BMC Biology*, 13: 76(19pp).

Roumagnac, P., Granier, M., Bernardo, P.B., Deshoux, M.D., Ferdinand, R.F., Galzi, S.G., Fernandez, W., Julian, C., Abt, I.A., Filloux, D., Mesleard, F.M., Varsani, A., Blanc, S.B., Martin, D.P. and Peterschmitt, M. 2015. Alfalfa leaf curl virus: an aphid-transmitted geminivirus. *Journal of Virology*, 89(18): 9683-9688.

Sales, K.J., Klein, T. and Katz, A.A. 2015. Regulation of HIV receptor expression in cervical epithelial cells by Gram-negative bacterial lipopolysaccharide. *SAMJ South African Medical Journal*, 105(1): 56-61.

Schafer, G., Blumenthal, M. and Katz, A.A. 2015. Interaction of human tumor viruses with host cell surface receptors and cell entry. *Viruses-Basel*, 7: 2592-2617.

Schafer, G., Hitchcock, J.K., Shaw, T., Katz, A.A. and Parker, M.I. 2015. A novel role of annexin A2 in human type I collagen gene expression. *Journal of Cellular Biochemistry*, 116: 408-417.

Sharp, S., Poglitsch, M., Zilla, P., Davies, N.H. and Sturrock, E.D. 2015. Pharmacodynamic effects of C-domain-specific ACE inhibitors on the renin-angiotensin system in myocardial infarcted rats. *Journal of the Renin-Angiotensin-Aldosterone System*, 16(4): 1149-1158.

Shuro, I., Kobayashi, S., Nakamura, T. and Tsuzaki, K. 2015. The effects of Si and Al alloying on / phase equilibria in Fe-Cr-Ni-Mn based ternary and quaternary systems. *Journal of Phase Equilibria and Diffusion*, 36(1): 53-59.

Singh, V., Brecik, M., Mukherjee, R., Evans, J., Vetlkov, Z., Blako, J., Surade, S., Blackburn, J., Warner, D., Mikuov, K. and Mizrahi, V. 2015. The complex mechanism of antimycobacterial action of 5-Fluorouracil. *Chemistry & Biology*, 22: 63-75.

Song, T., Lee, M., Jeon, H.S., Park, Y., Dodd, L.E., Dartois, V., Follmann, D., Wang, J., Cai, Y., Goldfeder,

L.C., Olivier, K., Xie, Y., Via, L., Cho, S.N., Barry, C. and Chen, R.Y. 2015. Linezolid through concentrations correlate with mitochondrial toxicity-related adverse events in the treatment of chronic extensively drug-resistant Tuberculosis. *EBioMedicine*, 2: 1627-1633.

Stainton, D., Halafihi, M., Collins, D.A. and Varsani, A. 2015. Genome of Banana streak MY virus from the Pacific Ocean island of Tonga. *Genome Announcements*, 3: e00543-15(2pp).

Stainton, D., Martin, D.P., Muhire, B., Ioloheia, S., Halafihi, M., Lepoint, P., Blomme, G., Crew, K., Sharman, M.S., Kraberger, S., Dayaram, A., Walters, M. and Varsani, A. 2015. The global distribution of Banana bunchy top virus reveals little evidence for frequent recent, human-mediated long distance dispersal events. *Virus Evolution*, 1(1): vev009(16pp).

Stenzel, T.S., Farkas, K. and Varsani, A. 2015. Genome of a diverse Goose circovirus recovered from greylag goose. *Genome Announcements*, 3: e00767-15(2pp).

Stringer, T., Guzgay, H., Combrinck, J.M., Hopper, M., Hendricks, D.T., Smith, P.J., Land, K.M., Egan, T.J. and Smith, G.S. 2015. Synthesis, characterization and pharmacological evaluation of ferrocenyl azines and their rhodium(I) complexes. *Journal of Organometallic Chemistry*, 788: 1-8.

Stringer, T., Taylor, D., Guzgay, H., Shokar, A., Au, A., Smith, P.J., Hendricks, D.T., Land, K.M., Egan, T.J. and Smith, G.S. 2015. Polyamine quinoline rhodium complexes: synthesis and pharmacological evaluation as antiparasitic agents against plasmodium falciparum and trichomonas vaginalis. *Dalton Transactions*, 44: 14906-14917.

Ten Haaf, A., Pscherer, S.P., Fries, K.F., Barth, S., Gattenlohner, S.G. and Tur, M.K.T. 2015. Phage display-based on-slide selection of tumor-specific antibodies on formalin-fixed paraffin-embedded human tissue biopsies. *Immunology Letters*, 166: 65-78.

Tongo Passo, A., Dorfman, J., Abrahams, M.H., Mpoudi-Ngole, E., Burgers, W. and Martin, D.P. 2015. Near full-length HIV type 1M genomic sequences from Cameroon: evidence of early diverging under-sampled lineages in the country. *Evolution, Medicine & Public Health*, 25(1): 254-265.

Tongo Passo, A., Essomba, R., Nindo, F., Abrahams, F., Nanfack, A.J.N., Fokam, J., Takou, D.T., Torimiro, J.N.T., Mpoudi-Ngole, E., Burgers, W., Martin, D.P. and Dorfman, J. 2015. Phylogenetics of HIV-1 subtype G env: greater complexity and older origins than previously reported. *Infection Genetics and Evolution*, 35: 9-18.

Valley-Omar, Z., Nindo, F., Mudau, M., Hsiao, N.-Y. and Martin, D.P. 2015. Phylogenetic exploration of nosocomial transmission chains of 2009 Influenza A/H1N1 among children admitted at Red Cross War Memorial Children's Hospital, Cape Town, South Africa in 2011. *PLoS One*, 10(11): e0141744(16pp).

van der Goot, A.C., Martin, G.B., Millar, R.P., Paris, M.C.J. and Ganswindt, A. 2015. Profiling patterns of fecal 20-oxopregnane concentrations during ovarian cycles in free-ranging southern white rhinoceros (*Ceratotherium simum simum*). *Animal Reproduction Science*, 161: 89-95.

van Kesteren, F., Piggott, K.J., Bengui, T., Kubri, S.B., Mastin, A., Sillero-Zubiri, C., Paris, M., Millar, R.P., MacDonald, D.W., Shiferaw, F. and Craig, P.S. 2015. Helminth parasites in the endangered Ethiopian wolf, *Canis simensis*. *Journal of Helminthology*, 89: 487-495.

Varsani, A., Porzig, E., Jennings, S., Kraberger, S., Farkas, K., Julian, L., Massaro, M.M., Ballard, G.B. and Ainley, D. 2015. Identification of an avian polyomavirus associated with Ad lie penguins (*pygoscelis adeliae*). *Journal of General Virology*, 96: 851-857.

Viljoen, I.M., van Helden, P. and Millar, R.P. 2015. *Mycobacterium bovis* infection in the lion (*Panthera leo*): current knowledge, conundrums and research challenges. *Veterinary Microbiology*, 177: 252-260.

Viljoen, K., Dakshinamurthy, A., Goldberg, P.A. and Blackburn, J. 2015. Quantitative profiling of colorectal cancer-associated bacteria reveals associations between *Fusobacterium* spp., enterotoxigenic *Bacteroides fragilis* (ETBF) and clinicopathological features of colorectal cancer. *PLoS One*, 10(3): e0119462(21pp).

Zhao, L., Blackburn, J. and Brosseau, C.L. 2015. Quantitative detection of uric acid by electrochemical-surface enhanced raman spectroscopy using a multilayered Au/Ag substrate. *Analytical Chemistry*, 87: 441-447.

Zhunossova, G., Djansugurova, L., Khussainova, E., Zhunusbekova, B., Afonin, G., Khaidarova, D., Matejcic, M. and Parker, M.I. 2015. K-ras codon 12 and not TP53 mutations are predominant in advanced colorectal cancers. *SAMJ South African Medical Journal*, 105(8): 670-674.

Zmora, N., Stubblefield, J.D., Wong, T., Levavi-Sivan, B., Millar, R.P. and Zohar, Y. 2015. Kisspeptin antagonists reveal Kisspeptin 1 and Kisspeptin 2 differential regulation of reproduction in the Teleost, *Morone saxatilis*. *Biology of Reproduction*, 93(3): 76(12pp).

# Department of Medicine

## Research Report 2015

**Head of Department: Professor Bongani Mayosi**

## Departmental Profile

The Department of Medicine is a large clinical department which plays a leading role in medical education and research, and provides clinical services to the communities of the Western Cape and, in the case of our highly specialised services, to patients throughout southern Africa. The Department consists of 19 clinical and service divisions, 10 major research units, and four affiliated departments of medicine at Mitchell's Plein, New Somerset, Mitchell's Plein District, George, Brooklyn Chest, II Military, and Victoria hospitals. Each day, members of the department treat an average of 2,000 patients in our clinics, admit about 100 patients to our hospital services and perform over 210 medical procedures. The department offers a number of highly specialised services that are unique nationally: allergology and clinical immunology; porphyria; bone marrow, heart, kidney, and liver transplantation; cardiac electrophysiology; endobronchial ultrasound guided bronchoscopy; and double balloon enteroscopy for visualisation of the small bowel.

There are 109 registrars and senior registrars who are training in various disciplines, 38 of whom are from other African countries. The department produces formularies and guidelines that are used in most health facilities in South Africa, such as the *South African Medicines Formulary* and the *Practical Approach to Care Kit (PACK)*.

## Departmental Statistics

### Permanent and Long-Term Contract Staff

Professors	19
Associate Professors	12
Senior Lecturers	29
Lecturers	28
Administrative and clerical staff	157
<b>Total</b>	<b>245</b>

## Emeritus and Honorary Staff

Emeritus Professors	7
Emeritus Associate Professors	6
Honorary Professors	14
Honorary Associate Professors	8
Honorary Senior Lecturers	28
Honorary Lecturers	4
Honorary Research Associates	16
<b>Total</b>	<b>83</b>

## Students

Doctoral	52
Masters	19
Undergraduates	1275
<b>Total</b>	<b>1346</b>

## Research Fields and Staff

See Divisions and Research Units within the Department

## Contact Details

Postal Address: Department of Medicine, Faculty of Health Sciences, University of Cape Town, Observatory 7925, Cape Town  
Telephone: +27 21 406 6200  
Fax: +27 21 448 6815  
Email: [nandie.makatesi@uct.ac.za](mailto:nandie.makatesi@uct.ac.za)  
Website: [www.medicine.uct.ac.za](http://www.medicine.uct.ac.za)

# Department of Medicine

## DIVISION OF CARDIOLOGY

**Head of Division: Professor Mpiko Ntsekhe**

## Divisional Profile

There are 2 clinical research streams in the Division of Clinical Cardiology: investigator-led cross-disciplinary collaborative research projects; and industry-funded multi-centre pharmacological and device-based interventional studies.

Within the first clinical research theme, focus areas of research over the last decade have included: 1] pericardial disease; 2] rheumatic heart disease; 3] dilated cardiomyopathy; 4] arrhythmogenic right ventricular dysplasia 5] impact of HIV and tuberculosis on Cardiac Disease in Africa; 6] cardiac disease in pregnancy.

Industry-funded research conducted through the Cardiac Clinic research unit have focused on: 1] novel pharmacological interventions to treat heart failure, atrial fibrillation, coronary artery disease and related risk factors; 2] device based interventions to treat coronary artery disease, rhythm abnormalities, heart failure, and hypertension 3] prospective registries on infective endocarditis and atrial fibrillation.

## Permanent and Long-Term Contract Staff

Professors	3
Associate Professors	1
Senior Lecturer	3
Research Fellows/Officers	2
Medical Research Officer	1
Registrars	5
Research Coordinator Cardiac Clinic Research Unit	1
Research Nurse Cardiac Clinic Research Unit	1
Research Pharmacist	1
<b>Total</b>	<b>18</b>

## Emeritus and Honorary Staff

Emeritus Professors	2
Honorary professor	3
Honorary Lecturers	3
<b>Total</b>	<b>8</b>

## Students and Postdoctoral Fellows

Postdoctoral Fellow	1
Doctoral	5
Masters	8
<b>Total</b>	<b>14</b>

### CHHIBA, M

(Discovery Fellow)  
Immunology of Mycobacterium W

### MOSES, P

(Discovery Fellow)  
Natural History of HIV Cardiomyopathy

## Contact Details

Postal Address: Division of Cardiology UCT, E-17/25,  
New Groote Schuur Hospital, Anzio Road,  
Observatory 7925  
Telephone: +27 21 404 6084  
Fax: +27 21 448 7062  
Email: [mpiko.ntsekhe@uct.ac.za](mailto:mpiko.ntsekhe@uct.ac.za)  
Website: [www.medicine.uct.ac.za/med/divisions/cardiology](http://www.medicine.uct.ac.za/med/divisions/cardiology)

## Research Fields and Staff

### NTSEKHE, MN

Director of the Cardiac Clinic Research Unit  
Pericardial disease, impact of HIV/TB on  
cardiovascular disease, coronary artery disease;  
Burden of cardiovascular disease in sub-Saharan  
Africa; Prospective registries of cardiovascular  
disease

### MAYOSI, BMM – HEAD MAYOSI RESEARCH UNIT

Head Mayosi Research Unit  
Rheumatic heart disease, pericardial disease,  
cardiomyopathy, genetics of cardiovascular disease  
in Africa, global burden of cardiovascular disease

### SLIWA, K

Director Hatter Institute for Research in Africa  
Heart failure, cardiac disease in pregnancy and the  
peripartum period, rheumatic heart disease, global  
burden of cardiovascular disease

### CHIN, A

Rheumatic heart disease, ARVC; Interventions to  
lower sudden cardiac death; Use of devices in heart  
failure, and diseases of rhythm abnormalities and  
pacing

### PANDIE, S

Pericardial disease, coronary artery disease

### CUPIDO, B

Rheumatic heart disease, congenital heart disease

### NTUSI, N

Magnetic resonance imaging in heart muscle  
disease, pericardial disease, and inflammatory  
diseases of the heart, HIV and the heart

# Department of Medicine

## Hatter Institute for Cardiology Research

**Director: Professor Karen Sliwa-  
Hahnle**

### Institute Profile

Under the directorship of Professor Karen Sliwa, the Hatter Institute for Cardiovascular Research in Africa (HICRA) has been expanded from basic science to encompass more clinical research. Our focus is (1) to investigate cardiac disease interlinked with pregnancy (Cardiac Disease and Maternity Group); (2) to undertake African population studies with a focus on translational research (Heart of Africa studies); (3) to develop awareness projects linked to health education in South Africa and Africa (HEDU-Africa), (4) to study the mechanisms of protecting the heart against insults such as lack of blood flow (Cardiac Protection Group) and (5) to study the genetic basis of cardiomyopathy and other forms of heart disease (Cardiovascular Genetics Group). Our vision is to facilitate national and international collaborations in its fields of expertise.

HICRA trains a number of Honours, Masters and PhD students in cardio-protection, cardiac signalling, cardiovascular genetics, acute heart failure, pulmonary arterial hypertension and translational preventative research. Several students from other African countries, including Mozambique, Nigeria, Burundi, Zimbabwe, Ruanda and Cameroon, are currently undertaking PhD training under the supervision of Professor Sliwa, Professor Lecour, Professor Mayosi and Professor Opie

## Institute Statistics

### Permanent and Long-Term Contract Staff

Director/Professor	1
Associate Professor	1
Clinical Staff	2
Senior Lecturers	2
Senior Researcher	1
Research Staff	6
Laboratory Assistants	2
Administrative and Clerical Staff	1
<b>Total</b>	<b>16</b>

### Emeritus and Honorary Staff

Emeritus Professor	1
Honorary Professors	4
<b>Total</b>	<b>5</b>

### Students and Postdoctoral Fellows

Postdoctoral Fellow	1
Doctoral	11
Masters	3
<b>Total</b>	<b>15</b>

## Research Fields and Staff

### **PROFESSOR KAREN SLIWA-HAHNLE**

(Cardiac Disease in Maternity and Heart of Africa studies)

Cardiac disease in pregnancy and heart failure.

### **EMERITUS PROFESSOR LIONEL OPIE**

(Ischaemia)

Delineation of cellular and molecular mechanisms promoting cardiac protection

### **PROFESSOR BONGANI MAYOSI**

(Genetics Group Leader)

Epidemiology, genetics, and treatment of non-ischaemic heart disease



### **ASSOCIATE PROFESSOR SANDRINE LECOUR**

(Cardioprotection Group leader)

Delineation of cellular and molecular mechanisms promoting cardiac protection with special reference to Tumour Necrosis Factor alpha

### **MS TASNEEM ADAM**

The anti-aging molecules sirtuins and their role in cardioprotection

## **Contact Details**

Postal Address: 4<sup>th</sup> Floor Chris Barnard Building,  
Faculty of Health Sciences, University of Cape  
Town, Private Bag X3, Observatory, 7925  
Telephone: +27 21 406 6358  
Fax: +27 21 650 4101  
Email: [Karen.Sliwa-Hahnle@uct.ac.za](mailto:Karen.Sliwa-Hahnle@uct.ac.za)  
Website: [www.hatter.uct.ac.za](http://www.hatter.uct.ac.za)

# **Department of Medicine**

## **DIVISION OF HAEMATOLOGY AND UCT LEUKAEMIA UNIT**

**Head of Division: Professor Nicolas  
Novitzky**

### **Divisional Profile**

The clinical services are organised under the umbrella of the Department of Medicine, while the laboratory diagnostic sections are under the Department of Pathology and the National Health Laboratory Service. The Haematology section of the laboratory was accredited with SANAS 3 years ago and accreditation was confirmed last year.

Training is given at the level of Masters and PhD in cell biology. The Leukaemia Unit established within the division has now been approved by the University Research Committee as a research unit. The research laboratory located at the medical school campus is well equipped to support undergraduate and postgraduate pathology and science students. Dr Shaheen Mowla has joined Dr Karen Shires to expand the molecular and cellular research in the Leukaemia Unit laboratory. The main objective will be to pursue further research into the area normal and malignant haematopoiesis, detection of minimal residual disease in patients with leukaemia, cellular therapies and stem cell transplantation.

## Divisional Statistics

### Permanent and Long-Term Contract Staff

Professor	1
<b>Clinical Service</b>	
Senior Specialists	2
Clinical Registrars	3
Senior House Officers	2
Chief Professional Nurse	2
Administrative and clerical staff	3
<b>Diagnostic Service</b>	
Senior Pathologist	1
Pathologists	2
Pathologist part-time	1
Scientist	1
Pathology Registrars	5
Laboratory Manager	1
Medical Technologists	17
Technicians	4
<b>UCT Leukaemia Unit</b>	
Scientist	1
Research Officer	1
Research Technologist	1
Clinical Research Co-Ordinator	1
Administrative and clerical staff	1
Laboratory assistants (medical school)	2
<b>Total</b>	<b>52</b>

### Students

Doctoral	2
Masters	3
MMed	2
Honours	1
<b>Total</b>	<b>8</b>

## Research Fields and Staff

### PROFESSOR NICOLAS NOVITZKY

Haematopoietic stem cell biology; clonogenic assays; haematopoietic stem cell transplantation; immune reconstitution; haematological malignancies

### DR CECILE DU TOIT

Haematopoietic stem cell transplantation; haematological malignancies; haemophilia

### DR. ESTELLE VERBURGH

Myelodysplastic syndromes; haematological malignancies

### DR MAUREEN STEIN

Haematopoietic stem cell biology

### DR JESSICA OPIE

Molecular biology of neoplasia: chronic myelogenous leukaemia; coagulation abnormalities

### DR KAREN SHIRES

Molecular biology and diagnostics

### DR SHAHEEN MOWLA

Minimal residual disease and flow cytometry.

### MRS RYGANA ABDULLA

Cellular biology of neoplasia; clonogenic assays

## Contact Details

Postal Address: 6<sup>th</sup> Floor, Chris Barnard Building, Faculty of Health Sciences, Anzio Road, Observatory, 7925

Telephone: +27 21 406 6154 / +27 21 404 3073

Fax: +27 21 448 8607

Email: [Coleen.Fredericks@uct.ac.za](mailto:Coleen.Fredericks@uct.ac.za)

Website: <http://www.haematology.uct.ac.za/>

# Department of Medicine

## DIVISION OF CLINICAL PHARMACOLOGY

**Acting Head of Division: Professor Karen Barnes**

### Divisional Profile

The major research thrusts of the division are focused on drugs for malaria, tuberculosis and HIV. The research in these fields is broad and encompasses drug discovery through to pre-clinical and clinical development, pharmacokinetics, pharmacodynamics, pharmacogenomics, clinical trials, pharmacovigilance and pharmaco-economics.

The MRC Collaborating Centre for Optimising Antimalarial Therapy (CCOAT) headed by Prof Karen Barnes is at the forefront of translational *malaria* research that focuses on the development of new antimalarials and improving the availability, dosing and selection of antimalarial drugs, particularly in vulnerable populations (young children, pregnant women, and people with other diseases like HIV/AIDS or malnutrition).

Professor Gary Maartens runs a broad research programme focused on the clinical pharmacology of *HIV and tuberculosis*. A/Prof Helen McIlleron heads our clinical pharmacokinetic group, which conducts studies evaluating pharmacokinetic-pharmacodynamic relationships of anti-tuberculosis and antiretroviral drugs, and the interaction between them in adults and children. The pharmacometric laboratory, headed by Dr Paolo Denti, performs modelling and simulation of pharmacokinetic/pharmacodynamic analyses. Dr Karen Cohen runs a research programme on adverse drug reactions to antiretroviral and anti-tuberculosis drugs.

The *analytical laboratory*, run by A/Prof Peter Smith and Dr Lubbe Wiesner, plays a key research role for drug discovery and development, including measurement of drug concentrations in small animal models and in clinical trial participants. The interdisciplinary H3D Drug Discovery Centre based in the Department of Chemistry has embedded its research in parasitology, ADME and preclinical pharmacokinetics within the Division of Clinical Pharmacology. The analytical laboratory has been awarded funding as an International Pharmacology

Specialty Laboratory from two different NIH groups (ACTG and IMPAACT).

### Divisional Statistics

#### Permanent and Long-Term Contract Staff

Professors	2
Associate Professors	3
Chief / Principal Scientific Officers	9
Senior Lecturers / Senior Research Officers / Consultants	8
Research / Quality Assurance Managers	4
Medical Research Officers	2
Scientific / Scientific / Technical Officers	7
Editor (SAMF)	1
Medicines Information Pharmacists	6
Medical Technicians	6
Registrars	3
Project coordinators	2
Administrative and Clerical Staff	6
Technical / Laboratory Assistants	5
<b>Total</b>	<b>64</b>

#### Honorary Staff

Honorary Professors	2
Honorary Senior Lecturers	1
Honorary Research Associates	1
<b>Total</b>	<b>4</b>

#### Students and Postdoctoral Fellows

Honours	4
MMed (also listed as registrars)	3
MPhil	4
MSc	11
PhD	17
Postdoctoral Fellows	2
<b>Total</b>	<b>41</b>

## Research Fields and Staff

### **BARNES, KI.**

Antimalarial therapy: drug development, pharmacokinetic studies to inform optimal dosing in vulnerable populations, operational and policy research.

### **BLOCKMAN, M.**

Rational and cost-effective prescribing of medicines; drug utilisation review; adverse drug reaction monitoring; drug policy and regulation; human research ethics.

### **COHEN, K.**

Antiretroviral pharmacokinetics, adverse drug reactions, and effectiveness; HIV and non-communicable diseases; anti-tuberculosis drug-induced liver injury; adherence-resistance relationships in antiretroviral therapy

### **DENTI, P.**

Pharmacokinetic and pharmacodynamic modelling of antiretroviral, anti-tuberculosis, and antimalarial drugs.

### **MAARTENS, G.**

Adherence-resistance relationships in antiretroviral therapy; treatment algorithms for HIV-associated tuberculosis; tuberculosis preventive therapy for people living with HIV; pharmacogenomics and adverse drug reactions of antiretrovirals; HIV and non-communicable diseases.

### **MCILLERON, H.**

Pharmacokinetic-pharmacodynamic relationships of anti-tuberculosis and antiretroviral drugs; pharmacogenomics; population pharmacokinetics; drug interactions between antiretrovirals and anti-tuberculosis drugs.

### **SMITH, PJ.**

Pharmacokinetics of anti-tuberculosis and antiretroviral drugs; in vitro antimalarial assays, toxicology, drug development

### **WIESNER, L.**

Pharmacokinetics and pharmacodynamics of new antimalarial and anti-tuberculosis compounds in small animal models; intracellular pharmacokinetics of anti-tuberculosis drugs; bioanalysis of clinical pharmacokinetic studies.

## Contact Details

Postal Address: Division of Clinical Pharmacology, K45, Old Main Building, Groote Schuur Hospital, University of Cape Town, Observatory, 7925

Telephone: +27 21 406 6008

Fax: +27 21 448 1989

Email Administration: [Ruwayda.Philander@uct.ac.za](mailto:Ruwayda.Philander@uct.ac.za)

Email Academic: [Karen.Barnes@uct.ac.za](mailto:Karen.Barnes@uct.ac.za)

Website: [www.medicine.uct.ac.za/med/divisions/pharmacology](http://www.medicine.uct.ac.za/med/divisions/pharmacology)

# Department of Medicine

## Division of Dermatology

**Head of Division: Associate Professor Nonhlanhla Khumalo**

### Divisional Profile

The Division's postgraduate training programme includes 8 registrars, 1 MRC fellow and 2 PhD fellows. The main research contributions of the Division are in the epidemiology, treatment and prevention of hair disorders and drug-induced skin injury. Associate professor Khumalo was awarded a South African Research Chair by the NRF.

### Divisional Statistics

#### Permanent and Long-Term Contract Staff

Associate Professor	1
Senior Lecturers (full-time)	2
Senior Lecturers (part-time, 5/8)	2
(part-time, sessional)	4
Lecturer (part-time, 5/8)	1
(sessional, DOE funds)	1
Research Staff	4
Administrative and Clerical Staff	4
<b>Total</b>	<b>19</b>

#### Emeritus and Honorary Staff

Emeritus Professor	1
Honorary Lecturers	3
<b>Total</b>	<b>4</b>

### Students

Doctoral	3
Masters	9
Undergraduate	784
<b>Total</b>	<b>796</b>

### Research Fields and Staff

#### ASSOCIATE PROFESSOR NONHLANHLA KHUMALO

The epidemiology and treatment of hair and scalp disorders that uniquely affect individuals with afro-textured hair. International collaboration studies – scanning (and transmission) electron microscopy and amino acid analysis of hair. Developing useful hair classification for elucidating the relationship between the pathogenesis of alopecia and hair phenotype.

#### DR RANNAKOE LEHLOENYA

Molecular and genetic aspects of severe cutaneous adverse drug reactions.

### Contact Details

Postal address: G23 Dermatology Clinic, Groote Schuur Hospital, Observatory, 7925, South Africa  
Telephone: +27 21 404 3376  
Fax: +27 21 447 8232  
Email: [dermatol@uct.ac.za](mailto:dermatol@uct.ac.za)  
Website: [www.medicine.uct.ac.za/med/divisions/dermatology](http://www.medicine.uct.ac.za/med/divisions/dermatology)

# Department of Medicine

## DIVISION OF ENDOCRINOLOGY AND DIABETIC MEDICINE

**Head of Division: Professor Naomi Levitt**

### Divisional Profile

The Division of Endocrinology and Diabetes Medicine hosts the Chronic Disease Initiative for Africa, which serves as a regional hub for developing and evaluating models of care and prevention for chronic diseases. Other research interests include the epidemiology of diabetes as part of the H3 Africa study; metabolic consequences of antiretroviral therapy; overlap between infectious and non-communicable diseases in low- and middle-income countries; Addison's disease; thyroid carcinoma; prednisolone pharmacokinetics in tuberculous pericardial effusions; coeliac disease; impact of HIV on thyrotoxicosis; and the genetics of paraganglioma syndromes.

### Divisional Statistics

#### Permanent and Long-Term Contract Staff

Professor	1
Associate Professor	1
Professor (visiting )	1
Senior Lecturers	1
Senior Registrar in Training	3
Part-time senior consultant	1
Diabetes Specialist Nurse	2
Administrative and Clerical Staff	1
<b>Total</b>	<b>11</b>

### Research Fields and Staff

#### PROFESSOR N S LEVITT

Diabetes and hypertension health systems research, diabetes burden of disease, mechanisms underlying the metabolic sequelae of obesity, metabolic consequences of antiretroviral therapy and the interaction between the overlap between infectious and non-communicable diseases in low- and middle-income countries.

#### PROFESSOR K STEYN

Hypertension health systems research, burden of chronic disease

#### ASSOCIATE PROFESSOR I L ROSS

National registry for Study of Addison's Disease and polyglandular autoimmune syndrome

#### DR J DAVE

Metabolic consequences of antiretroviral therapy

### Contact Details

Postal Address: Divisions of Endocrinology and Diabetic Medicine, Department of Medicine, Faculty of Health Sciences, Observatory, 7925

Telephone: +27 21 406 6140

Fax: +27 21 406 6513

Email: [liezel.fisher@uct.ac.za](mailto:liezel.fisher@uct.ac.za)

Webstie: [www.medicine.uct.ac.za/med/divisions/endocrine](http://www.medicine.uct.ac.za/med/divisions/endocrine)

# Department of Medicine

## DIVISION OF GERIATRIC MEDICINE/THE ALBERTINA AND WALTER SISULU INSTITUTE OF AGEING IN AFRICA

**Head of Division of Geriatric Medicine: Professor Marc Combrinck**

**Director of Institute of Ageing in Africa: Associate Professor Sebastiana Kalula**

### Institute Profile

The Albertina and Walter Sisulu Institute of Ageing in Africa (IAA) is a Cross-Disciplinary Group. The IAA represents a coalescence of institute – wide disciplines with a focus on ageing: specifically Geriatric Medicine; Geriatric Neurology; Geriatric Neuropsychology; and Old Age Psychiatry. The International Longevity Centre–South Africa is incorporated in the Institute. The vision of the IAA is to be an academic, clinical, research and policy centre of excellence and relevance in Africa. Its mission is to facilitate the delivery of the highest standard of inter-disciplinary, in-context training for health and allied professionals and evidence-based clinical and social care for older people, whilst undertaking appropriate research and audit upon which policy and planning for older persons may be based. The mission is achieved through inter-disciplinary partnerships and teamwork, and human resources development within current legal, ethical and financial constraints.

### Institute Statistics

#### Permanent and Long-Term Contract Staff

Professor	1
Associate Professor	1
Senior Lecturers	4
Senior Scientific Officer	1
Medical registrars	2
Administrative and Clerical Staff	1
<b>Total</b>	<b>10</b>

#### Honorary Staff

Visiting Researcher	1
Senior Lecturer	1
<b>Total</b>	<b>2</b>

#### Students

Doctoral	2
Masters	8
<b>Total</b>	<b>10</b>

### Research Fields and Staff

#### PROFESSOR MARC COMBRINCK

Neurologist and William Slater Chair of Geriatric Medicine:

Neuro-inflammation and mechanisms of neuro-degeneration with specific reference to cognitive impairment in the elderly and in HIV-associated encephalopathy.

#### ASSOCIATE PROFESSOR SEBASTIANA KALULA

Senior lecturer Department of Medicine and Division of Geriatric Medicine

Epidemiology of falls in older people and quality of care.

#### DR LINDA DE VILLIERS

Senior lecturer Department of Medicine and Division of Geriatric Medicine

Quality, cost, resource utilisation and outcomes of stroke care.

### **ASSOCIATE PROFESSOR KEVIN G.F. THOMAS**

Senior Lecturer, Department of Psychology.  
Geriatric neuropsychology; dementia; impact of stress on memory; impact of life stressors on age-related cognitive decline.

### **ASSOCIATE PROFESSOR JOHN A. JOSKA**

Senior Lecturer, Division of Neuropsychiatry, Department of Psychiatry and Mental Health. Neurocognitive disorders in HIV infection, neurobehavioural aspects of HIV, including adherence, depression and post-traumatic stress disorder (PTSD)

### **DR CELESTE DE JAGER**

Senior Lecturer in Clinical Neurosciences and Clinical Epidemiology  
Neurocognitive disorders (in particular Alzheimer's disease) from a neuropsychological perspective

## **Contact Details**

Postal Address: The Albertina and Walter Sisulu Institute of Ageing in Africa, L51 Old Main Building Groote Schuur Hospital, Observatory, CapeTown, 7925, South Africa

Telephone: +27 21 406 6211

Fax: +27 21 406 6846

Email: [iaa-institute@uct.ac.za](mailto:iaa-institute@uct.ac.za)

Website: <http://www.instituteofageing.uct.ac.za>

# **Department of Medicine**

## **DIVISION OF HEPATOLOGY**

**Head of Division: Associate Professor Wendy Spearman**

### **Divisional Profile**

The Division is involved in a wide range of research activities and interacts with a number of international and local collaborators. The main research areas are: Viral hepatitis; HIV and liver disease; Drug-induced Liver Injury; Autoimmune liver disease; molecular characterisation of acute intermittent porphyric patients and correlating the genetic mutations with the clinical and biochemical presentations; and Acute Liver Failure and Development of bioartificial liver support devices.

### **Divisional Statistics**

#### **Permanent and Long-Term Contract Staff**

Associate Professors	2
Senior Lecturer / Research Officer	1
Senior Research Officer	1
Technical Support Staff	1
Senior Registrar in Training	1
Administrative and Clerical Staff	1
<b>Total</b>	<b>7</b>

#### **Students and Postdoctoral Fellows**

Postdoctoral Fellow	1
Masters	4
<b>Total</b>	<b>5</b>



## Research Fields and Staff

### ASSOCIATE PROFESSOR CWN SPEARMAN

Liver transplantation, viral hepatitis, paediatric liver disease, acute liver failure and bioartificial liver support devices

### ASSOCIATE PROFESSOR MW SONDERUP

HIV and liver disease, drug-induced liver injury, viral hepatitis, porphyria

### DR M SETSHEDI

Hepatocellular Carcinoma, Drug-induced liver injury

## Contact Details

Postal Address: Division of Hepatology, Department of Medicine, University of Cape Town, Medical School, Observatory, 7925

Telephone: +27 21 406 6394

Fax: +27 21 448 6815

Email: [wendy.spearman@uct.ac.za](mailto:wendy.spearman@uct.ac.za)

Website: [www.medicine.uct.ac.za/med/divisions/hepatology](http://www.medicine.uct.ac.za/med/divisions/hepatology)

# Department of Medicine

## DIVISION OF INFECTIOUS DISEASES AND HIV MEDICINE

*(Partners include Desmond Tutu HIV Centre, and the Clinical Infectious Diseases Research Initiative [CIDRI])*

**Head of Division: Professor Marc Mendelson**

## Divisional Profile

The Division plays a leading role in antibiotic stewardship activities in support of the national strategy framework for antibiotic resistance. The Division is also home to the Cape Town GeoSentinel Travel Surveillance Network Site and is a European Society of Clinical Microbiology and Infectious Diseases Collaborating Centre. The major research thrusts of the division are in HIV, Tuberculosis, and Antimicrobial Resistance. Specific research areas are outlined below:

## Divisional Statistics

### Permanent and Long-Term Contract Staff

Professor	4
Associate Professor	1
Senior Lecturers	3
Registrars	1
<b>Total</b>	<b>9</b>

### Honorary Staff

Honorary Professor	2
Honorary Senior Lecturer	2
Honorary Research Associates	1
<b>Total</b>	<b>5</b>

## Research Fields and Staff

### PROFESSOR LINDA GAIL BEKKER

Phase I-III clinical trials in HIV prevention strategies. Research focus on HIV and TB interaction in the field. Operational research interest in antiretroviral programs and adherence strategies and training of lay HIV counsellors. Significant interest in adolescent HIV prevention.

### PROFESSOR CHRIS KENYON

Honorary Professor; HIV and gender dynamics. Emmonsiosis and fungal infections in HIV

### DR TOM BOYLES

Senior Lecturer. Main research area surrounds rational use and development of diagnostics for infectious diseases, including rapid diagnostic tests for Ebola

### DR HELEN STRUTHERS

Honorary Senior Lecturer; main research area in masculinity and HIV in MSM

### DR PRUDENCE IVE

Registrar. Antiretroviral therapy clinical trials

### DR ILAN SCHWARTZ

Honorary Research Associate; Emmonsiosis

### DR SIPHO DLAMINI

Senior Lecturer; research interests in neglected tropical diseases, Hydatid Disease, Leprosy, antiretroviral drug reactions and Infectious Diseases Education

### PROFESSOR STEVE LAWN (HONORARY)

HIV-associated tuberculosis. Tuberculosis and mortality within antiretroviral treatment programmes.

### ASSOCIATE PROFESSOR GRAEME MEINTJES

TB-Immune Reconstitution Inflammatory Syndrome (TB-IRIS), mortality in HIV-tuberculosis coinfection, and cryptococcal meningitis.

### PROFESSOR MARC MENDELSON

Clinical algorithms for HIV patients with suspected tuberculosis, HIV+/HIV+ renal transplantation, Epidemiology and diagnosis of travel-related infections; Antibiotic stewardship interventions.

### DR KEVIN REBE

Senior Lecturer. Men's Health Project – Cape Town. Recruitment and retention strategies for men having sex with men in HIV vaccine research; STDs in MSM; Hepatitis C in MSM

### DR KATALIN WILKINSON

Senior Investigator Scientist at the National Institute for Medical Research, London (Medical Research Council UK), seconded to the Institute of Infectious Disease and Molecular Medicine. Research interest is the immunology of tuberculosis.

### PROFESSOR ROBERT WILKINSON

Director of CIDRI, Wellcome Trust Senior Fellow (Chair of Infectious Diseases) at Imperial College London and an MRC Programme Leader at the National Institute for Medical Research, UK (both posts held at UCT). Major research interest is immunology of tuberculosis.

### PROFESSOR ROBIN WOOD

Director of the Desmond Tutu HIV Centre. Clinical trials of novel antiretroviral drugs; HIV-associated tuberculosis; HIV modelling; large scale rollout of antiretroviral therapy at primary care; mortality within antiretroviral programmes; Tuberculosis transmission.

## Contact Details

Postal Address: Division of Infectious Diseases and HIV Medicine, University of Cape Town, G16/68, New Building, Groote Schuur Hospital, Observatory 7925

Telephone: +27 21 404 5105

Fax: +27 21 406 6184

Email: [marc.mendelson@uct.ac.za](mailto:marc.mendelson@uct.ac.za)

Website: [www.medicine.uct.ac.za/med/divisions/infectious](http://www.medicine.uct.ac.za/med/divisions/infectious)

# Department of Medicine

## DIVISION OF LIPIDOLOGY

**Head of Division: Associate Professor Dirk Blom**

### Divisional Profile

The Department of Medicine houses the Division of Lipidology (Head: Associate Professor D. Blom) while the Lipid Laboratory is located within the Division of Chemical Pathology (Head: Professor A.D. Marais) in the Department of Pathology. The Division of Lipidology in the Department of Medicine performs clinical research including drug development studies with the pharmaceutical industry, and ultrasonography for assessment of carotid intima media thickness. The Lipid laboratory provides specialized diagnostic investigations including determination of lipoprotein particle size by non-denaturing gradient gel electrophoresis, ultracentrifugation and analysis of VLDL composition for the diagnosis of dysbetalipoproteinaemia and genotyping to detect mutations in the LDL-receptor, apolipoproteinE and lipoprotein lipase. More specialized investigations such as measurement of 7-dehydrocholesterol for the diagnosis of Smith-Lemli-Opitz syndrome, measurement of plant sterols for the diagnosis of sitosterolaemia, cell culture and analysis of other genes are performed as required. Pharmaceutical studies investigate novel lipid modifying agents in severe hypercholesterolaemia, management of severe hypertriglyceridaemia, novel anti-diabetic therapies and studies of cardiovascular outcome with novel agents.

## Divisional Statistics

### Permanent and Long-Term Contract Staff

Associate Professor	1
Medical Officers	2
Contract Research Nurses	2
Contract Dietitian	1
Sonographers	1
Laboratory Technologists	1
Technical Support Staff	1
Administrative Staff	1
<b>Total</b>	<b>10</b>

### Students

Masters	1
---------	---

## Research Fields and Staff

### PROFESSOR AD MARAIS

Severe dyslipidaemias including Familial Hypercholesterolaemia, Homozygous Familial Hypercholesterolaemia, Dysbetalipoproteinaemia, Familial chylomicronaemia, Endothelial Lipase mutations and hyperalphalipoproteinaemia, Carotid intima-media thickness in dyslipidaemic patients, Anti-oxidant effects of wine, Plasma PCSK9 levels in familial hypercholesterolaemia

### ASSOCIATE PROFESSOR DJ BLOM

Carotid intima-media thickness in dyslipidaemic patients, Dysbetalipoproteinaemia, Lipodystrophy, Anti-sense oligonucleotides for limiting LDL production in homozygous familial hypercholesterolaemia and refractory heterozygous familial hypercholesterolaemia, Microsomal triglyceride protein inhibition in homozygous familial hypercholesterolaemia, PCSK-9 inhibition for the management of severe hypercholesterolaemia, Lipid metabolism in patients with HIV infection receiving antiretroviral therapy, Glucocorticoid receptor polymorphisms in patients with Addison's disease, Anti-oxidant effects of wine

## Contact Details

Postal Address: Lipidology, 5<sup>th</sup> Level Chris Barnard Building, University of Cape Town, Faculty of Health Science, Anzio Road, Observatory, 7925

Telephone: +27 21 406 6166

Fax: +27 21 406 6396

Email: [elizabeth.phillips@uct.ac.za](mailto:elizabeth.phillips@uct.ac.za);

[dirk.blom@uct.ac.za](mailto:dirk.blom@uct.ac.za)

Website: [www.medicine.uct.ac.za/med/divisions/lipidology](http://www.medicine.uct.ac.za/med/divisions/lipidology)

# Department of Medicine

## DIVISION OF MEDICAL GASTROENTEROLOGY

Head of Gastrointestinal Clinic:  
Professor Sandie Thomson

## Divisional Profile

The Gastrointestinal Clinic is a multi-disciplinary clinical unit consisting of Medical and Surgical components. This report primarily reflects the Medical component. The Clinic carries a large clinical load and offers a number of specialised services, with clinical and applied research interests in: Hepatobiliary disease; Colorectal disease; Oesophageal disease; Inflammatory bowel disease; *H.pylori* related disease; and Nutrition. The Clinic is involved in a number of collaborative research projects.

## Divisional Statistics

### Permanent and Long-Term Contract Staff

Lecturers	5
Research Staff	1
Administrative and Clerical Staff	1
<b>Total</b>	<b>5</b>

### Students

Masters	4
---------	---

## Research Fields and Staff

### DR GILL WATERMEYER

Risk of malignancy in inflammatory bowel disease treated with Azathioprine or 6-Mercaptopurine; Predicting bad outcome in Crohn's disease; drug trials - various

### DR DION LEVIN

Bleeding Peptic Ulcer Disease; *Helicobacter pylori* testing

### DR SABELO HLATSHWAYO

Achalsia

### DR MASHIKO SETSHEDI

Drug induced liver injury.

## Contact Details

Postal Address: GI Clinic, E23, New Main Building, Groote Schuur Hospital, Observatory, 7925

Telephone: +27 21 404 3040

Fax: +27 21 447 0582

Email: [sandie.thomson@uct.ac.za](mailto:sandie.thomson@uct.ac.za)

Website: [www.medicine.uct.ac.za/med/divisions/gastroenterology](http://www.medicine.uct.ac.za/med/divisions/gastroenterology)

# Department of Medicine

## DIVISION OF OCCUPATIONAL MEDICINE

**Head of Division: Professor Rodney Ehrlich**

## Divisional Profile

The Division of Occupational Medicine is a joint division of the School of Public Health and Family Medicine and the Department of Medicine at UCT. The Division runs the Occupational Medicine Clinic at Groote Schuur Hospital, provides diploma (DOH) training to medical practitioners and a postgraduate clinical specialisation in Occupational Medicine, and conducts research into occupational disease causation, risk and means of prevention, workers' compensation, occupational health service provision, and the occupational health needs of health care workers.

## Divisional Statistics

### Permanent and Long-Term Contract Staff

Professors	2
Lecturers / Consultants (part-time)	1
Administrative and Clerical Staff	1
<b>Total</b>	<b>4</b>

### Honorary and Emeritus staff

Honorary or Emeritus Professors	2
Honorary Senior Lecturers	6
Honorary Research Associates	3
<b>Total</b>	<b>11</b>

### Students

MMed	5
PhD	2
<b>Total</b>	<b>7</b>

## Research Fields and Staff

### **EHRlich, RI**

Occupational lung disease in mining; tuberculosis in health care workers; worker's compensation; social epidemiology

### **JEEbhAY, M**

Occupational lung disease epidemiology and prevention with a specific focus on work-related asthma

### **BURDZIK, A**

Occupational dermatology

## Contact Details

Postal Address: School of Public Health and Family Medicine, Health Sciences Faculty, UCT, Anzio Rd, Observatory 7925.

Telephone: +27 21 406 6818

Fax: +27 86 566 2887

Email (Administration):

**Faranaaz.Bennett@uct.ac.za**

Email (Academic): **Mohamed.Jeebhay@uct.ac.za**

Website: [http://www.publichealth.uct.ac.za/phfm\\_occupational-medicine](http://www.publichealth.uct.ac.za/phfm_occupational-medicine)

# Department of Medicine

## DIVISION OF NEPHROLOGY AND HYPERTENSION

**Head of Division: Professor Brian Rayner**

### Divisional Profile

The division offers a wide range of clinical services including chronic and acute dialysis, renal transplantation, assessment and treatment of a broad range of kidney disease and resistant hypertension, 24 blood pressure monitoring renal biopsies, prevention of chronic kidney, and cardiovascular risk assessment. There is active training programme for senior registrars in Nephrology and the unit is currently training 5 nephrology fellows.

The main research activities of the division are: Vitamin D and outcomes in SLE; Genetics of salt sensitive hypertension; Diabetic nephropathy and treatment of type 2 diabetes; Classification, genetics, prevalence and treatment of HIV associated nephropathy; Tenofovir nephrotoxicity; Physiological treatment of hypertension in indigenous people; Ethical consideration for dialysis rationing; Prevalence and outcome of acute kidney injury; Assessment of adherence to anti-hypertensive treatment through drug monitoring; Mesangiocapillary glomerulonephritis; role of methamphetamine use in hypertension and chronic kidney disease; Epidemiology of membranous nephropathy; Renal denervation for hypertension in transplant patients; Rapidly progressive glomerulonephritis; Diagnosis of Renal TB in HIV; Assessment of AV fistulas using MRI scanning; Transplant outcomes; Young hypertensives.

## Divisional Statistics

### Permanent and Long-Term Contract Staff

Full Professor	1
Associate Professors	1
Senior Lecturers	2
Senior registrar	5
Medical officers	2
Medical registrars	3
<b>Total</b>	<b>14</b>

### Emeritus Staff

Emeritus Professor	1
Emeritus Associate Professor	1
<b>Total</b>	<b>2</b>

### Students

MPhil	5
MMed	4
<b>Total</b>	<b>9</b>

scanning and AV fistulas, genetics of hypertensive nephrosclerosis

#### DR J NAIDOO

Rapidly progressive GN, Tenofovir nephrotoxicity, genetics of hypertensive nephrosclerosis

#### DR BIANCA DAVIDSON

Transplant registry, Peritoneal dialysis registry, and adolescent nephrology care.

#### DR PHETO MANGENA

Adolescent Hypertension

#### DR TOYIN AMEH

Membranous nephropathy

#### DR ERIKA JONES

Assessment of adherence to antihypertensive medication through therapeutic drug monitoring; Tik, hypertension and CKD; Physiological treatment of hypertension in Africa.

## Contact Details

Postal Address: Division of Nephrology and Hypertension, E13 floor, New Groote Schuur Hospital, Observatory, 7925

Telephone: +27 21 404 3318

Fax: +27 21 404 5215

Email: [GSH-E13-RU@westerncape.gov.za](mailto:GSH-E13-RU@westerncape.gov.za)

Website: [www.medicine.uct.ac.za/med/divisions/nephrology](http://www.medicine.uct.ac.za/med/divisions/nephrology)

## Research Fields and Staff

#### DR ZUNAID BARDAY

Kidney transplantation, renal denervation in kidney transplant patients

#### ASSOCIATE PROFESSOR CHARLES SWANEPOEL

Anaemia of CKD

#### ASSOCIATE PROFESSOR IKE OKPECHI

Lupus registry; mesangiocapillary GN, CAPD registry, Rapidly progressive GN

#### DR NICOLA WEARNE

HIV and kidney, tenofovir nephrotoxicity, CAPD registry, HIV and diseases of lifestyle, TB and the kidney

#### PROFESSOR BRIAN RAYNER

Ethical considerations for dialysis rationing, Acute Kidney Injury, Physiological treatment of hypertension, Tik, hypertension and CKD, Therapeutic drug monitoring in hypertension, Salt sensitive hypertension, Diabetic nephropathy, MRI

# Department of Medicine

## DIVISION OF NEUROLOGY

**Head of Division: Associate Professor  
Alan Bryer**

### Divisional Profile

We operate a general clinical neurology service at Groote Schuur Hospital. This provides a comprehensive range of clinical activities, including in-patient, consultative, and emergency services. Additionally, there is a clinical neurophysiology laboratory and a dedicated acute stroke unit, as well as specialised clinics for stroke, myasthenia gravis, motor neurone disease, HIV neurology, neuro-genetic disorders, dystonia, and epilepsy.

### Divisional Statistics

#### Permanent and Long-Term Contract Staff

Associate Professors (Full-time)	2
Senior Lecturers (Full-time)	3
Lecturers (Part-time)	1
<b>Total</b>	<b>6</b>

#### Students

MSc Med	3
MMed	3
BSc Hons	1
<b>Total</b>	<b>7</b>

### Research Fields and Staff

#### **ASSOCIATE PROFESSOR A. BRYER**

Cerebrovascular Disease; Neurogenetics

#### **ASSOCIATE PROFESSOR J. HECKMANN**

Myasthenia gravis and neuromuscular disease; HIV-associated neuromuscular disease, Neurogenetics

#### **DR E. LEE PAN**

Health systems information technology; multi-media teaching

#### **DR L.TUCKER**

Epilepsy

#### **DR K. BATEMAN**

Infectious Disease Neurology, TBM, HIV peripheral nervous disease, Stroke

### Contact Details

Postal Address: Division of Neurology, E8, New Groote Schuur Hospital, Observatory, 7925

Telephone: +27 21 404 3198

Fax: +27 21 406 6251

Email: [alan.bryer@uct.ac.za](mailto:alan.bryer@uct.ac.za)

Website: [www.medicine.uct.ac.za/med/divisions/neurology](http://www.medicine.uct.ac.za/med/divisions/neurology)



# Department of Medicine

## DIVISION OF PULMONOLOGY

**Head of Division: Professor Keertan Dheda**

### Divisional Profile

The Division of Pulmonology primarily serves the health needs of the population of the Western Cape, but also renders specialist services nationally. The Division has thus far trained 33 sub-specialists over the last 40 years, several of whom are high ranking international faculty. Clinical services include endobronchial ultrasound-guided biopsy (EBUS TBNA), bronchial thermoplasty, medical thoracotomy, exercise physiology, sleep medicine, a comprehensive suite of pulmonary function tests, allergology services (Professor Paul Potter).

The Division provides an active post-graduate programme in which several master's and 6 PhD students are enrolled. The Division takes a particular interest in training clinician scientists and several physicians or pulmonologists have recently completed their PhD's within Divisional research units. The Division contributes to the global health or training programmes of several national and international organisations, including the ATS, BTS, ERS, GINA, GOLD, PATS.

The UCT Lung Institute (UCTLI), now headed by Associate Prof Rod Dawson, is closely affiliated of the Division of Pulmonology. The UCTLI is a four storey facility within the Health Sciences faculty with 5 dedicated research Units: Lung Infection and Immunity Unit headed by Prof Keertan Dheda; Centre for Tuberculosis Research Innovation headed by Associate Prof Rod Dawson; Lung Clinical Research Unit headed by Associate Prof Richard van Zyl-Smit; Allergy Diagnostics and Research Unit headed by Prof Paul Potter; and the Knowledge Translation Unit headed by Associate Prof Lara Fairall.

## Divisional Statistics

### Permanent and Long-Term Contract Staff

Professors	1
Associate Professors	1
Senior Lecturers	3
Medical Officers	3
Research and Support Staff	51
Scientists	7
Clinical Technologists in Pulmonology	2
Administrative and clerical staff	8
<b>Total</b>	<b>76</b>

### Emeritus and Honorary Staff

Emeritus Professors	1
Emeritus Associate Professor	1
Honorary Associate Professors	3
Honorary Research Associates	5
Honorary Lecturer	1
<b>Total</b>	<b>11</b>

### Students

PhD	6
MPhil	5
<b>Total</b>	<b>11</b>

## Research Fields and Staff

### Clinical and Research Staff

#### PROFESSOR KEERTAN DHEDA

Rapid diagnosis, including point-of-care tests, of tuberculosis and latent tuberculosis; epidemiology, treatment, and outcomes of drug-resistant tuberculosis; immunology of tuberculosis; HIV-associated tuberculosis; anti-tuberculosis adverse drug reactions; bronchial thermoplasty for asthma

### **EMERITUS PROFESSOR ERIC BATEMAN**

Epidemiology of lung disease; asthma management; chronic obstructive airways disease; tuberculosis immunology and host defences, and management; respiratory disease management and knowledge translation

### **ASSOCIATE PROFESSOR GILLIAN AINSLIE**

High resolution CT scanning in idiopathic pulmonary fibrosis; asthma education

### **EMERITUS ASSOCIATE PROFESSOR PAUL WILLCOX**

Multi-drug-resistant tuberculosis; lung cancer; cystic fibrosis; community-acquired pneumonia

### **DR RICHARD RAINE**

Epidemiology of sleep-disordered breathing; effects of cortisol on dreaming and sleep; novel therapies for treatment of severe sepsis

### **ASSOCIATE PROFESSOR RICHARD VAN ZYL SMIT**

Asthma, Chronic Obstructive Pulmonary Disease (COPD); Indoor air pollution and infections and Smoking cessation,

### **ASSOCIATE PROFESSOR RODNEY DAWSON**

Immunology of Tuberculosis; New Drugs in Tuberculosis

### **ASSOCIATE PROFESSOR LARA FAIRALL**

Guideline development and integrated management in primary health care; pragmatic trials, implementation science, knowledge translation

### **DR MARY BATEMAN**

Smoking cessation; pharmacology of asthma and COPD

## **Contact Details**

Postal Address: Ward E16, New Groote Schuur Hospital (NGSH), PO Box 34560, Anzio Road, Observatory, 7937.  
Telephone: +27 21 404 7654  
Fax: +27 21 404 7651  
Email: [Keertan.Dheda@uct.ac.za](mailto:Keertan.Dheda@uct.ac.za)  
Website: <http://www.medicine.uct.ac.za/med/divisions/pulmonology>

# **Department of Medicine**

## **DIVISION OF RHEUMATOLOGY**

**Head of Division: Professor Asgar Ali Kalla**

### **Divisional Profile**

The Division of Rheumatology has several research interests relating to different aspects of the rheumatic diseases: Osteoporosis in patients with rheumatoid arthritis (RA), systemic lupus erythematosus (SLE), and auto-immune hepatitis; age-related bone loss; Clinical drug trials of the safety and efficacy of the newer biological disease-modifying anti-rheumatic drugs in RA and SLE; coxibs and cardiovascular outcomes; genetics of the Vitamin D receptor and its role in the pathogenesis of auto-immune diseases; chronic tophaceous gout; community aspects of diagnosing and treating rheumatic diseases at Community Health Centres; early rheumatoid arthritis; genetics of bone loss in SLE; and functional problems in ankylosing spondylitis. We have embarked on the ALUGEN project which comprises a registry of SLE patients and their follow-up. This study aims to document clinical features of SLE patients and to monitor ourxome.

### **Divisional Statistics**

#### **Permanent and Long-Term Contract Staff**

Professor	1
Senior Lecturer	2
Lecturers	2
Research Staff	2
Nurse practitioner	1
Administrative and Clerical staff	1
<b>Total</b>	<b>8</b>

#### **Honorary Staff**

Honorary Lecturers	<b>3</b>
--------------------	----------

## Students

Rotating Medical Registrar	2
Medical Officer	1
<b>Total</b>	<b>3</b>

## Contact Details

Postal Address: J47 Old Main Building, Groote Schuur Hospital, Observatory 7925  
Telephone: +27 21 404 5422/2131 or +27 21 406 6514  
Fax: +27 21 448 3253  
Email: [melanie.burger@uct.ac.za](mailto:melanie.burger@uct.ac.za);  
[kallaa@iafrica.com](mailto:kallaa@iafrica.com)  
Website: [www.medicine.uct.ac.za/med/divisions/rheumatology](http://www.medicine.uct.ac.za/med/divisions/rheumatology)

## RESEARCH OUTPUT

### Chapters in books

Gabriels, G.A. 2015. Nutritional supplement commodification and consequence to sport. In D. Chatziefstathiou and A.K. Talentino (eds), *Sporting Boundaries, Sporting Events and Commodification*, pp. 75-100. Oxford, UK: Inter-disciplinary Press. ISBN 9781848883888.

Khumalo, N. 2015. Skin disorders. In D.F. Wittenberg (ed), *Coovadia's Paediatrics & Child Health*, pp. 729-747. 6<sup>th</sup> edition. South Africa: Oxford University Press Southern Africa. ISBN 9780195988437.

### Encyclopaedia entries

Benatar, S.R. 2015. International Encyclopedia of the Social and Behavioral Sciences in International Encyclopedia of the Social and Behavioral Sciences, pp. 633-639. Netherlands: Elsevier Inc. ISBN 9780080970875.

### Articles in peer-reviewed journals

Abay, E., Van Der Westuizen, J.H., Swart, K.J., Gibbard, L., Lawrence, N., Dambuza, N., Wiesner, L., Wilhelm, A. and Pravin, K. 2015. Efficacy and pharmacokinetic evaluation of a novel anti-malarial compound (NPO46) in a mouse model. *Malaria Journal*, 14: 8(7pp).

Abdissa, A., Olsen, M.F., Yilma, D., Tesfaye, M., Girma, T., Christiansen, M., Hagen, C.M., Wiesner, L., Castel, S.A., Aseffa, A., McIlleron, H., Pedersen, C., Friis,

H. and Andersen, A.B. 2015. Lipid-based nutrient supplements do not affect efavirenz but lower plasma nevirapine concentrations in Ethiopian adult HIV patients. *HIV Medicine*, 16: 403-411.

Abraham, S. and Symons, G.J. 2015. Non-pharmacological management of chronic obstructive pulmonary disease. *SAMJ South African Medical Journal*, 105(9): 789.

Abrahams, M.N. 2015. Gout and hyperuricaemia. *SAMJ South African Medical Journal*, 105(12): 1078(3pp).

Abrahams, Z., Dave, J.A., Maartens, G. and Levitt, N. 2015. Changes in blood pressure, glucose levels, insulin secretion and anthropometry after long term exposure to antiretroviral therapy in South African women. *AIDS Research and Therapy*, 12(24): 1-6.

Abrahams-Gessel, S., Denman, C., Montano, C.M., Gaziano, T., Levitt, N.S., Rivera-Andrade, A., Carrasco, D.M., Zulu, J., Khanam, M.A. and Puoane, T. 2015. The training and fieldwork experiences of community health workers conducting population-based, noninvasive screening for CVD in LMIC. *Global Heart*, 10(1): 45-54.

Abrahams-Gessel, S., Denman, C., Montano, C.M., Gaziano, T.A., Levitt, N., Rivera-Andrade, A., Carrasco, D.M., Zulu, J., Khanam, M.A. and Puoane, T. 2015. Training and supervision of community health workers conducting population-based, noninvasive screening for CVD in LMIC: Implications for scaling up. *Global Heart*, 10(1): 39-44.

Adams, M., De Kock, C., Smith, P.J., Land, K.M., Liu, N., Hopper, M., Hsiao, A., Burgoyne, A., Stringer, T., Meyer, M., Wiesner, L., Chibale, K. and Smith, G.S. 2015. Improved antiparasitic activity by incorporation of organosilane entities into half-sandwich ruthenium(II) and rhodium(III) thiosemicarbazone complexes. *Dalton Transactions*, 44: 2456-2468.

Adams, S., Ehrlich, R.I., Baatjies, R., Van Zyl Smit, R., Said-Hartley, Q.M., Dawson, R. and Dheda, K. 2015. Incidence of occupational latent tuberculosis infection in South African healthcare workers. *European Respiratory Journal*, 45: 1364-1373.

Adjuik, M.A., Allan, R., Anvikar, A.R., Ashley, E.A., Ba, M.S., Barennes, H., Barnes, K.I., Bassat, Q., Baudin, E., Bjorkman, A. and Bompert, F. 2015. The effect of dosing strategies on the therapeutic efficacy of artesunate-amodiaquine for uncomplicated malaria: A meta-analysis of individual patient data. *BMC Medicine*, 13(66): 1-19.

Adler, D., Wallace, M., Bennie, T., Abar, B., Sadeghi, R., Bekker, L., Williamson, A.-L. and Meiring, T. 2015. High risk human papillomavirus persistence among HIV-infected young women in South Africa. *International Journal of Infectious Diseases*, 33: 219-221.

- Adler, Y., Charron, P., Imazio, M., Badano, L.P., Baron-Esquivias, G., Bogaerts, J., Brucato, A., Gueret, P., Klingel, K., Lionis, C., Maisch, B., Mayosi, B.M., Pavie, A., Ristic, A.D., Tenas, M.S., Seferovic, P.M., Swedberg, K. and Tomkowski, W. 2015. 2015 ESC Guidelines for the diagnosis and management of pericardial diseases: The task force for the diagnosis and management of pericardial diseases of the European society of cardiology (ESC). *European Heart Journal*, 36: 2921-2964.
- Aleckovic-Halilovic, M., Nel, D. and Woywodt, A. 2015. Granulomatous interstitial nephritis: a chameleon in a globalized world. *Clinical Kidney Journal*, 8(5): 511-515.
- Allie, S., Stanley, A., Bryer, A., Meiring, M. and Combrinck, M.I. 2015. High levels of von Willebrand factor and low levels of its cleaving protease, ADAMTS13, are associated with stroke in young HIV-infected patients. *International Journal of Stroke*, 10(8): 1294-1296.
- Allwood, B. and Calligaro, G.L. 2015. Pathogenesis of chronic obstructive pulmonary disease: an African perspective. *SAMJ South African Medical Journal*, 105(9): 789.
- Allwood, B.W., Goldin, J., Said-Hartley, Q.M., Van Zyl-Smit, R., Calligaro, G.L., Esmail, A., Beyers, N. and Bateman, E.D. 2015. Assessment of previous tuberculosis status using questionnaires, chest X-rays and computed tomography scans. *International Journal of Tuberculosis and Lung Disease*, 19(12): 1435-1440.
- Amaral, A.F.S., Coton, S., Kato, B., Tan, W.C., Studnicka, M., Janson, C., Gislason, T., Mannino, D.M., Bateman, E.D., Buist, S.A. and Burney, P.G.J. 2015. Tuberculosis associates with both airflow obstruction and low lung function: BOLD results. *European Respiratory Journal*, 46(4): 1104-1112.
- Aminde, L., Dzudie, A., Takah, N.F., Ngu, K.B., Sliwa, K. and Kengne, A.P. 2015. Current diagnostic and treatment strategies for Lutembacher syndrome: the pivotal role of echocardiography. *Cardiovascular Medicine*, 5(2): 122-132.
- Aminde, L.N., Takah, N.F., Dzudie, A., Bonko, N.M., Awungafac, G., Teno, D., Mbuagbaw, L. and Sliwa, K. 2015. Occupational post-exposure prophylaxis (PEP) against human immunodeficiency virus (HIV) infection in a health district in Cameroon: Assessment of the knowledge and practices of nurses. *PLoS One*, 10(4): e0124416(12pp).
- Andrews, J.R., Hatherill, M., Mahomed, H., Hanekom, W.A., Campo, M., Hawn, T., Wood, R. and Scriba, T.J. 2015. The dynamics of QuantiFERON-TB gold in-tube conversion and reversion in a cohort of South African adolescents. *American Journal of Respiratory and Critical Care Medicine*, 191(5): 584-591.
- Antel, K.R., Panieri, E. and Novitzky, N. 2015. Role of splenectomy for immune thrombocytopenic purpura (ITP) in the era of new second-line therapies and in the setting of a high prevalence of HIV-associated ITP. *SAMJ South African Medical Journal*, 105(4): 408-412.
- Antel, K.R., Singh, N., Chisholm, B.S. and Heckmann, J.M. 2015. Encephalopathy after persistent vomiting: three cases of non-alcohol-related Wernickes encephalopathy. *SAMJ South African Medical Journal*, 105(6): 442-443.
- Ataklte, F., Erqou, S., Kaptoge, S., Taye, B., Echouffo-Tcheugui, J.B. and Kengne, A.P. 2015. Burden of undiagnosed hypertension in Sub-Saharan Africa: a systematic review and meta-analysis. *Hypertension*, 65: 291-298.
- Atiase, Y., Farni, K., Plange-Rhule, J., Luke, A., Bovet, P., Forrester, T.E., Lambert, E.V., Levitt, N., Kliethermes, S., Cao, G., Durazo-Arvizu, R.A., Cooper, R.S. and Dugas, L. 2015. A comparison of indices of glucose metabolism in five black populations: data from modeling the epidemiologic transition study (METS). *BMC Public Health*, 15: 895(10pp).
- Atkinson, P., Bowra, J., Lambert, M., Lamprecht, H., Noble, V. and Jarman, B. 2015. International Federation for emergency Medicine point of care ultrasound curriculum. *Canadian Journal of Emergency Medicine*, 17(2): 161-170.
- Ayina, C.N.A., Sobngwi, E., Essouma, M., Noubiap, J.J., Boudou, P., Ngoa, L.S.E. and Gautier, F. 2015. Osteoprotegerin in relation to insulin resistance and blood lipids in sub-Saharan African women with and without abdominal obesity. *Diabetology & Metabolic Syndrome*, 7: 47(4pp).
- Bachmann, M.O., Timmerman, V. and Fairall, L. 2015. Effect of antiretroviral treatment on the risk of tuberculosis during South Africa's programme expansion. *AIDS*, 29(17): 2261-2268.
- Barnes, K.I., Abdulla, S., Adam, I. and d'Alessandro, U. 2015. Clinical determinants of early parasitological response to ACTs in African patients with uncomplicated falciparum malaria: a literature review and meta-analysis of individual patient data. *BMC Medicine*, 13: 212(16pp).
- Barnes, K.I., Workman, L., Anstey, N., Price, R.N. and Davis, T.M.E. 2015. The effect of dose on the antimalarial efficacy of artemetherlumefantrine: a systematic review and pooled analysis of individual patient data. *Lancet Infectious Diseases*, 15: 692-702.
- Barnes, K.I., Workman, L., Ashley, E.A., Aweeka, F. and Bassat, Q. 2015. Artemether-lumefantrine

- treatment of uncomplicated *Plasmodium falciparum* malaria: a systematic review and meta-analysis of day 7 lumefantrine concentrations and therapeutic response using individual patient data. *BMC Medicine*, 13: 227(19pp).
- Barth, D., Mayosi, B.M., Jabar, A. and Engel, M.E. 2015. Prevalence of group a streptococcal disease in North and Sub-Saharan Africa: a systematic review protocol. *BMJ Open*, 5: e008646(5pp).
- Barth, D., Zuhlke, L., Joachim, A., Hoegger, T., Mayosi, B.M. and Engel, M.E. 2015. Effect of distance to health facility on the maintenance of INR therapeutic ranges in rheumatic heart disease patients from Cape Town: no evidence for an association. *BMC Health Services Research*, 15: 219(7pp).
- Basera, W., Botha, M., Gray, C.L., Lunjani, N., Watkins, A., Venter, c., Allen, K.J., Hlela, C., Zar, H.J. and Levin, M. 2015. The South African food sensitisation and food allergy population-based study of IgE-mediated food allergy: validity, safety, and acceptability. *Annals of Allergy Asthma & Immunology*, 115: 113-119.
- Bateman, E.D., Bousquet, P.J., Aubier, M., Bredenbrocker, D. and O'Byrne, P. 2015. Roflumilast for asthma: efficacy findings in non-placebo-controlled comparator and dosing studies. *Pulmonary Pharmacology & Therapeutics*, 35: S11-S19.
- Bateman, E.D., Buhl, R., O'Byrne, P.M., Humbert, M., Reddel, H.K., Sears, M., Jenkins, C., Harrison, T., Quirce, S., Peterson, S. and Eriksson, G. 2015. Development and validation of a novel risk score for asthma exacerbations: the risk score for exacerbations. *Journal of Allergy and Clinical Immunology*, 135(6): 1457-1464.
- Bateman, E.D., Chapman, K.R., Singh, D., D'Urzo, A., Molins, E., Leselbaum, A. and Gil, E.G. 2015. Aclidinium bromide and formoterol fumarate as a fixed-dose combination in COPD: pooled analysis of symptoms and exacerbations from two six-month, multicentre, randomised studies (ACLIFORM and AUGMENT). *Respiratory Research*, 16: 92(13pp).
- Bateman, E.D., Esser, D., Chirila, C., Fernandez, M., Fowler, A., Moroni-Zentgraf, P. and Fitzgerald, J.M. 2015. Magnitude of effect of asthma treatments on asthma quality of life questionnaire and asthma control questionnaire scores: systematic review and network meta-analysis. *Journal of Allergy and Clinical Immunology*, 136: 914-922.
- Bateman, E.D., Jithoo, A., Adams, D., Barnes, E., Freeman, J., Hayes, A., Hlengwa, S., Johannisen, C., Koopman, M., Louw, I., Ludick, I. and Storbeck, J. 2015. Gaps in using bronchodilators, inhaled corticosteroids and influenza vaccine among 23 high- and low-income sites. *International Journal of Tuberculosis and Lung Disease*, 19(1): 21-30.
- Bateman, E.D., Reddel, H.K., Van Zyl Smit, R. and Agusti, A. 2015. The asthma-COPD overlap syndrome: towards a revised taxonomy of chronic airways diseases? *Lancet Respiratory Medicine*, 3: 719-728.
- Bateman, K.J., Rogers, C. and Meyer, E. 2015. An approach to acute vertigo. *SAMJ South African Medical Journal*, 105(8): 694-695.
- Beale, M.A., Sabiit, W., Robertson, E.J., Fuentes-Cabrejo, K.M., O'Hanlon, S.J., Jarvas, J.N., Loyse, A., Meintjes, G., Harrison, T., May, R.C., Fisher, M.C. and Bicanic, T. 2015. Genotypic diversity is associated with clinical outcome and phenotype in cryptococcal meningitis across Southern Africa. *PLoS Neglected Tropical Diseases*, 9(6): e0003847(18pp).
- Bedeker, W., Lachman, A.S., Borkum, M., Hellenberg, D.A. and Cupido, C. 2015. Impact of transthoracic echocardiography at district hospital level. *SAMJ South African Medical Journal*, 105(10): 817-822.
- Bekker, L., Gill, K. and Wallace, M. 2015. Pre-exposure prophylaxis for South African adolescents: what evidence? *SAMJ South African Medical Journal*, 105(11): 907-911.
- Bekker, L., Johnson, L.F., Cowan, F.M., Overs, C., Besada, D., Hillier, S. and Cates, W. 2015. Combination HIV prevention for female sex workers: what is the evidence? *Lancet*, 385: 72-87.
- Bekker, L., Johnson, L.F., Wallace, M. and Hosek, S. 2015. Building our youth for the future. *Journal of the International AIDS Society*, 18: 20027(7pp).
- Belard, S., Heuvelings, C., Janssen, S. and Grobusch, M. 2015. Bedaquiline for the treatment of drug-resistant tuberculosis. *Expert Review of Anti-infective Therapy*, 13(5): 535-553.
- Benatar, S.R. 2015. Explaining and responding to the Ebola epidemic. *Philosophy, Ethics, and Humanities in Medicine*, 10(5): 1-3.
- Benatar, S.R. 2015. Reflections on ethical challenges associated with the Ebola epidemic. *SAMJ South African Medical Journal*, 105(12): 1012-1013.
- Benatar, S.R. 2015. The humanistic side of medical education. *SAMJ South African Medical Journal*, 105(1): 3-3.
- Bernstein, D.I., Bateman, E.D., Woodcock, A., Toler, W., Forth, R., Jacques, L., Nunn, C. and O'Byrne, P.M. 2015. Fluticasone furoate (FF)/vilanterol (100/25 mcg or 200/25 mcg) or FF (100 mcg) in persistent asthma. *Journal of Asthma*, 52(10): 1073-1083.
- Beyrer, C., Crago, A., Bekker, L., Butler, J., Shannon, K., Kerrigan, D., Decker, M.R., Baral, S., Poteat, T. and Wirtz, A.L. 2015. An action agenda for HIV and sex workers. *Lancet*, 385: 287-301.

- Bicanic, T., Bottomley, C., Loyse, A., Brouwer, A., Muzoora, C., Taseera, K., Jackson, A., Phulusa, J., Hosseinipour, M., van der Horst, C., Limmathurotsakul, D., White, N., Wilson, D., Wood, R., Meintjes, G., Harrison, T.S. and Jarvis, J.N. 2015. Toxicity of amphotericin B deoxycholate-based induction therapy in patients with HIV-associated cryptococcal meningitis. *Antimicrobial Agents and Chemotherapy*, 59(12): 7224-7231.
- Bigna, J.J., Noubiap, J.J., Agbor, A.A., Plottel, C.S., Billong, S.C., Ayong, A.P. and Koulla-Shiro, S. 2015. Early mortality during initial treatment of tuberculosis in patients co-infected with HIV at the Yaounde Central Hospital, Cameroon: an 8-year retrospective cohort study (2006-2013). *PLoS One*, 10(7): e0132394(13pp).
- Blockman, M. 2015. Adverse drug events – why we care. *Current Allergy & Clinical Immunology*, 28(4): 248-250.
- Blom, D. 2015. South African Dyslipidaemia Guideline Consensus Statement: a joint statement from the South African Heart Association (SA Heart) and the Lipid and Atherosclerosis Society of Southern Africa (LASSA). *South African Family Practice (Geneeskunde: The Medicine Journal)*, 57(2): 22-31.
- Blom, D., Djedjos, C.S., Monsalvo, M.L., Bridges, I., Wasserman, S.M., Scott, R. and Roth, E. 2015. Effects of evolocumab on vitamin E and steroid hormone levels: results from the 52-week, phase 3, double-blind, randomized, placebo-controlled Descartes study. *Circulation Research*, 117: 731-741.
- Bloomfield, G., Alenezi, F., Barasa, A.F., Lumsden, R., Mayosi, B.M. and Velazquez, E.J. 2015. Human immunodeficiency virus and heart Failure in low- and middle-income countries. *JACC: Heart Failure*, 3(8): 579-590.
- Boateng, M., Corrigall, A.V., Sturrock, E.D. and Meissner, P.N. 2015. Characterisation of the flavin adenine dinucleotide binding region of Myxococcus xanthus protoporphyrinogen. *Biochemistry and Biophysics Reports*, 4: 306-311.
- Boeree, M.J., Diacon, A., Dawson, R., Narunsky, K., Du Bois, J., Venter, A., Phillips, P.P.J., Gillespie, S., McHugh, T., Hoelscher, M., Heinrich, N., Rehal, S. and PanACEA Consortium, P. 2015. A dose-ranging trial to optimize the dose of rifampin in the treatment of tuberculosis. *American Journal of Respiratory and Critical Care Medicine*, 191(9): 1058-1065.
- Boggild, A.K., Esposito, D.H., Kozarsky, P.E., Ansdell, V., Beeching, N.J., Campion, D., Castelli, F., Caumes, E., Chappuis, F., Cramer, J.P., Gkrania-Klotsas, E., Grobusch, M.P., Hagmann, S., Hynes, N.A., Lim, P.L., Lopez-Velez, R., Malvy, D.J.M., Mendelson, M., Parola, P., Sotir, M., Wu, H.M. and Hamer, D.H. 2015. Differential diagnosis of illness in travelers arriving from Sierra Leone, Liberia, or Guinea: a cross-sectional study from the geosentinel surveillance network. *Annals of Internal Medicine*, 162: 757-764.
- Bohm, M., Schumacher, H., Leong, D., Mancina, G., Unger, T., Schmieder, R., Custodis, F.F., Diener, H., Laufs, U., Lonn, E.M. and Sliwa, K. 2015. Systolic blood pressure variation and mean heart rate is associated with cognitive dysfunction in patients with high cardiovascular risk. *Hypertension*, 65: 651-661.
- Bohm, M., Schumacher, H., Linz, D., Reil, J.-C., Lonn, E., Teo, K., Ukena, C., Sliwa, K., Schmieder, R.E., Sleight, P. and Yusuf, S. 2015. Low resting heart rates are associated with new-onset atrial fibrillation in patients with vascular disease: results of the ONTARGET/TRANSCEND studies. *Journal of Internal Medicine*, 278: 303-312.
- Bohm, M., Schumacher, H., Schmieder, R.E., Mann, J.F.E., Teo, K., Lonn, E., Sleight, P., Mancina, G., Linz, D., Mahfoud, F., Ukena, C., Sliwa, K., Bakris, G. and Yusuf, S. 2015. Resting heart rate is associated with renal disease outcomes in patients with vascular disease: results of the ONTARGET and TRANSCEND studies. *Journal of Internal Medicine*, 278: 38-49.
- Botha, J. and Thomson, S.R. 2015. The Chicago classification simplified. *The South African Gastroenterology Review*, 2: 19-22.
- Botha-Scheepers, S. and Sarembock, B.D. 2015. Infections in the management of rheumatic diseases: an update. *SAMJ South African Medical Journal*, 105(12): 1076(3pp).
- Bowness, R., Boeree, M.J., Aarnoutse, R., Dawson, R., Diacon, A., Mangu, C.D., Heinrich, N., Ntinginya, E.N., Kohlenberg, A., Mtafya, B., Phillips, P.P.J., Rachow, A., Plemper van Balen, G. and Gillespie, S.H. 2015. The relationship between mycobacterium tuberculosis MGIT time to positivity and cfu in sputum samples demonstrates changing bacterial phenotypes potentially reflecting the impact of chemotherapy on critical sub-populations. *Journal of Antimicrobial Chemotherapy*, 70: 448-455.
- Boyd, M.A., Moore, C.L., Molina, J.-M., Wood, R., Madero, J., Wolff, M., Ruxrungtham, K., Losso, M., Renjifo, B., Teppler, H. and Kelleher, A. 2015. Baseline HIV-1 resistance, virological outcomes, and emergent resistance in the SECOND-LINE trial: an exploratory analysis. *Lancet HIV*, 2: e42-e51.
- Boyles, T.H. 2015. Ceftolozane-tazobactam versus levofloxacin in urinary tract infection. *Lancet*, 386(10000): 1241
- Boyles, T.H. 2015. Ebola: personal view from the field Sierra Leone. *SAMJ South African Medical Journal*, 105(12): 1008-1009.

- Boyles, T.H. 2015. Priorities in Ebola research: a view from the field. *Lancet*, 385(9962): 23.
- Boyles, T.H. and Wasserman, S. 2015. Diagnosis of bacterial infection. *SAMJ South African Medical Journal*, 105(5): 419-421.
- Boyles, T.H., Davis, K., Crede, T., Malan, J., Mendelson, M. and Lesosky, M. 2015. Blood cultures taken from patients attending emergency departments in South Africa are an important antibiotic stewardship tool, which directly influences patient management. *BMC Infectious Diseases*, 15: 410(7pp).
- Boyles, T.H., Hughes, J., Meintjes, G., Burton, R., Cox, V. and Mendelson, M. 2015. False-positive Xpert MTB/RIF assays and previous treatment. *International Journal of Tuberculosis and Lung Disease*, 19(4): 495-496.
- Brink, A.J., Cotton, M., Feldman, C., Finlayson, H., Friedman, R., Green, R., Henderson, W., Hockman, M.H., Maartens, G., Madhi, S.A., Reubenson, G., Silverbauer, E.J. and Zietsman, I.L. 2015. Updated recommendations for the management of upper respiratory tract infections in South Africa. *SAMJ South African Medical Journal*, 105(5): 345-352.
- Brouwer, E.D., Watkins, D.A., Olson, Z.D., Goett, J., Nugent, R.A. and Levin, C. 2015. Provider costs for prevention and treatment of cardiovascular and related conditions in low- and middle-income countries: a systematic review. *BMC Public Health*, 15: 1183(17pp).
- Brulhart-Meynet, M., Braunersreuther, V., Brinck, J., Montecucco, F., Prost, J., Thomas, A., Galan, K., Pelli, G., Pedretti, S., Vuilleumier, N., Mach, F., Lecour, S., James, R.W. and Frias, M.A. 2015. Improving reconstituted HDL composition for efficient post-ischemic reduction of ischemia reperfusion injury. *PLoS One*, 10(3): e0119664(16pp).
- Buhl, R., Maltais, F., Abrahams, R., Bjermer, L., Derom, E., Ferguson, G.T., Flezar, M., Hebert, J., McGarvey, L., Pizzichini, E., Reid, J., Veale, A., Gronke, L., Hamilton, A., Korducki, L., Tetzlaff, K., Waitere-Wijker, S., Watz, H. and Bateman, E.D. 2015. Tiotropium and olodaterol fixed-dose combination versus mono-components in COPD (GOLD 2-4). *European Respiratory Journal*, 45: 969-979.
- Burton, R. 2015. Ebola: experiences from the field Liberia. *SAMJ South African Medical Journal*, 105(12): 1006-1008.
- Burton, R., Giddy, J. and Stinson, K. 2015. Prevention of mother-to-child transmission in South Africa: an ever-changing landscape. *Obstetrics Medicine*, 8(1): 5-12.
- Cabrera, D.G., Douelle, F., Le Manach, C., Han, Z., Paquet, T., Taylor, D., Njoroge, M., Lawrence, N., Wiesner, L., Waterson, D., Witty, M.J., Wittlin, S., Street, L.J. and Chibale, K. 2015. Structure-activity relationship studies of orally active antimalarial 2,4-diamino-thienopyrimidines. *Journal of Medicinal Chemistry*, 58: 7572-7579.
- Caleyachetty, R., Echouffo-Tcheugui, J.B., Tait, C.A., Schilsky, S., Forrester, T.E. and Kengne, A.P. 2015. Prevalence of behavioural risk factors for cardiovascular disease in adolescents in low-income and middle-income countries: an individual participant data meta-analysis. *Lancet Diabetes & Endocrinology*, 3: 535-544.
- Calitz, C., Gous, C., Viljoen, J., Steenekamp, J., Wiesner, L., Abay, E. and Hamman, J. 2015. Herb-drug pharmacokinetic interactions: transport and metabolism of indinavir in the presence of selected herbal products. *Molecules*, 20: 22113-22127.
- Calligaro, G.L. and Gray, D. 2015. Lung function abnormalities in HIV-infected adults and children. *Respirology*, 20: 24-32.
- Calligaro, G.L., Theron, G., Khalfey, H., Peter, J., Meldau, R., Matinyanya, B., Davids, M., Smith, L., Pooran, A., Lesosky, M., Esmail, A., Miller, M., Piercy, J.L., Michell, W.L., Dawson, R., Raine, R.I., Joubert, I. and Dheda, K. 2015. Burden of tuberculosis in intensive care units in Cape Town, South Africa, and assessment of the accuracy and effect on patient outcomes of the Xpert MTB/RIF test on tracheal aspirate samples for diagnosis of pulmonary tuberculosis: a prospective burden of disease study with a nested randomised controlled trial. *Lancet Respiratory Medicine*, 3: 621-630.
- Camara, A., Balde, N.M., Sobngwi-Tambekou, J., Kengne, A.P., Diallo, M.M., Tchatchoua, A.P.K., Kake, A., Sylvie, N., Balkau, B., Bonnet, F. and Sobngwi, E. 2015. Poor glycaemic control in type 2 diabetes in the South of the Sahara: the issue of limited access to an HbA1c test. *Diabetes Research and Clinical Practice*, 108: 187-192.
- Campbell, M.M., Susser, E., de Vries, J., Baldinger, A., Sibeko, G., Mndini, M.M., Mqulwana, S.G., Ntola, O.A., Ramesar, R.S. and Stein, D.J. 2015. Exploring researchers' experiences of working with a researcher-driven, population-specific community advisory board in a South African schizophrenia genomics study. *BMC Medical Ethics*, 16: 45(9pp).
- Cannon, C.P., Cariou, B., Blom, D., McKenney, J.M., Lorenzato, C., Pordy, R., Chaudhari, U. and Colhoun, H.M. 2015. Efficacy and safety of alirocumab in high cardiovascular risk patients with inadequately controlled hypercholesterolaemia on maximally tolerated doses of statins: the ODYSSEY COMBO II randomized controlled trial. *European Heart Journal*, 36: 1186-1194.

- Castro, M., Zangrilli, J., Wechsler, M., Bateman, E.D., Brusselle, G.G., Bardin, P., Murphy, K., Maspero, J.F., O'Brien, C. and Korn, S. 2015. Reslizumab for inadequately controlled asthma with elevated blood eosinophil counts: Results from two multicentre, parallel, double-blind, randomised, placebo-controlled, phase 3 trials. *Lancet Respiratory Medicine*, 3: 355-366.
- Celum, C., Delany-Moretlwe, S., McConnell, M., Van Rooyen, H., Bekker, L., Kurth, A., Bukusi, E.A., Desmond, C., Morton, J. and Baeten, J. 2015. Rethinking HIV prevention to prepare for oral PrEP implementation for young African women. *Journal of the International AIDS Society*, 18(3): 20227(10pp).
- Chervinsky, P., Meltzer, E.O., Busse, W., Ohta, K., Bardin, P., Bredenbroker, D. and Bateman, E.D. 2015. Roflumilast for asthma: safety findings from a pooled analysis of ten clinical studies. *Pulmonary Pharmacology & Therapeutics*, 35: S28-S34.
- Chigutsa, E., Pasipanodya, J.G., Visser, M.M.E., van Helden, P., Smith, P.J., Sirgel, F.A., Gumbo, T. and McIlleron, H. 2015. Impact of nonlinear interactions of pharmacokinetics and MICs on sputum bacillary kill rates as a marker of sterilizing effect in tuberculosis. *Antimicrobial Agents and Chemotherapy*, 59(1): 38-45.
- Chin, A. 2015. Management of rheumatic atrial fibrillation. *SA Heart*, 12: 152-155.
- Chin, A. and Phiri, T. 2015. An anteroseptal accessory pathway in a patient with Dextrocardia and Situs Inversus. *Journal of Cardiovascular Electrophysiology*, 26(6): 692-693.
- Chin, A., Healey, J.S., Ribas, C. and Nair, G.M. 2015. Delayed AICD therapy and cardiac arrest resulting from undersensing of ventricular fibrillation in a subject with hypertrophic cardiomyopathy-a case report. *Indian Pacing and Electrophysiology Journal*, 15: 121-124.
- Chirouze, C., Alla, F., Fowler Jr, V.G., Sexton, D.J., Corey, G.R., Chu, V.H., Wang, A., Erpelding, M.L., Durante-Mangoni, E.M., Fernandez-Hidalgo, N., Giannitsioti, E., Hannan, M.M., Lejko-Zupanc, T., Miro, J., Muoz, P., Murdoch, D.R., Tattevin, P., Tribouilloy, C., Hoen, B., Commerford, P.J., Commerford, A., Deetlefs, E., Hansa, C., Ntsekhe, M. and ICE Prospective Investigators, N./A. 2015. Impact of early valve surgery on outcome of staphylococcus aureus prosthetic valve infective endocarditis: analysis in the international collaboration of endocarditisprospective cohort study. *Clinical Infectious Diseases*, 60(5): 741-749.
- Chopra, R., De Kock, C., Smith, P., Chibale, K. and Singh, K. 2015. Ferrocene-pyrimidine conjugates: synthesis, electrochemistry, physicochemical properties and antiplasmodial activities. *European Journal of Medicinal Chemistry*, 100: 1-9.
- Chughlay, M.F., Blockman, M. and Cohen, K. 2015. A clinical approach to drug-induced liver injury. *Current Allergy & Clinical Immunology*, 28(4): 252-256.
- Chughlay, M.F., Kramer, N., Werfalli, M., Spearman, W., Engel, M.E. and Cohen, K. 2015. N-acetylcysteine for non-paracetamol drug-induced liver injury: A systematic review protocol. *Systematic Reviews*, 4(84): 1-6.
- Ciaranello, A.L., Myers, L., Kelly, K., Christensen, S., Daskilewicz, K., Doherty, K., Bekker, L., Hou, T., Wood, R., Francke, J.A., Wools-Kaloustian, K., Freedberg, K.A. and Walensky, R.P. 2015. Point-of-Care CD4 testing to inform selection of antiretroviral medications in South African antenatal clinics: a cost-effectiveness analysis. *PLoS One*, 10(3): e0117751(19pp).
- Cohn, J., Bekker, L., Bygrave, H. and Calmy, A. 2015. Hit me with your best shot: dolutegravir – a space in the next WHO guidelines? *AIDS*, 29: 2067-2070.
- Combrinck, J.M., Fong, K.Y., Gibhard, L., Smith, P.J., Wright, D.W. and Egan, T.J. 2015. Optimization of a multi-well colorimetric assay to determine haem species in *Plasmodium falciparum* in the presence of anti-malarials. *Malaria Journal*, 14(253): 1-14.
- Commerford, P.J., Commerford, A., Deetlefs, E., Hansa, C. and Ntsekhe, M. 2015. Candida infective endocarditis: an observational cohort study with a focus on therapy. *Antimicrobial Agents and Chemotherapy*, 59: 2365-2373.
- Cornell, M., Johnson, L.F., Schomaker, M., Tanser, F., Maskew, M., Wood, R., Prozesky, H., Giddy, J., Stinson, K., Egger, M., Boulle, A.M. and Myer, L. 2015. Age in antiretroviral therapy programmes in South Africa: a retrospective, multicentre, observational cohort study. *Lancet HIV*, 2: e368-e375.
- Coussens, A., Naude, C.E., Goliath, R.T., Chaplin, G., Wilkinson, R.J. and Jablonski, N. 2015. High-dose vitamin D<sub>3</sub> reduces deficiency caused by low UVB exposure and limits HIV-1 replication in urban Southern Africans. *Proceedings of the National Academy of Sciences of the United States of America*, 112(26): 8052-8057.
- Coussens, A., Wilkinson, R.J. and Martineau, A. 2015. Phenylbutyrate is bacteriostatic against *Mycobacterium tuberculosis* and regulates the macrophage response to infection, synergistically with 25-Hydroxy-Vitamin D. *PLOS Pathogens*, 11(7): e1005007(23pp).
- Cox, V., De Azevedo, V., Stinson, K., Wilkinson, L., Rangaka, M. and Boyles, T.H. 2015. Diagnostic accuracy of tuberculin skin test self-reading by HIV patients in a low-resource setting. *International Journal of Tuberculosis and Lung Disease*, 19(11): 1300-1304.



- Dambuza, N., Smith, P., Evans, A.C., Norman, J.J., Taylor, D., Andayi, A.W., Egan, T.J., Chibale, K. and Wiesner, L. 2015. Antiplasmodial activity, in vivo pharmacokinetics and anti-malarial efficacy evaluation of hydroxypyridinone hybrids in a mouse model. *Malaria Journal*, 14: 505(8pp).
- Danieli, P., Malpasso, G., Ciuffreda, M.C., Cervio, E., Calvillo, L., Copes, F., Pisano, F., Mura, M., Kleijn, K., De Boer, R.A., Viarengo, G., Rosti, V., Spinillo, A., Roccio, M. and Gneccchi, M. 2015. Conditioned medium from human amniotic mesenchymal stromal cells limits infarct size and enhances angiogenesis. *Stem Cells Translational Medicine*, 4: 1-11.
- Daniels, J., Khogali, M., Mohr, E., Cox, V., Moyo, S., Edginton, M., Gudmund Hinderaker, S., Meintjes, G., Hughes, J., De Azevedo, V., Van Cutsem, G. and Cox, H. 2015. Time to ART initiation among patients treated for rifampicin-resistant tuberculosis in Khayelitsha, South Africa: impact on mortality and treatment success. *PLoS One*, 10(11): e0142873(15pp).
- Dave, J.A., Cohen, K., Micklesfield, L.K., Maartens, G. and Levitt, N. 2015. Antiretroviral therapy, especially efavirenz, is associated with low bone mineral density in HIV-infected South Africans. *PLoS One*, 10(12): e0144286(9pp).
- Dave, J.A., Klisiewicz, A., Bayat, Z., Mohamed, N., Stevens, Z., Mollentze, W. and Kinvig, T. 2015. SEMDSA/ACE-SA guideline for the management of hypothyroidism in adults. *Journal of Endocrinology, Metabolism and Diabetes of South Africa (JEMDSA)*, 20(2): 18-26.
- Davids, M., Dheda, K., Pai, N.P., Cogill, D., Pai, M. and Engel, N. 2015. A survey on use of rapid tests and Tuberculosis diagnostic practices by primary health care providers in South Africa: implications for the development of new point-of-care tests. *PLoS One*, 10(10): e0141453(14pp).
- Davies, M., Ford, N., Rabie, H., Fatti, G., Stinson, K., Giddy, J., Tanser, F., Technau, K.-G., Sawry, S., Eley, B.S., Wood, R., Mofenson, L., Keiser, O. and Boule, A.M. 2015. Reducing CD4 monitoring in children on antiretroviral therapy with virologic suppression. *Pediatric Infectious Disease Journal*, 34(12): 1361-1364.
- Dawson, R., Diacon, A., Everitt, D., Van Niekerk, C., Donald, P.R., Burger, D., Schall, R., Spigelman, M., Conradie, A., Eisenach, K., Venter, A., Ive, P., Page-Shipp, L., Variava, E., Reither, K., Ntinginya, E.N., Pym, A. and von Groote-Bidingmaier, F. 2015. Efficiency and safety of the combination of moxifloxacin, pretomanid (PA-824), and pyrazinamide during the first 8 weeks of antituberculosis treatment: a phase 2b, open-label, partly randomised trial in patients with drug-susceptible or drug-resistant pulmonary tuberculosis. *Lancet*, 385: 1738-1747.
- Dawson, R., Narunsky, K., Carman, D., Gupte, N., Whitelaw, A., Efron, A., Barnes, G.L., Hoffman, J., Chaisson, R.E., McIlleron, H. and Dorman, S.E. 2015. Two-stage activity-safety study of daily rifapentine during intensive phase treatment of pulmonary tuberculosis. *International Journal of Tuberculosis and Lung Disease*, 19(7): 780-786.
- de Jager, C.A. 2015. Knowledge, attitudes and beliefs about dementia in an urban Xhosa-speaking community in South Africa. *Advanced in Alzheimer's Disease*, 4: 21-36.
- de Jager, C.A., Joska, J., Hoffman, M., Borochoowitz, K.E. and Combrinck, M.I. 2015. Dementia in rural South Africa: a pressing need for epidemiological studies. *SAMJ South African Medical Journal*, 105(3): 189-190.
- de Melo Soares, C., Feng, T., van der Westhuyzen, R., Gessner, R.K., Street, L.J., Morgans, G.L., Warner, D., Moosa, A., Naran, K., Lawrence, N., Boshoff, H.I., Barry 3<sup>rd</sup>, C.E., Harris, C.J., Gordon, R. and Chibale, K. 2015. Aminopyrazolo [1,5-a]pyrimidines as potential inhibitors of Mycobacterium tuberculosis: structure activity relationships and ADME characterization. *Bioorganic & Medicinal Chemistry*, 23: 7240-7250.
- de Visser, V., Sotgiu, G., Lange, C., Aabye, M.G., Bakker, M., Bartalesi, F., Brat, K., Chee, C.B.E., Dheda, K., Dominguez, J., Eyuboglu, F., Ghanen, M., Goletti, D., Dilektasli, A.G., Guglielmetti, L., Koh, W.-J., Latorre, I., Losi, M., Polanova, M., Ravn, P., Ringshausen, F.C., Rumetshofer, R., de Souza-Galvao, M.L., Thijsen, S., Bothamley, G.H. and Bossink, A. 2015. False-negative interferon- release assay results in active tuberculosis: a TBNET study. *European Respiratory Journal*, 45: 279-283.
- de Vries, J., Abayomi, A., Littler, K., Madden, E., McCurdy, S.A., Oukem-Boyer, O.O.M., Seeley, J., Staunton, C., Tangwa, G., Tindana, P. and Troyer, J. 2015. Addressing ethical issues in H3Africa research: the views of research ethics committee members. *The HUGO Journal*, 9(1): 1-4.
- de Vries, J., Tindana, P., Littler, K., Ramsay, M., Rotim, C., Abayomi, A., Mulder, N.J. and Mayosi, B.M. 2015. The H3Africa policy framework: Negotiating fairness in genomics. *Trends in Genetics*, 31(3): 117-119.
- Decloedt, E.H., Rosenkranz, B., Maartens, G. and Joska, J. 2015. Central nervous system penetration of antiretroviral drugs: pharmacokinetic, pharmacodynamic and pharmacogenomic considerations. *Clinical Pharmacokinetics*, 54: 581-598.
- Decloedt, E.H., Van der Walt, J.-S., McIlleron, H., Wiesner, J.L. and Maartens, G. 2015. The pharmacokinetics of lopinavir/ritonavir when given with isoniazid in South African HIV-infected

individuals. *International Journal of Tuberculosis and Lung Disease*, 19(10): 1194-1196.

Denoeud-Ndam, L., Dicko, A., Baudin, E., Guindo, O., Grandesso, F., Sagara, I., Lasry, E., Palma, P.B., Parra, A.M.L., Stepniewka, K., Djimde, A.A., Barnes, K.I., Doumbo, O.K. and Etard, J.-F. 2015. A multi-center, open-label trial to compare the efficacy and pharmacokinetics of Artemether-Lumefantrine in children with severe acute malnutrition versus children without severe acute malnutrition: study protocol for the MAL-NUT study. *BMC Infectious Diseases*, 15: 228(11pp).

Denti, P., Jeremiah, K., Chigutsa, E., Faurholt-Jepsen, D., Praygod, G., Range, N., Castel, S.A., Wiesner, J.L., Hagen, C.M., Christiansen, M., Chagalucha, J., McIlleron, H., Friis, H. and Andersen, A.B. 2015. Pharmacokinetics of isoniazid, pyrazinamide, and ethambutol in newly diagnosed pulmonary TB patients in Tanzania. *PLoS One*, 10(10): e0141002(19pp).

Desmond, A.C., Moodley, D., Conolly, C.A., Castel, S.A. and Coovadia, H. 2015. Evaluation of adherence measures of antiretroviral prophylaxis in HIV exposed infants in the first 6 weeks of life. *BMC Pediatrics*, 15: 23(8pp).

Dheda, K., Koegelenberg, C., Esmail, A., Irusen, E., Wechsler, M., Niven, R.M., Chung, K.F. and Bateman, E.D. 2015. Indications for the use of bronchial thermoplasty in severe asthma. *SAMJ South African Medical Journal*, 105(10): 808-809.

Dheda, K., Koegelenberg, C., Esmail, A., Irusen, E.M., Wechsler, M., Niven, R., Bateman, E.D. and Chung, K.F. 2015. Recommendations for the use of bronchial thermoplasty in the management of severe asthma. *SAMJ South African Medical Journal*, 105(9): 726-732.

Diacon, A., Dawson, R., Von Groote-Bidlingmaier, F., Symons, G.J., Venter, A., Donald, P.R., Van Niekerk, C., Everitt, D., Hutchings, J., Burger, D., Schall, R. and Mendel, C.M. 2015. Bactericidal activity of Pyrazinamide and Clofazimine alone and in combinations with Pretomanid and Bedaquiline. *American Journal of Respiratory and Critical Care Medicine*, 191(8): 943-953.

Dokainish, H., Koon, T., Zhu, J., Roy, A., Al-Habib, K., Elsayed, A., Palileo, L., Jaramillo, P.L., Karaye, K., Yusoff, K., Orlandini, A., Sliwa, K., Mondo, C., Lanas, F., Dorairaj, P., Huffman, M., Badr, A., Elmaghawry, M., Damasceno, A., Belley-Cote, E., Harkness, K., Grinvalds, A., McKelvie, R. and Yusuf, S. 2015. Heart failure in low- and middle-income countries: background, rationale, and design of the INTERnational Congestive Heart Failure Study (INTER-CHF). *American Heart Journal*, 170: 627-634.

Dooley, K.E., Denti, P., Martinson, N., Cohn, S., Mashabela, F., Hoffmann, J., Haas, D.W., Hull, J., Msandiwa, R., Castel, S.A., Wiesner, L., Chaisson, R. and McIlleron, H. 2015. Pharmacokinetics of efavirenz and treatment of HIV-1 among pregnant women with and without tuberculosis coinfection. *Journal of Infectious Diseases*, 211: 197-205.

du Plessis, L.H., Govender, K., Denti, P. and Wiesner, J.L. 2015. In vivo efficacy and bioavailability of lumefantrine: evaluating the application of Pheroid technology. *European Journal of Pharmaceutics and Biopharmaceutics*, 97: 68-77.

Dunbar, G., Hellenberg, D.A. and Levitt, N. 2015. Diabetes mellitus and non-traumatic lower extremity amputations in four public sector hospitals in Cape Town, South Africa, during 2009 and 2010. *SAMJ South African Medical Journal*, 105(12): 1053-1056.

Durao, S., Ajumobi, O., Kredo, T., Naude, C.E., Levitt, N., Steyn, K., Bradshaw, D. and Young, T. 2015. Evidence insufficient to confirm the value of population screening for diabetes and hypertension in low- and middle-income settings. *SAMJ South African Medical Journal*, 105(2): 98-102.

Dzudie, A., Ojji, D., Anisiuba, B.C., Abdou, S., Cornick, R.V., Damasceno, A., Kane, A., Mocumbi, A.O., Mohamed, A., Nel, G., Ogola, E., Onwubere, B.J.C., Otieno, H., Rayner, B.L., Schutte, A., Ali, I., Twagirumukiza, M., Poulter, N. and Mayosi, B.M. 2015. Development of the roadmap and guidelines for the prevention and management of high blood pressure in Africa: proceedings of the PASCAR hypertension task force meeting: Nairobi, Kenya, 27 October 2014. *Cardiovascular Journal of Africa*, 26(2): 82-85.

Ekengard, E., Glans, L., Cassells, I., Fogeron, T., Govender, P., Stringer, T., Chellan, P., Lisensky, G.C., Hersh, W.H., Doverbratt, I., Lidin, S., De Kock, C., Smith, P.J., Smith, G.S. and Nordlander, E. 2015. Antimalarial activity of ruthenium(II) and osmium(II) arene complexes with mono- and bidentate chloroquine analogue ligands. *Dalton Transactions*, 44: 19314-19329.

Emanuel, S. and Hawarden, D. 2015. Bee sting allergy and immunotherapy. *Current Allergy & Clinical Immunology*, 28(2): 128-131.

Emanuel, S. and Hawarden, D. 2015. Cows milk protein allergy. *Current Allergy & Clinical Immunology*, 28(3): 206-209.

Engel, M.E., Haileamlak, A., Zuhlke, L., Lemmer, C.E., Nkepu, S.A., Van De Wall, M., Daniel, W., Shung King, M. and Mayosi, B.M. 2015. Prevalence of rheumatic heart disease in 4720 asymptomatic scholars from South Africa and Ethiopia. *Heart*, 101: 1389-1394.

- Engel, N., Davids, M., Blankvoort, N., Pai, N.P., Dheda, K. and Pai, M. 2015. Compounding diagnostic delays: a qualitative study of point-of-care testing in South Africa. *Tropical Medicine & International Health*, 20(4): 493-500.
- Ertekin, E., Moosa, S., Roos-Hesselink, J.W. and Sliwa, K. 2015. Two cases of cardiac sarcoidosis in pregnant women with supraventricular arrhythmia. *Cardiovascular Journal of Africa*, 26(2): 96-100.
- Essop, M.R., Galie, N., Badesch, D.B., Laloo, U., Mahomed, A.G., Naidoo, D.P., Ntsekhe, M. and Williams, P.G. 2015. Management of pulmonary hypertension. *SAMJ South African Medical Journal*, 105(6): 437-439.
- Essouma, M. and Noubiap, J.J. 2015. Is air pollution a risk factor for rheumatoid arthritis? *Journal of Inflammation-London*, 12: 48(7pp).
- Essouma, M. and Noubiap, J.J. 2015. Therapeutic potential of folic acid supplementation for cardiovascular disease prevention through homocysteine lowering and blockade in rheumatoid arthritis patients. *Biomarker Research*, 3(24): 1-11.
- Essouma, M., Noubiap, J.J., Bigna, J.J., Nansseu, J.R., Jingi, A.M., Aminde, L. and Zafack, J. 2015. Hypertension prevalence, incidence and risk factors among children and adolescents in Africa: a systematic review and meta-analysis protocol. *BMJ Open*, 5: e008472(5pp).
- Everett-Murphy, K. and Webb, D. 2015. Brief behavioural change counselling and motivational interviewing to elicit healthy behavioural change. *South African Journal of Diabetes*, 8(4): 26-29.
- Everett-Murphy, K., de Villiers, A., Ketterer, E. and Steyn, K. 2015. Using formative research to develop a nutrition education resource aimed at assisting low-income households in South Africa adopt a healthier diet. *Health Education Research*, 30(6): 882-896.
- Ezzati, M., Obermeyer, Z., Tzoulaki, L., Mayosi, B.M., Elliott, P. and Leon, D. 2015. Contributions of risk factors and medical care to cardiovascular mortality trends. *Nature Reviews Cardiology*, 12: 508-530.
- Fick, L. 2015. Epoxy resin and illness in the workplace. *Current Allergy & Clinical Immunology*, 28(3): 196-204.
- Flood, D., Wallace, M., Racow, K., Kublin, J. and Bekker, L. 2015. Attracting, equipping and retaining young medical doctors in HIV vaccine science in South Africa. *Southern African Journal of HIV medicine*, 16(1): 364(6pp).
- Foil, D.A., Evans, K., Brahmandam, S., He, W., Brewster, P., Yu, S., Murphy, T., Cutlip, D., Dworkin, L.D., Jamerson, K., Henrich, W., Kalra, P.A., Tobe, S., Thomson, K., Holden, A. and Rayner, B.L. 2015. Regional and physician specialty-associated variations in the medical management of atherosclerotic renal-artery stenosis. *Journal of the American Society of Hypertension*, 9(6): 443-452.
- Fokom-Domgue, J., Combescure, C., Fokom-Defo, V., Tebeu, P.M., Vassilakos, P., Kengne, A.P. and Petigna, P. 2015. Performance of alternative strategies for primary cervical cancer screening in sub-Saharan Africa: systematic review and meta-analysis of diagnostic test accuracy studies. *The BMJ*, 351: h3084(11pp).
- Folb, N., Lund, C., Fairall, L., Timmerman, V., Levitt, N., Steyn, K. and Bachmann, M.O. 2015. Socioeconomic predictors and consequences of depression among primary care attenders with non-communicable diseases in the Western Cape, South Africa: cohort study within a randomised trial. *BMC Public Health*, 15: 1194(12pp).
- Folb, N., Timmerman, V., Levitt, N., Steyn, K., Bachmann, M.O., Lund, C., Bateman, E.D., Lombard, C., Gaziano, T., Zwarenstein, M. and Fairall, L. 2015. Multimorbidity, control and treatment of noncommunicable diseases among primary healthcare attenders in the Western Cape, South Africa. *SAMJ South African Medical Journal*, 105(8): 642-647.
- Ford, N., Meintjes, G., Pozniak, A., Bygrave, H., Hill, A., Peter, T., Davies, M., Grinsztejn, B., Calmy, A., Kumarasamy, N., Phanuphak, P., deBeaudrap, P., Vitoria, m., Doherty, M., Stevens, W.S. and Siberry, G.K. 2015. The future role of CD4 cell count for monitoring antiretroviral therapy. *Lancet Infectious Diseases*, 15: 241-247.
- Ford, N., Shubber, Z., Meintjes, G., Grinsztejn, B., Eholie, S., Mills, E., Davies, M., Vitoria, m., Penazzato, M., Nsanzimana, S., Frigati, L., O'Brien, D. and Ellman, T. 2015. Causes of hospital admission among people living with HIV worldwide: a systematic review and meta-analysis. *Lancet HIV*, 2: e438-e444.
- Frantz, J., Bezuidenhout, J., Burch, V.C., Mthembu, S., Rowe, m., Tan, C., Van Wyk, J. and Van Heerden, B. 2015. The impact of a faculty development programme for health professions educators in sub-Saharan Africa: an archival study. *BMC Medical Education*, 15:28(8pp).
- Fredericks, P., Britz, M., Eastman, R.W., Carr, J. and Bateman, K.J. 2015. Listerial Brainstem encephalitis treatable, but easily missed. *SAMJ South African Medical Journal*, 105(1): 17-20.
- Freercks, R. and Ndamase, S. 2015. The utility of urine sulphosalicylic acid testing in the detection of non-albumin proteinuria. *SAMJ South African Medical Journal*, 105(2): 153.

- Gabriel, M.S., Sonderup, M.W., Locketz, M.L., Bernon, M., Thomson, D., Gogela, N., Du Toit, J.M., Muller, E. and Spearman, W. 2015. A toxic brew. *The South African Gastroenterology Review*, 13(2): 30-32.
- Gabriels, G.A., Lambert, M.I., Smith, P.J., Wiesner, J.L. and Hiss, D. 2015. Melamine contamination in nutritional supplements – is it an alarm bell for the general consumer, athletes, and weekend warriors? *Nutrition Journal*, 14: 69(7pp).
- Gandhi, M., Glidden, D.V., Liu, A., Anderson, P.L., Horng, H., Defechereux, P., Guanira, J.V., Grinsztejn, B., Chariyalertsak, S., Bekker, L. and Grant, R. 2015. Strong correlation between concentrations of tenofovir (TFV) emtricitabine (FTC) in hair and TFV diphosphate and FTC triphosphate in dried blood spots in the iPrEx open label extension: implications for pre-exposure prophylaxis adherence monitoring. *Journal of Infectious Diseases*, 212: 1402-1406.
- Gane, E., Kershenobich, D., Seguin-Devaux, C., Kristian, P., Aho, I., Dalgard, O., Shestakova, I., Nymadawa, P., Blach, S., Acharya, S., Sonderup, M. and Spearman, C. 2015. Strategies to manage hepatitis C virus (HCV) infection disease burden – volume 2. *Journal of Viral Hepatitis*, 22(1): 46-73.
- Garcia-Prats, A.J., Draper, H.R., Thee, S., Dooley, K.E., McIlleron, H., Seddon, J.A., Wiesner, L., Castel, S.A., Schaaf, H.S. and Hesselning, A.C. 2015. Pharmacokinetics and safety of ofloxacin in children with drug-resistant tuberculosis. *Antimicrobial Agents and Chemotherapy*, 59(10): 6073-6079.
- Gaziano, T., Abrahams-Gessel, S., Denman, C., Montano, C.M., Khanam, M.A., Puoane, T. and Levitt, N. 2015. An assessment of community health workers' ability to screen for cardiovascular disease risk with a simple, non-invasive risk assessment instrument in Bangladesh, Guatemala, Mexico, and South Africa: an observational study. *The Lancet Global Health*, 3: e556-e563.
- Gaziano, T., Abrahams-Gessel, S., Surka, S., Sy, S., Pandya, A., Denman, C., Mendoza, C., Puoane, T. and Levitt, N. 2015. Cardiovascular disease screening by community health workers can be cost-effective in low- resource countries. *Health Affairs*, 34(9): 1538-1545.
- Gaziano, T., Cho, S., Sy, S., Pandya, A., Levitt, N. and Steyn, K. 2015. Increasing prescription length could cut cardiovascular disease burden and produce savings in South Africa. *Health Affairs*, 34(9): 1578-1585.
- Gcelu, A. and Kalla, A.A. 2015. Musculoskeletal disorders disease burden and challenges in the developing world. *SAMJ South African Medical Journal*, 105(12): 1070-1071.
- Geng, E.H., Neilands, T.B., Thiebaut, R., Bwana, M.B., Nash, D., Moore, R.J., Wood, R., Zannou, M.D., Althoff, K.N., Lim, P.L., Nachega, J., Easterbrook, P.J., Kambungu, A., Little, F., Nakigozi, G., Nakanjako, D., Kiggundu, V., Li, P.C.K., Bangsberg, D.R., Fox, M.P., Prozesky, H., Hunt, P.W., Davies, M., Reynolds, S.J., Egger, M., Yiannoutsos, C., Vittinghoff, E.V., Deeks, S.G. and Martin, J.N. 2015. CD4+ T cell recovery during suppression of HIV replication: an international comparison of the immunological efficacy of antiretroviral therapy in North America, Asia and Africa. *International Journal of Epidemiology*, 44(1): 251-263.
- Getahun, H., Matteelli, A., Abubakar, I., Abdel Aziz, M., Baddeley, A., Barreira, D., Den Boon, S., Gutierrez, S.M.B., Bruchfeld, J., Burhan, E., Cavalcante, S.C., Cedillos, R., Chaisson, R., Chee, C.B.E., Chesire, L., Corbett, E.L., Dara, M., Denholm, J., de Vries, G., Falzon, D., Ford, N., Gale-Rowe, M., Gilpin, C., Girardi, E., Go, U.-Y., Govindasamy, D., Grant, A., Grzemska, M., Harris, R., Horsburgh Jr, C.R., Ismayilov, A., Jaramillo, E., Kik, S.K., Kranzer, K., Lienhardt, C., LoBue, P., Linnroth, K., Marks, G., Menzies, D., Migliori, G.B., Mosca, D., Mukadi, Y.-D., Mwinga, A., Nelson, L., Nishikiori, N., Oordt-Speets, A., Rangaka, M.X., Reis, A., Rotz, L., Sandgren, A., Schepis, M.S., Schnemann, H.J., Sharm, S., Sotgiu, G., Stagg, R., Sterling, T.R., Tayeb, T., Uplekar, M., van der Werf, M., Van de Velde, W., van Kester, F., Van't Hoog, A., Varma, J.K., Vezhnina, N., Voniatis, C., Vonk Noordegraaf-Schouten, M., Weil, D., Weyer, K., Wilkinson, R.J., Yoshiyama, T., Zellweger, J.P. and Raviglione, M. 2015. Management of latent Mycobacterium tuberculosis infection: WHO guidelines for low tuberculosis burden countries. *European Respiratory Journal*, 46: 1563-1576.
- Gewitz, M.H., Baltimore, B.S., Tani, L.Y., Sable, C.A., Shulman, S.T., Carapetis, J., Remenyi, B., Taubert, K., Bolger, A.F., Beeran, L., Mayosi, B.M., Beaton, A., Pandian, N.G. and Kaplan, E.L. 2015. Revision of the Jones Criteria for the diagnosis of acute rheumatic fever in the era of doppler echocardiography a scientific statement from the American Heart Association. *Circulation*, 131: 1806-1818.
- Goedecke, J.H., Choull, E., Livingstone, D.E.W., Stimson, R.H., Hayes, P., Adams, K.G., Dave, J.A., Victor, H.S., Levitt, N., Kahn, S.E., Seckl, J., Walker, B.R. and Olsson, T. 2015. Glucocorticoid receptor gene expression in adipose tissue and associated metabolic risk in black and white South African women. *International Journal of Obesity*, 39(2): 303-311.
- Goedecke, J.H., Keswell, D., Weinreich, C., Fan, J., Hauksson, J.H., Victor, H.S., Utzschneider, K.M., Levitt, N., Lambert, E.V., Kahn, S.E. and Olsson, T. 2015. Ethnic differences in hepatic and systemic

- insulin sensitivity and their associated determinants in obese black and white South African women. *Diabetologia*, 58: 2647-2652.
- Govender, K., Du Plessis, L., Gibhard, L. and Wiesner, L. 2015. Development and validation of a LC-MS/MS method for the quantitation of lumefantrine in mouse whole blood and plasma. *Journal of Chromatography B-Analytical Technologies in the Biomedical and Life Sciences*, 985: 6-13.
- Govender, M., Aldous, C., Ferndale, L., Thomson, S.R. and Clarke, D.L. 2015. Self-expanding metal stent placement for oesophageal cancer without fluoroscopy is safe and effective. *SAMJ South African Medical Journal*, 105(10): 858-861.
- Grimsrud, A.T., Sharp, J., Kalombo, C., Bekker, L. and Myer, L. 2015. Implementation of community-based adherence clubs for stable antiretroviral therapy patients in Cape Town, South Africa. *Journal of the International AIDS Society*, 18: 19984(8pp).
- Guewo-Fokeng, M., Sobngwi, E., Atogho-Tiedeu, B., Donfack, O.S., Noubiap, J.J., Ngwa, E.N., Mato-Mofo, E.P., Fosso, P.P., Djahmeni, E., Djokam-Dadjeu, R. and Evehe, M.B. 2015. Contribution of the TCF7L2 rs7903146 (C/T) gene polymorphism to the susceptibility to type 2 diabetes mellitus in Cameroon. *Journal of Diabetes and Metabolic Disorders*, 14(26): 1-5.
- Gumbo, T., Angulo-Barturen, I. and Ferrer-Bazaga, S. 2015. Pharmacokinetic-pharmacodynamic and dose-response relationships of antituberculosis drugs: recommendations and standards for industry and academia. *Journal of Infectious Diseases*, 211(3): S96-S106.
- Gumbo, T., Lenaerts, A.J., Hanna, D., Romero, K. and Nuermberger, E. 2015. Nonclinical models for antituberculosis drug development: a landscape analysis. *Journal of Infectious Diseases*, 211(Suppl 3): S83-S95.
- Gumbo, T., Pasipanodya, J.G., Nuermberger, E., Romero, K. and Hanna, D. 2015. Correlations between the hollow fiber model of Tuberculosis and therapeutic events in Tuberculosis patients: learn and confirm. *Clinical Infectious Diseases*, 61(Suppl 1): S18-S24.
- Gumbo, T., Pasipanodya, J.G., Romero, K., Hanna, D. and Nuermberger, E. 2015. Forecasting accuracy of the hollow fiber model of Tuberculosis for clinical therapeutic outcomes. *Clinical Infectious Diseases*, 61(Suppl 1): S25-S31.
- Gupta, R.K., Lucas, S., Fielding, K.L. and Lawn, S.D. 2015. Prevalence of tuberculosis in post-mortem studies of HIV-infected adults and children in resource-limited settings: a systematic review and meta-analysis. *AIDS*, 29: 1987-2002.
- Hall, I.P., Fowler, A.V., Gupta, A., Tetzlaff, K., Nivens, M.C., Sarno, M., Finnigan, H.A., Bateman, E.D. and Sutherland, E.R. 2015. Efficacy of BI 671800, an oral CRTH2 antagonist, in poorly controlled asthma as sole controller and in the presence of inhaled corticosteroid treatment. *Pulmonary Pharmacology & Therapeutics*, 32: 37-44.
- Halle, M.P., Takongue, C., Kengne, A.P., Kaze, F.K. and Ngu, K.B. 2015. Epidemiological profile of patients with end stage renal disease in a referral hospital in Cameroon. *BMC Nephrology*, 16: 59 (8pp).
- Harries, A.D., Lawn, S.D., Suthar, A.B. and Granich, R. 2015. Benefits of combined preventive therapy with co-trimoxazole and isoniazid in adults living with HIV: time to consider a fixed-dose, single tablet coformulation. *Lancet Infectious Diseases*, 15: 1492-1496.
- Hatzakis, A., Chulanov, V., Gadano, A.C., Bergin, C., Ben-Ari, Z., Mossong, J., Schreter, I., Baatarkhuu, O., Acharya, S., Aho, I., Anand, C., Andersson, M.I., Arendt, V., Arkkila, P., Barclay, K., Bessone, F., Blach, S., Blokhina, N., Brunton, C.R., Chaudhari, G., Cisneros, L., Croes, E.A., Dahgwahdorj, Y.A., Dalgard, O., Daruich, J.R., Dashdorj, N.R., Davaadorj, D., De Knecht, R.J., De Vree, M., Estes, C., Flisiak, R., Gane, E., Gower, E., Halota, W., Henderson, C., Hoffmann, P., Hornell, J., Houlihan, D., Hrusovskiy, S., Jarcuska, P., Kershenovich, D., Kostrzewska, K., Kristian, P., Leshno, M., Lurie, Y., Mahomed, A., Mamonova, N., Mendez-Sanchez, N., Norris, S., Nurmukhamet, E., Nymadawa, P., Oltman, M., Oyunbileg, J., Oyunsuren, T.S., Papatheodorid, G., Pimenov, N., Prabodial-Sing, N., Prins, M., Radke, S., Rakhmanova, A., Razavi-Shearer, K., Reesink, H.W., Ridruejo, E., Safadi, R., Sagalova, O., Sanchez Avila, A., Sanduijav, R., Saraswat, V., Seguin-Devau, C., Shah, R.S., Shestakova, I., Shevaldin, A., Shibolet, O., Silva, M.O., Sokolov, S., Sonderup, M., Souliotis, K. and Spearman, C. 2015. The present and future disease burden of hepatitis C virus (HCV) infections with today's treatment paradigm - volume 2. *Journal of Viral Hepatitis*, 22(Supplement 1): 26-45.
- Heinrich, N., Dawson, R., Du Bois, J., Narunsky, K., Horwith, G., Phipps, A., Nacy, C., Aarnoutse, R., Boeree, M.J., Gillespie, S., Venter, A., Henne, S., Rachow, A., Phillips, P.P.J., Hoelscher, M. and Diacon, A. 2015. Early phase evaluation of SQ109 alone and in combination with rifampicin in pulmonary TB patients. *Journal of Antimicrobial Chemotherapy*, 70: 1558-1566.
- Henry, M., Wolf, P., Ross, I.L. and Thomas, K. 2015. Poor quality of life, depressed mood, and memory impairment may be mediated by sleep disruption in patients with Addison's disease. *Physiology & Behavior*, 151: 379-385.

- Hermans, S., Boulle, A.M., Caldwell, J., Pienaar, D. and Wood, R. 2015. Temporal trends in TB notification rates during ART scale-up in Cape Town: an ecological analysis. *Journal of the International AIDS Society*, 18: 20240(7pp).
- Hermans, S., Horsburgh Jr, C.R. and Wood, R. 2015. A century of tuberculosis epidemiology in the northern and southern hemisphere: the differential impact of control interventions. *PLoS One*, 10(8): e0135179(13pp).
- Hess, A.T., Bissell, M.M., Ntusi, N., Lewis, A.J.M., Tunnicliffe, E.M., Greiser, A., Stalder, A.F., Francis, J.M., Myerson, S.G., Neubauer, S. and Robson, M.D. 2015. Aortic 4D flow: quantification of signal-to-noise ratio as a function of field strength and contrast enhancement for 1.5T, 3T, and 7T. *Magnetic Resonance in Medicine*, 73: 1864-1871.
- Hesseling, A.C., Jaspan, H.B., Black, G.F., Nene, N. and Walzl, G. 2015. Immunogenicity of BCG in HIV-exposed and non-exposed infants following routine birth or delayed vaccination. *International Journal of Tuberculosis and Lung Disease*, 19(4): 454-462.
- Hlela, C., Lunjani, N., Gumedze, F.N., Kakande, J. and Khumalo, N. 2015. Affordable moisturisers are effective in atopic eczema: a randomised controlled trial. *SAMJ South African Medical Journal*, 105(9): 780-784.
- Hodkinson, B. and Makda, M.A. 2015. Evidence-based treatment of systemic lupus erythematosus and its complications. *SAMJ South African Medical Journal*, 105(12): 1075(5pp).
- Hofman, K.J., Cook, C.D. and Levitt, N. 2015. Preventing diabetic blindness: a priority for South Africa. *SAMJ South African Medical Journal*, 104(10): 661-662.
- Hogeweg, L., Sanchez, C.I., Maduskar, P., Philipsen, R.H.H.M., Story, A., Dawson, R., Theron, G., Dheda, K., Peters-Bax, L. and van Ginneken, B. 2015. Automatic detection of tuberculosis in chest radiographs using a combination of textural, focal, and shape abnormality analysis. *IEEE Transactions on Medical Imaging*, 34(12): 2429-2442.
- Hohlfeld, J.M., Furtwaengler, A., Konen-Bergmann, M., Wallenstein, G., Walter, B. and Bateman, E.D. 2015. Cardiac safety of tiotropium in patients with COPD: a combined analysis of Holter-ECG data from four randomised clinical trials. *International Journal of Clinical Practice*, 69(1): 72-80.
- Hughes, J., Isaakidis, P., Andries, A., Mansoor, H., Cox, V., Meintjes, G. and Cox, H. 2015. Linezolid for multidrug-resistant tuberculosis in HIV-infected and -uninfected patients. *European Respiratory Journal*, 46: 271-273.
- Igwesi-Chidobe, C.N., Godfrey, E.L. and Kengne, A.P. 2015. Effective components of exercise and physical activity-related behaviour-change interventions for chronic non-communicable diseases in Africa: protocol for a systematic mixed studies review with meta-analysis. *BMJ Open*, 5: e008036(18pp).
- Issarow, C., Mulder, N.J. and Wood, R. 2015. Modelling the risk of airborne infectious disease using exhaled air. *Journal of Theoretical Biology*, 372: 100-106.
- Ives-Deliperi, V. and Butler, J.T. 2015. Functional mapping in pediatric epilepsy surgical candidates: functional magnetic resonance imaging under sedation with chloral hydrate. *Pediatric Neurology*, 53: 478-484.
- Jabar, A., Barth, D., Matzopoulos, R. and Engel, M.E. 2015. Is the introduction of violence and injury observatories associated with a reduction of violence in adult populations? Rationale and protocol for a systematic review. *BMJ Open*, 5: e007073(5pp).
- Jacobs, A. and Wilkinson, R.J. 2015. Humoral immunity in tuberculosis. *European Journal of Immunology*, 45: 647-649.
- Jacobs, L., De Kock, C., De Villiers, K., Smith, P.J., Smith, V., van Otterlo, W.A.L. and Blackie, A.L. 2015. Design, synthesis, and evaluation of novel Ferroquine and Phenylequine analogues as potential antiplasmodial agents. *ChemMedChem*, 10: 2099-2110.
- Jama, Z., Chin, A., Badri, M. and Mayosi, B.M. 2015. Performance of re-used pacemakers and implantable cardioverter defibrillators compared with new devices at Groote Schuur Hospital in Cape Town, South Africa. *Cardiovascular Journal of Africa*, 26(4): 181-187.
- James, K., Grace, L., Thomas, K. and Combrinck, M.I. 2015. Associations between CAMCOG-R subscale performance and formal education attainment in South African older adults. *International Psychogeriatrics*, 27(2): 251-260.
- James, M.F.M., Joubert, I., Michell, W.L., Nicol, A., Navsaria, P.H. and Gillespie, R.S. 2015. Faulty risk-of-bias assessment in a meta-analysis of hydroxyethyl starch for non-septic ICU patients: a rebuttal. *Critical Care*, 19: 444.
- Janssen, S., Hermans, S., Knap, M., Moekotte, A., Rossatanga, E.G., Adegnika, A.A., Belard, S., Hanscheid, T. and Grobusch, M. 2015. Impact of anti-retroviral treatment and cotrimoxazole prophylaxis on helminth infections in HIV-infected patients in Lambarn, Gabon. *Plos Neglected Tropical Diseases*, 9(5): e0003769(13pp).
- Janssen, S., Wieten, R.W., Stolp, S., Cremers, A.L., Rossatanga, E.G., Klipstein-Grobusch, K., Belard, S. and Grobusch, M. 2015. Factors associated with

- retention to care in an HIV clinic in Gabon, central Africa. *PLoS One*, 10(10): e0140746(14pp).
- Jarvis, J.N., Meintjes, G., Bicanic, T., Buffa, V., Hogan, L., Mo, S., Tomlinson, G.S., Kropf, P., Noursadeghi, M. and Harrison, T.S. 2015. Cerebrospinal fluid cytokine profiles predict risk of early mortality and immune reconstitution inflammatory syndrome in HIV-associated cryptococcal meningitis. *PLoS Pathogens*, 11(4): e1004754(17pp).
- Jobson, G., Struthers, H. and McIntyre, J.A. 2015. In the fell clutch of circumstance: HIV and men who have sex with men in Sub-Saharan Africa. *Current HIV/AIDS Report*, 12: 164-172.
- Johnson, L., Rehle, T., Jooste, S. and Bekker, L. 2015. Rates of HIV testing and diagnosis in South Africa: successes and challenges. *AIDS*, 29: 1401-1409.
- Johnson, L.F., Dorrington, R.E., Laubscher, R., Hoffmann, C.J., Wood, R., Fox, M.P., Cornell, M., Schomaker, M., Prozesky, H., Tanser, F., Davies, M. and Boulle, A.M. 2015. A comparison of death recording by health centres and civil registration in South Africans receiving antiretroviral treatment. *Journal of the International AIDS Society*, 18: 20628(7pp).
- Johnson, T.D., Grainger Gasser, A., Boardman, C., Remenyi, B., Wyber, R. and Mayosi, B.M. 2015. The 5 x 5 path toward rheumatic heart disease control outcomes from the third rheumatic heart disease forum. *Global Heart*, 10(1): 75-78.
- Jones, C.E., Hesselning, A.C., Tena-Coki, N., Scriba, T., Chegou, N.N., Kidd, M., Wilkinson, R.J. and Kampmann, B. 2015. The impact of HIV exposure and maternal mycobacterium tuberculosis infection on infant immune responses to bacille Calmette-Gurin vaccination. *AIDS*, 29: 155-165.
- Jones, E. and Rayner, B.L. 2015. Hypertension, end-stage renal disease and mesangiocapillary glomerulonephritis in methamphetamine users. *SAMJ South African Medical Journal*, 105(3): 199-201.
- Kakande, B. 2015. Clothing contact dermatitis. *Current Allergy & Clinical Immunology*, 28(1): 46-52.
- Kakande, B. and Lehloeny, R.J. 2015. Drug reactions associated with antituberculosis drugs. *Current Allergy & Clinical Immunology*, 28(4): 264-268.
- Kakande, B., Isaacs, T., Muloiwa, R., Dlamini, S.K. and Lehloeny, R.J. 2015. Case Report: Stevens-Johnson syndrome following a single double dosing of nevirapine-containing regimen once in an HIV-infected woman on long-term antiretroviral therapy. *F1000 Research*, 4: 175(5pp).
- Kalula, S.Z., Ferreira, M., Swingler, G., Badri, M. and Sayer, A.A. 2015. Prevalence of falls in an urban community-dwelling older population of Cape Town, South Africa. *Journal of Nutrition Health & Aging*, 19(10): 1024-1031.
- Kalula, S.Z., Ferreira, M., Swingler, G.H. and Badri, M. 2015. Ethnic differences in rates and causes of falls in an urban community-dwelling older population in South Africa. *Journal of the American Geriatrics Society*, 63(2): 403-404.
- Kamali, A., Price, M.A., Lakhi, S., Karita, E., Inambao, M., Sanders, E.J., Anzala, O., Latka, M.H., Bekker, L., Kaleebu, P., Asiki, G., Ssetaala, A., Ruzagira, E., Allen, S., Farmer, P., Hunter, E., Mutua, G., Makkan, H., Tichacek, A., Brill, I.K., Fast, P., Stevens, G., Chetty, P., Amornkul, P.N. and Gilmour, J. 2015. Creating an African HIV clinical research and prevention trials network: HIV prevalence, incidence and transmission. *PLoS One*, 10(1): e0116100(19pp).
- Kamkuemah, M.N., Kaplan, R., Bekker, L., Little, F. and Myer, L. 2015. Renal impairment in HIV-infected patients initiating tenofovir-containing antiretroviral therapy regimens in a primary healthcare setting in South Africa. *Tropical Medicine & International Health*, 20(4): 518-526.
- Kastelein, J., Ginsberg, H.N., Langslet, G., Hovingh, G.K., Ceska, R., Dufour, R., Blom, D., Civeira, F., Krempf, M., Lorenzato, C., Zhao, J., Porady, R., Baccara-Dinet, M.T., Gipe, D.A., Geiger, M.J. and Farnier, M. 2015. ODYSSEY FH I and FH II: 78 week results with alirocumab treatment in 735 patients with heterozygous familial hypercholesterolaemia. *European Heart Journal*, 36: 2996-3003.
- Katchanov, J., Blechschmidt, C., Nielsen, K., Branding, G., Arasteh, K., Tintelnot, K., Meintjes, G., Boulware, D.R. and Stocker, H. 2015. Cryptococcal meningoencephalitis relapse after an eight-year delay: an interplay of infection and immune reconstitution. *International Journal of Std & Aids*, 26(12): 912-914.
- Katsidzira, L. and Thomson, S.R. 2015. The epidemiology of colorectal cancer in South Africa: Room for improvement. *The South African Gastroenterology Review*, 13(2): 25-28.
- Kaur, G., Singh, K., Pavadai, E., Njoroge, M., Espinoza-Moraga, M., De Kock, C., Smith, P.J., Wittlin, S. and Chibale, K. 2015. Synthesis of fusidic acid bioisosteres as antiplasmodial agents and molecular docking studies in the binding site of elongation factor-G. *MedChemComm*, 6: 2023-2028.
- Kaur, H., Balzarini, J., De Kock, C., Smith, P.J., Chibale, K. and Singh, K. 2015. Synthesis, antiplasmodial activity and mechanistic studies of pyrimidine-5-carbonitrile and quinoline hybrids. *European Journal of Medicinal Chemistry*, 101: 52-62.

- Kaur, H., Machado, M., De Kock, C., Smith, P.J., Chibale, K., Prudencio, M. and Singh, K. 2015. Primaquine-pyrimidine hybrids: synthesis and dual-stage antiplasmodial activity. *European Journal of Medicinal Chemistry*, 101: 266-273.
- Kaze, F.F., Halle, M.P., Mopa, H.T., Ashuntantang, G., Fouda, H., Ngogang, J. and Kengne, A.P. 2015. Prevalence and risk factors of chronic kidney disease in urban adult Cameroonians according to three common estimators of the glomerular filtration rate: a cross-sectional study. *BMC Nephrology*, 16: 96(8pp).
- Kaze, F.F., Kengne, A.P., Mambap, A.T., Halle, M.P., Mbanya, D. and Ashuntantang, G. 2015. Anemia in patients on chronic hemodialysis in Cameroon: prevalence, characteristics and management in low resources setting. *African Health Sciences*, 15(1): 253-260.
- Kaze, F.F., Meto, D.T., Halle, M.P., Ngogang, J. and Kengne, A.P. 2015. Prevalence and determinants of chronic kidney disease in rural and urban Cameroonians: a cross-sectional study. *BMC Nephrology*, 16: 117(10pp).
- Kengne, A.P., Mason-Jones, A.J., Sliwa, K., Mayosi, B.M., Stein, D.J. and Matzopoulos, R. 2015. Global, regional, and national incidence, prevalence, and years lived with disability for 301 acute and chronic diseases and injuries in 188 countries, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *Lancet*, 386: 743-800.
- Kengne, A.P., Matzopoulos, R., Mason-Jones, A.J. and Sliwa, K. 2015. Global, regional, and national age-sex specific all-cause and cause-specific mortality for 240 causes of death, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *Lancet*, 385: 117-171.
- Kengne, A.P., Matzopoulos, R., Sliwa, K., Mayosi, B.M. and Stein, D.J. 2015. Global, regional, and national comparative risk assessment of 79 behavioural, environmental and occupational, and metabolic risks or clusters of risks in 188 countries, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *Lancet*, 386: 2287-2323.
- Kenyon, C. and Buyze, J. 2015. No association between gender inequality and peak HIV prevalence in developing countries – an ecological study. *Aids Care*, 27(2): 150-159.
- Kenyon, C. and Colebunders, R. 2015. Correlates of concurrency among young people in Carletonville, South Africa. *SAHARA: Journal of Social Aspects of HIV/AIDS*, 12(1): 51-58.
- Kenyon, C., Kirungi, W., Kaharuzza, F., Buyze, J. and Bunnell, R. 2015. Who knows their partner's HIV status? results from a nationally representative survey in Uganda. *Jacids-Journal of Acquired Immune Deficiency Syndromes*, 69: 92-97.
- Kenyon, C., Osbak, K., Buyze, J. and Chico, M.R. 2015. The changing relationship between bacterial STIs and HIV prevalence in South Africa – an ecological study. *International Journal of Std & Aids*, 26(8): 556-564.
- Kenyon, C., Tsoumanis, A. and Schwartz, I.S. 2015. HIV prevalence correlates with high-risk sexual behavior in Ethiopia's regions. *PLoS One*, 10(10): e0140835(13pp)
- Kerkhoff, A., Wood, R., Cobelens, F., Gupta-Wright, A., Bekker, L. and Lawn, S.D. 2015. The predictive value of current haemoglobin levels for incident tuberculosis and/or mortality during long-term antiretroviral therapy in South Africa: a cohort study. *BMC Medicine*, 13: 70(13pp).
- Kerpel-Fronius, S., Rosenkranz, B., Allen, E., Bass, R., Mainard, J.D., Dodoo, A., Dubois, D.J., Hela, M., Kern, S., Massud, J., Silva, H. and Whitty, J. 2015. Education and training for medicines development, regulation and clinical research in emerging countries. *Frontiers in Pharmacology*, 6: 80(8pp).
- Kerstjens, H.A.M., Casale, T.B., Bleecker, E.R., Meltzer, E.O., Pizzichini, E., Schmidt, O., Engel, M., Bour, L., Verkleij, C.B., Moroni-Zentgraf, P. and Bateman, E.D. 2015. Tiotropium or salmeterol as add-on therapy to inhaled corticosteroids for patients with moderate symptomatic asthma: two replicate, double-blind, placebo-controlled, parallel-group, active-comparator, randomised trials. *Lancet Respiratory Medicine*, 3: 367-376.
- Kew, M.C. 2015. Obesity as a cause of hepatocellular carcinoma. *Annals Of Hepatology*, 14(3): 299-303.
- Kingue, S., Ngoe, C.N., Menanga, P., Jingi, A.M., Noubiap, J.J., Fesuh, B., Nouedoui, C., Andze, G. and Muna, W.F.T. 2015. Prevalence and risk factors of hypertension in urban areas of Cameroon: a nationwide population-based cross-sectional study. *Journal of Clinical Hypertension*, 17(10): 819-824.
- Knight, L., Todd, G., Muloiwa, R., Matjila, M. and Lehloenya, R.J. 2015. Stevens Johnson Syndrome and toxic epidermal necrolysis: maternal and foetal outcomes in twenty- two consecutive pregnant HIV infected women. *PLoS One*, 10(8): e0135501(11pp).
- Koegelenberg, C., Theron, J., Bruwer, J.W., Allwood, B., Vorster, M.J., von Groote-Bidlingmaier, F. and Dheda, K. 2015. Endoscopic lung volume reduction in severe emphysema. *SAMJ South African Medical Journal*, 105(9): 721-723.
- Koegelenberg, C., Theron, J., Dheda, K., Bruwer, J.W., Allwood, B., Vorster, M., von Groote-Bidlingmaier,



- F., Slebos, D.-J., Shah, P. and Herth, F. 2015. Recommendations for the use of endoscopic lung volume reduction in South Africa: role in the treatment of emphysema. *SAMJ South African Medical Journal*, 105(10): 810-815.
- Koegelenberg, C.F.N., Slebos, D.-J., Shah, P.I., Theron, J., Dheda, K., Allwood, B. and Herth, F. 2015. Time for the global rollout of endoscopic lung volume reduction. *Respiration*, 90: 430-440.
- Koller, M., Fatti, G., Chi, B.H., Keiser, O., Hoffmann, C.J., Wood, R., Prozesky, H., Stinson, K., Giddy, J., Mutevedzi, P., Fox, M.P., Law, M., Boulle, A.M. and Egger, M. 2015. Risk charts to guide targeted HIV-1 viral load monitoring of ART: Development and validation in patients from resource-limited settings. *Jaids-Journal of Acquired Immune Deficiency Syndromes*, 70(3): e110-e119.
- Krige, J.E.J., Kotze, U.K., Setshedi, M., Nicol, A. and Navsaria, P.H. 2015. Prognostic factors, morbidity and mortality in pancreatic trauma: a critical appraisal of 432 consecutive patients treated at a Level 1 Trauma Centre. *Injury-International Journal of the Care of the Injured*, 46: 830-836.
- Kuate-Tegueu, C., Temfack, E., Ngankou, S., Doumbe, J., Djientcheu, V.P. and Kengne, A.P. 2015. Prevalence and determinants of diabetic polyneuropathy in a sub-Saharan African referral hospital. *Journal of the Neurological Sciences*, 355: 108-112.
- Kullin, B., Meggersee, R.L., D'Alton, J., Galvao, B., Rajabally, M.N., Whitelaw, A.C., Bamford, C., Reid, S.J. and Abratt, V.R. 2015. Prevalence of gastrointestinal pathogenic bacteria in patients with diarrhoea attending Groote Schuur Hospital, Cape Town, South Africa. *SAMJ South African Medical Journal*, 105(2): 121-125.
- Lado, M., Walker, N.F., Baker, P., Haroon, S., Brown, C.S., Youkee, D., Studd, N., Kessete, Q., Maini, R., Boyles, T.H., Hanciles, E., Wurie, A., Kamara, T.B., Johnson, O. and Leather, A.J.M. 2015. Clinical features of patients isolated for suspected Ebola virus disease at Connaught Hospital, Freetown, Sierra Leone: a retrospective cohort study. *Lancet Infectious Diseases*, 15: 1024-1033.
- Lai, R., Meintjes, G., Wilkinson, K., Graham, C.M., Marais, S., van Der Plas, H., Deffur, A., Schutz, C., Bloom, C., Munagala, I., Anguiano, E., Goliath, R.T., Maartens, G., Banchereau, J., Chaussabel, D., O'Garra, A. and Wilkinson, R.J. 2015. HIV-Tuberculosis-Associated immune reconstitution inflammatory syndrome is characterized by Toll-like receptor and inflammasome signalling. *Nature Communications*, 6: 8451(11pp).
- Laing, G., Bruce, J., Skinner, D., Allorto, N., Aldous, C., Thomson, S.R. and Clarke, D. 2015. Using a hybrid electronic medical record system for the surveillance of adverse surgical events and human error in a developing world surgical service. *World Journal of Surgery*, 39: 70-79.
- Lamont, K., Nduhirabandi, F., Adam, T., Thomas, P., Opie, L.H. and Lecour, S. 2015. Role of melatonin, melatoninreceptorsandSTAT3inthecardioprotective effect of chronic and moderate consumption of red wine. *Biochemical and Biophysical Research Communications*, 465: 719-724.
- Lavatelli, F., Imperlini, E., Orr, S., Rognoni, P., Sarnataro, D., Palladini, G., Malpasso, G., Soriano, M.E., Di Fonzo, A., Valentini, V., Gneccchi, M., Perlini, S., Salvatore, F. and Merlini, G. 2015. Novel mitochondrial protein interactors of immunoglobulin light chains causing heart amyloidosis. *Faseb Journal*, 29: 4614-4628.
- Lawn, S.D. 2015. Advances in diagnostic assays for tuberculosis. *Cold Springs Harbor Perspectives in Medicine*, 5(12): a017806(18pp).
- Lawn, S.D. and Nicol, M.P. 2015. Dead or Alive: can viability staining predict response to tuberculosis treatment. *Clinical Infectious Diseases*, 60(8): 1196-1198.
- Lawn, S.D. and Wilkinson, R.J. 2015. ART and prevention of HIV-associated Tuberculosis. *Lancet HIV*, 2: e221-e222.
- Lawn, S.D., Kerkhoff, A., Burton, R., Schutz, C., Van Wyk, G., Vogt, M.C., Pahlana, P., Nicol, M.P. and Meintjes, G. 2015. Rapid microbiological screening for tuberculosis in HIV-positive patients on the first day of acute hospital admission by systematic testing of urine samples using Xpert MTB/RIF: a prospective cohort in South Africa. *BMC Medicine*, 13: 192(13pp).
- Lawn, S.D., Kerkhoff, A., Nicol, M.P. and Meintjes, G. 2015. Underestimation of the true specificity of the urine Lipoarabinomannan point-of-care diagnostic assay for HIV-Associated Tuberculosis. *JAIDS-Journal of Acquired Immune Deficiency Syndromes*, 69(4): e144-e146.
- Lawn, S.D., Nicol, M.P. and Corbett, E.L. 2015. Effect of empirical treatment on outcomes of clinical trials of diagnostics assays for tuberculosis. *Lancet Infectious Diseases*, 15: 17-18.
- Le Manach, C., Paquet, T., Brunschwig, C., Njoroge, M., Han, Z., Cabrera, D.G., Bashyam, S., Dhinakaran, R., Taylor, D., Reader, J., Botha, M., Churchyard, A., Lauterbach, S., Coetzer, T.L., Birkholtz, L.-M., Meister, S., Winzeler, E.A., Waterson, D., Witty, M.J., Wittlin, S., Jimnez-Daz, M., Santos Martnez, M., Ferrer, S., Angulo-Barturen, I., Street, L.J. and Chibale, K. 2015. A novel pyrazolopyridine with in vivo activity in *Plasmodium berghei* - and *Plasmodium falciparum*-infected mouse models from structure-activity

- relationship studies around the core of recently identified antimalarial Imidazopyridazines. *Journal of Medicinal Chemistry*, 58: 8713-8722.
- Lee Pan, E.B. and Tucker, L.M. 2015. An approach to epilepsy. *SAMJ South African Medical Journal*, 105(8): 693(3pp).
- Lehloenya, R.J., Muloiwa, R., Dlamini, S.K., Gantsho, N., Todd, G. and Dheda, K. 2015. Lack of cross-toxicity between isoniazid and ethionamide in severe cutaneous adverse drug reactions: a series of 25 consecutive confirmed cases. *Journal of Antimicrobial Chemotherapy*, 70: 2648-2651.
- Lekoubou, A., Nkoke, C., Dzudie, A. and Kengne, A.P. 2015. Stroke admission and case-fatality in an urban medical unit in sub-Saharan Africa: a fourteen year trend study from 1999 to 2012. *Journal of the Neurological Sciences*, 350: 24-32.
- Leon, N., Surender, R., Bobrow, K.L., Muller, J. and Farmer, A. 2015. Improving treatment adherence for blood pressure lowering via mobile phone SMS-messages in South Africa: a qualitative evaluation of the SMS-text adherence support (StAR) trial service organization, utilization, and delivery of care. *BMC Family Practice*, 16: 80(10pp).
- Levitt, N., Puoane, T., Denman, C., Abrahams-Gessel, S., Surka, S., Mendoza, C., Khanam, M.A., Sartaj, A. and Gaziano, T.A. 2015. Referral outcomes of individuals identified at high risk of cardiovascular disease by community health workers in Bangladesh, Guatemala, Mexico, and South Africa. *Global Health Action*, 8: 26318 (7pp).
- Liyanage, T., Ninomiya, T., Jha, V., Neal, B., Patrice, H.M., Okpechi, I.G., Zhao, M.-H., Lv, J., Garg, A.X., Knight, J., Rodgers, A., Gallagher, M., Kotwal, S., Cass, A. and Perkovic, V. 2015. Worldwide access to treatment for end-stage kidney disease: a systematic review. *Lancet*, 385: 1975-1982.
- London, G., Mayosi, B.M. and Khati, M. 2015. Isolation and characterization of 2-F-RNA aptamers against whole HIV-1 subtype C envelope pseudovirus. *Biochemical and Biophysical Research Communications*, 456: 428-433.
- Lowe, D.M., Bangani, N.M., Goliath, R.T., Kampmann, B., Wilkinson, K., Wilkinson, R.J. and Martineau, A. 2015. Effect of antiretroviral therapy on HIV-mediated impairment of the neutrophil antimycobacterial response. *Annals of the American Thoracic Society*, 12(11): 1627-1637.
- Lundgren, J., Babiker, A., Gordin, F., Emery, S., Grund, B., Sharma, S., Avihingsanon, A.-C., Cooper, D., Ftenkheuer, G., Llibre, J.M., Molina, J.-M., Munderi, P., Schechter, M. and Wood, R. 2015. Initiation of antiretroviral therapy in early asymptomatic HIV infection. *New England Journal of Medicine*, 373: 795-807.
- Maarman, G., Blackhurst, D.M., Thienemann, F., Blauwet, L., Butrous, G., Davies, N.H., Sliwa, K. and Lecour, S. 2015. Melatonin as a preventive and curative therapy against pulmonary hypertension. *Journal of Pineal Research*, 59: 343-353.
- Maartens, G. and Meintjies, G. 2015. Lower-dose efavirenz: what is needed before implementation? *Lancet*, 15(7): 749-751.
- Malan, Z., Mash, B. and Everett-Murphy, K. 2015. Development of a training programme for primary care providers to counsel patients with risky lifestyle behaviours in South Africa. *African Journal of Primary Health Care & Family Medicine*, 7(1): 819(8pp).
- Malan, Z., Mash, B. and Murphy, K. 2015. A situational analysis of training for behaviour change counselling for primary care providers, South Africa. *African Journal of Primary Health Care & Family Medicine*, 7(1): 731(10pp).
- Malan, Z., Mash, R. and Everett-Murphy, K. 2015. Qualitative evaluation of primary care providers experiences of a training programme to offer brief behaviour change counselling on risk factors for non-communicable diseases in South Africa. *BMC Family Practice*, 16: 101(10pp).
- Manohar, S., Pavan, V.S., Taylor, D., Kumar, D., Ponnann, P., Wiesner, L. and Rawat, D.S. 2015. Highly active 4-aminoquinoline-pyrimidine based molecular hybrids as potential next generation antimalarial agents. *The Royal Society of Chemistry*, 5: 28171-28186.
- Marais, S. and Wilkinson, R.J. 2015. Are the present doses of anti Tubercular drugs adequate for severe disease? *EBioMedicine*, 2: 1572-1573.
- Masconi, K., Echouffo-Tcheugui, J.B., Matsha, T.E., Erasmus, R.T. and Kengne, A.P. 2015. Predictive modeling for incident and prevalent diabetes risk evaluation. *Expert Review of Endocrinology and Metabolism*, 10(3): 277-284.
- Masconi, K., Matsha, T.E., Echouffo-Tcheugui, J.B., Erasmus, R.T. and Kengne, A.P. 2015. Reporting and handling of missing data in predictive research for prevalent undiagnosed type 2 diabetes mellitus: A systematic review. *EPMA Journal*, 6(7): 1-11.
- Masconi, K., Matsha, T.E., Erasmus, R.T. and Kengne, A.P. 2015. Effects of different missing data imputation techniques on the performance of undiagnosed diabetes risk prediction models in a mixed-ancestry population of South Africa. *PLoS One*, 10(9): e0139210(9pp).

- Masconi, K., Matsha, T.E., Erasmus, R.T. and Kengne, A.P. 2015. Independent external validation and comparison of prevalent diabetes risk prediction models in a mixed-ancestry population of South Africa. *Diabetology & Metabolic Syndrome*, 7(1): 42(10pp).
- Mash, R., Kroukamp, R., Gaziano, T. and Levitt, N. 2015. Cost-effectiveness of a diabetes group education program delivered by health promoters with a guiding style in underserved communities in Cape Town, South Africa. *Patient Education and Counseling*, 98: 622-626.
- Matsha, T.E., Kengne, A.P., Masconi, K., Yako, Y.Y. and Erasmus, R.T. 2015. APOL1 genetic variants, chronic kidney diseases and hypertension in mixed ancestry South Africans. *BMC Genetics*, 16: 69(9pp).
- Matthews, K., Deffur, A., Ntsekhe, M., Syed, F., Russell, J.B.W., Tibazarwa, K., Wolske, J., Brink, J.G., Mayosi, B.M., Wilkinson, R.J. and Wilkinson, K. 2015. A compartmentalized profibrotic immune response characterizes pericardial tuberculosis, irrespective of HIV-1 infection. *American Journal of Respiratory and Critical Care Medicine*, 192(12): 1518-1520.
- Mayosi, B.M. 2015. Pericarditis-associated atrial fibrillation. *BMJ Open*, 101(18): 1439-1440.
- Mayosi, B.M. 2015. The first black doctors and their influence in South Africa. *SAMJ South African Medical Journal*, 105(8): 635-636.
- Mayosi, B.M. 2015. Towards host-directed therapies for tuberculosis. *Nature Reviews Drug Discovery*, 14(8): 511-512.
- Mayosi, B.M., Kengne, A.P. and Matzopoulos, R. 2015. Duplicate Global, regional, and national comparative risk assessment of 79 behavioural, environmental and occupational, and metabolic risks or clusters of risks in 188 countries, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *Lancet*, 386: 2287-2323.
- Mayosi, B.M., Stein, D.J., Kengne, A.P. and Sliwa, K. 2015. Global, regional, and national incidence, prevalence, and years lived with disability for 301 acute and chronic diseases and injuries in 188 countries, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *Lancet*, 386(9995): 743-800.
- Mbanya, V.N., Echouffo-Tcheugui, J.B., Akhtar, H., Mbanya, J.C. and Kengne, A.P. 2015. Obesity phenotypes in urban and rural Cameroonians: a cross-sectional study. *Diabetology & Metabolic Syndrome*, 7: 21(8pp).
- Mbanya, V.N., Hussain, A. and Kengne, A.P. 2015. Application and applicability of non-invasive risk models for predicting undiagnosed prevalent diabetes in Africa: a systematic literature search. *Primary Care Diabetes*, 9: 317-329.
- Mbanya, V.N., Kengne, A.P., Mbanya, J.C. and Akhtar, H. 2015. Body mass index, waist circumference, hip circumference, waist-hip-ratio and waist-height-ratio: which is the better discriminator of prevalent screen-detected diabetes in a Cameroonian population? *Diabetes Research and Clinical Practice*, 108: 23-30.
- Mbuli, L., Mapiye, D. and Okpechi, I.G. 2015. Lupus nephritis is associated with poor pregnancy outcomes in pregnant SLE patients in Cape Town: A retrospective analysis. *Pan African Medical Journal*, 22: 365(10pp).
- McIlleron, H., Abdel-Rahman, S., Dave, J.A., Blockman, M. and Owens, A. 2015. Special populations and pharmacogenetic issues in tuberculosis drug development and clinical research. *Journal of Infectious Diseases*, 211(Suppl 3): S115-S125.
- Meintjes, G., Black, J., Conradie, F., Dlamini, S.K., Maartens, G., Manzini, T., Mathe, M., Moorhouse, M., Moosa, Y., Nash, J., Orrell, C., Venter, W.D.F. and Wilson, D. 2015. Southern African HIV Clinicians Society adult antiretroviral therapy guidelines: update on when to initiate antiretroviral therapy. *Southern African Journal of HIV Medicine*, 16(1): 428(4pp).
- Meintjes, G., Dunn, L., Coetsee, M., Hislop, M., Leisegang, R., Regensberg, L. and Maartens, G. 2015. Third-line antiretroviral therapy in Africa: effectiveness in a Southern African retrospective cohort study. *AIDS Research and Therapy*, 12: 39(7pp).
- Meintjes, G., Kerkhoff, A., Burton, R., Schutz, C., Boulle, A.M., Van Wyk, G., Blumental, L., Nicol, M.P. and Lawn, S.D. 2015. HIV-related medical admissions to a South African district hospital remain frequent despite effective antiretroviral therapy scale-up. *Medicine*, 94(50): e2269(10pp).
- Melariri, P., Kalombo, L., Nkuna, P., Dube, A., Hayeshi, R., Ogutu, B., Gibhard, L., De Kock, C., Smith, P., Wiesner, L. and Swai, H. 2015. Oral lipid-based nanoformulation of tafenoquine enhanced bioavailability and blood stage antimalarial efficacy and led to a reduction in human red blood cell loss in mice. *International Journal of Nanomedicine*, 10: 1493-1503.
- Meltzer, E.O., Chervinsky, P., Busse, W., Ohta, K., Bardin, P., Bredenbroker, D. and Bateman, E.D. 2015. Roflumilast for asthma: efficacy findings in placebo-controlled studies. *Pulmonary Pharmacology & Therapeutics*, 35: S20-S27.
- Mendelson, M. 2015. Animal-associated exposure to rabies virus among travelers, 1997-2012. *Emerging Infectious Diseases*, 21(4): 569-577.

- Mendelson, M. 2015. Role of antibiotic stewardship in extending the age of modern medicine. *SAMJ South African Medical Journal*, 105(5): 414-418.
- Mercier, S., Kury, S., Salort-Campana, E., Magot, A., Agbim, U., Besnard, T., Bodak, N., Bou-Hanna, C., Breheret, F., Brunelle, P., Cailon, F., Chabrol, B., Cormier-Daire, V., David, A., Eymard, B., Faivre, L., Khumalo, N., Mayosi, B.M., Barbarot, S. and Bezieau, S. 2015. Expanding the clinical spectrum of hereditary fibrosing poikiloderma with tendon contractures, myopathy and pulmonary fibrosis due to FAM111B mutations. *Orphanet Journal of Rare Diseases*, 10: 135(16pp).
- Mfutso-Bengo, J., Manda-Taylor, L. and Masiye, F. 2015. Motivational factors for participation in biomedical research: evidence from a qualitative study of biomedical research participation in Blantyre District, Malawi. *Journal of Empirical Research on Human Research Ethics*, 10(1): 59-64.
- Mhandire, D., Lacerda, M., Castel, S.A., Mhandire, K., Zhou, D., Swart, M., Shamu, T., Smith, P., Musingwini, T., Wiesner, L., Stray-Pedersen, S.P.B. and Dandara, C. 2015. Effects of CYP2B6 and CYP1A2 genetic variation on Nevirapine plasma concentration and pharmacodynamics as measured by CD4 cell count in Zimbabwean HIV-infected patients. *Omicron-A Journal of Integrative Biology*, 19(9): 553-562.
- Middelkoop, K., Mathema, B., Myer, L., Shashkina, E., Whitelaw, A., Kaplan, G., Kreiswirth, B., Wood, R. and Bekker, L. 2015. Transmission of tuberculosis in a South African community with a high prevalence of HIV infection. *Journal of Infectious Diseases*, 211: 53-61.
- Miyazaki, T., Panoulas, V., Sato, K., Kawamoto, H., Naganuma, T., Latib, A. and Colombo, A. 2015. In-scaffold restenosis in a previous left main bifurcation lesion treated with bioresorbable scaffold v-stenting. *JACC-Cardiovascular Interventions*, 8(1): e7-e10.
- Mkoko, P. 2015. For external use only. *SAMJ South African Medical Journal*, 105(2): 155.
- Mkoko, P., Mokhele, N., Ntsekhe, M. and Ntusi, N. 2015. Digoxin therapy in the modern management of cardiovascular disease: An unusual but serious complication. *SAMJ South African Medical Journal*, 105(2): 154.
- Mnguni, A.Y., Engel, M.E., Borkum, M. and Mayosi, B.M. 2015. The effects of angiotensin converting enzyme inhibitors (ACE-I) on Human N-acetyl-Seryl-Spartyl-Lysyl-Proline (AC-SDKP) levels: a systematic review and meta-analysis. *PLoS One*, 10(12): e0143338(10pp).
- Mocumbi, A.O., Thienemann, F. and Sliwa, K. 2015. A global perspective on the epidemiology of pulmonary hypertension. *Canadian Journal of Cardiology*, 31: 375-381.
- Modongo, C., Pasipanodya, J., Zetola, N., Williams, S.M., Sirugo, G. and Gumbo, T. 2015. Amikacin concentrations predictive of ototoxicity in multidrug-resistant tuberculosis patients. *Antimicrobial Agents and Chemotherapy*, 59: 6337-6343.
- Moens, K., Siegert, R., Taylor, S., Namisango, E., Selman, L., Harding, R., Godfrey, A., Natalya, D., Downing, J., Gwyther, E., Keletso, M., Moll, T., Mashao, T., Mpanga Sebuyira, L., Ikin, B. and Higginson, I. 2015. Symptom clusters in people living with HIV attending five palliative care facilities in two sub-Saharan African countries: a hierarchical cluster analysis. *PLoS One*, 10(5): e0126554(12pp).
- Mogueo, A., Echouffo-Tcheugui, J.B., Matsha, T.E., Erasmus, R.T. and Kengne, A.P. 2015. Validation of two prediction models of undiagnosed chronic kidney disease in mixed-ancestry South Africans. *BMC Nephrology*, 16: 94(14pp).
- Molefi, M., Chofle, A.A., Molloy, S.F., Kulluvya, S., Changalucha, J., Cainelli, F., Leeme, T., Lekwape, N., Goldberg, D.W., Haverkamp, M., Bisson, G.P., Perfect, J.R., Letang, E., Fenner, L., Meintjies, G., Burton, R., Makadzange, T., Ndhlovu, C.E., Hope, W., Harrison, T.S. and Jarvis, J.N. 2015. AMBITION-cm: Intermittent high dose AmBisome on a high dose fluconazole backbone for cryptococcal meningitis induction therapy in sub-Saharan Africa: study protocol for a randomized controlled trial. *Trials*, 16(276): 1-10.
- Mombaur, B., Lesosky, M., Liebenberg, L., Vreede, H.W. and Heckmann, J.M. 2015. Incidence of acetylcholine receptor-antibody-positive myasthenia gravis in South Africa. *Muscle & Nerve*, 51: 533-537.
- Moodie, Z., Metch, B., Bekker, L., Churchyard, G.J., Nchabeleng, M., Mlisana, K., Laher, F., Roux, S.M., Mngadi, K., Innes, C., Mathebula, M., Allen, M., Bentley, C., Gilbert, P.B., Robertson, M., Kublin, J., Corey, L. and Gray, G. 2015. Continued follow-up of Phambili phase 2b randomized HIV-1 vaccine trial participants supports increased HIV-1 acquisition among vaccinated men. *PLoS One*, 10(9): e0137666(14pp).
- Moorhouse, M., Bekker, L., Black, V., Conradie, F., Harley, B., Howell, P., Maartens, G., Papavarnavas, T., Rebe, K., Sorour, G., Venter, W.D. and Wallis, C. 2015. Guideline on the management of occupational and non-occupational exposure to the human immunodeficiency virus and recommendations for post-exposure prophylaxis: 2015 Update. *South African Journal of HIV Medicine*, 16(1): 399(14pp).
- Moosajee, F. and Kalla, A.A. 2015. Approach to lower back pain. *SAMJ South African Medical Journal*, 105(12): 1077(3pp).

- Moultrie, H., McIlleron, H., Sawry, S., Kellermann, T.A., Wiesner, L., Kindra, G., Gous, H. and Van Rie, A. 2015. Pharmacokinetics and safety of rifabutin in young HIV-infected children receiving rifabutin and lopinavir/ritonavir. *Journal of Antimicrobial Chemotherapy*, 70: 543-549.
- Mouton, J.P., Mehta, U.C., Parrish, A.G., Wilson, D., Stewart, A., Njuguna, C., Kramer, N., Maartens, G., Blockman, M. and Cohen, K. 2015. Mortality from adverse drug reactions in adult medical inpatients at four hospitals in South Africa: a cross-sectional survey. *British Journal of Clinical Pharmacology*, 80(4): 818-826.
- Mthiyane, T., Rustomjee, r., Pym, A., Connolly, C., Onyebujoh, P.C., Theron, G. and Dheda, K. 2015. Impact of tuberculosis treatment and antiretroviral therapy on serial RD-1-specific quantitative T-cell readouts (QuantIFERON-TB Gold In-Tube), and relationship to treatment-related outcomes and bacterial burden. *International Journal of Infectious Diseases*, 36: 46-53.
- Muller, E., Barday, Z., Mendelson, M. and Kahn, D. 2015. HIV-positive-to-HIV-positive kidney transplantation-results at 3 to 5 years. *New England Journal of Medicine*, 372: 613-620.
- Mulligan, K., Glidden, D.V., Anderson, P.L., Liu, A., McMahan, V., Gonzales, P., Ramirez-Cardich, M.E., Namwongprom, S., Chodacki, P., de Mendonca, L.M.C., Wang, F., Lama, J.R., Chariyalertsak, S., Guanira, J.V., Buchbinder, S.P., Bekker, L., Schechter, M., Veloso, V.G. and Grant, R. 2015. Effects of emtricitabine/tenofovir on bone mineral density in HIV-negative persons in a randomized, double-blind, placebo-controlled trial. *Clinical Infectious Diseases*, 61(4): 572-580.
- Muloiwa, R., Kagina, B., Engel, M.E. and Hussey, G.D. 2015. The burden of pertussis in low- and middle-income countries since the inception of the Expanded Programme on Immunization (EPI) in 1974: a systematic review protocol. *Systematic Reviews*, 4: 62(7pp).
- Mungwira, R.G., Nyangulu, W., Misiri, J., Iphani, S., Ng'Ong'Ola, R., Chirambo, C.M., Masiye, F. and Mfutso-Bengo, J. 2015. Is it ethical to prevent secondary use of stored biological samples and data derived from consenting research participants? The case of Malawi. *BMC Medical Ethics*, 16: 83(7pp).
- Murphy, K., Chuma, T., Mathews, C., Steyn, K. and Levitt, N. 2015. A qualitative study of the experiences of care and motivation for effective self-management among diabetic and hypertensive patients attending public sector primary health care services in South Africa. *BMC Health Services Research*, 15: 303(9pp).
- Myat, A., Arri, S., Bhatt, D.L., Gersh, B., Redwood, S. and Marber, M.S. 2015. Design and rationale for the randomised, double-blinded, placebo-controlled Liraglutide to improve coronary haemodynamics during exercise stress (LIONESS) crossover study. *Cardiovascular Diabetology*, 14: 27(12pp).
- Myer, L., Phillips, T., Manuelli, V., McIntyre, J.A., Bekker, L. and Abrams, E.J. 2015. Evolution of antiretroviral therapy services for HIV-infected pregnant women in Cape Town, South Africa. *Jaids-Journal of Acquired Immune Deficiency Syndromes*, 69: e57-e65.
- Myers, L., Phillips, T., Hsiao, N.M., Zerbe, A., Petro, G.A., Bekker, L., McIntyre, J.A. and Abrams, E. 2015. Plasma viraemia in HIV-positive pregnant women entering antenatal care in South Africa. *Journal of the International AIDS Society*, 18: 20045(5pp).
- Mzinza, D.T., Sloan, D., Jambo, K.C., Shani, D., Kamdolozi, M., Wilkinson, K., Wilkinson, R.J., Davies, G.R., Heyderman, R.S. and Mwandumba, H.C. 2015. Kinetics of Mycobacterium tuberculosis-specific IFN-g responses and sputum bacillary clearance in HIV-infected adults during treatment of pulmonary tuberculosis. *Tuberculosis*, 95: 463-469.
- Nachman, S., Ahmed, A., Amanullah, F., Becerra, M., Botgros, R., Brigden, G., Browning, R., Gardiner, E., Hafner, R., Hesselting, A.C., How, C., Jean-Philippe, P., Lessem, E., Makhene, M., Mbelle, N., Marais, B.J. and McIlleron, H. 2015. Towards early inclusion of children in tuberculosis drugs trials: a consensus statement. *Lancet Infectious Diseases*, 15: 711-720.
- Namale, P., Abdullahi-Hussein, L., Fine, S., Kamkuemah, M.N., Wilkinson, R.J. and Meintjies, G. 2015. Paradoxical TB-IRIS in HIV-infected adults: a systematic review and meta-analysis. *Future Microbiology*, 10(6): 1077-1099.
- Nansseu, J.R. and Noubiap, J.J. 2015. Aspirin for primary prevention of cardiovascular disease. *Thrombosis Journal*, 13(38): 1-10.
- Nansseu, J.R.N., Fokom-Domgue, J., Noubiap, J.J., Balti, E.V., Sobngwi, E. and Kengne, A.P. 2015. Fructosamine measurement for diabetes mellitus diagnosis and monitoring: a systematic review and meta-analysis protocol. *BMJ Open*, 5: e007689(4pp).
- Nashidengo, P.M., Gool, F. and Thomson, S.R. 2015. Asymptomatic cholelithiasis in diabetes mellitus to operate or not to operate that is the question. *The South African Gastroenterology Review*, 13(2): 13-16.
- Ndemenge, L., Takah, N.F., Noubiap, J.J., Tindong, M., Ngwasiri, C., Jingi, A.M., Kengne, A.P. and Dzudie, A. 2015. Awareness and low uptake of post exposure prophylaxis for HIV among clinical medical students in a high endemicity setting. *BMC Public Health*, 15: 1104(9pp).

- Ndiaye, B.P., Thienemann, F., Ota, M., Landry, B., Camara, M., Diye, S., Dieye, T.N., Esmail, H., Goliath, R.T., McShane, H., Huygen, K., January, V., Ndiaye, I., Oni, T., Raine, M., Romano, M., Satti, I., Sutton, S., Thiam, A., Wilkinson, K., Mboup, S. and Wilkinson, R.J. 2015. Safety, immunogenicity, and efficacy of the candidate tuberculosis vaccine MVA85A in healthy adults infected with HIV-1: a randomised, placebo-controlled, phase 2 trial. *Lancet Respiratory Medicine*, 3: 190-200.
- Ndjeka, N., Conradie, F., Schnippel, K., Hughes, J., Bantubani, N., Ferreira, H., Maartens, G., Mametja, D., Meintjies, G., Padanilam, X., Variava, E., Pym, A. and Pillay, Y. 2015. Treatment of drug-resistant tuberculosis with bedaquiline in a high HIV prevalence setting: an interim cohort analysis. *International Journal of Tuberculosis and Lung Disease*, 19(8): 979-985.
- Ngahane, B.H.M., Nganda, M.M., Dzudie, A., Luma, H., Kamdem, F., Ngote, H.R., Monkam, Y. and Kuaban, C. 2015. Prevalence and determinants of excessive daytime sleepiness in hypertensive patients: a cross-sectional study in Douala, Cameroon. *BMJ Open*, 5: e008339(5pp).
- Nglazi, M., Bekker, L., Wood, R. and Kaplan, R. 2015. The impact of HIV status and antiretroviral treatment on TB treatment outcomes of new tuberculosis patients attending co-located TB and ART services in South Africa: a retrospective cohort study. *BMC Infectious Diseases*, 15: 536(8pp).
- Nguyen, K., Peer, N., Kengne, A.P. and Mills, E.J. 2015. Burden, determinants, and pharmacological management of hypertension in HIV-positive patients and populations: a systematic narrative review. *AIDS Reviews*, 17(2): 83-95.
- Ngwa, E.N., Kengne, A.P., Tiedeu-Atogho, B., Mofomato, E.-P. and Sobngwi, E. 2015. Persistent organic pollutants as risk factors for type 2 diabetes. *Diabetology & Metabolic Syndrome*, 7: 41(15pp)
- Ngwa, E.N., Sobngwi, E., Atogho-Tiedeu, B., Noubiap, J.J., Donfack, O.S., Guewo-Fokeng, M., Mofomato, E.-P., Fosso, P.P., Djahmeni, E., Djokam-Dadjeu, R., Evehe, M.B., Aminkeng, F., Mbacham, W. and Mbanya, J.C. 2015. Association between the rs12255372 variant of the TCF7L2 gene and obesity in a Cameroonian population Obesity. *BMC Research Notes*, 8: 717(6pp).
- Njuguna, C., Cohen, K. and Maartens, G. 2015. Acute interstitial nephritis caused by lopinavir/ritonavir in a surgeon receiving antiretroviral postexposure prophylaxis. *AIDS*, 29: 503-506
- Nkoike, C., Lekoubou, A., Balti, E.V. and Kengne, A.P. 2015. Stroke mortality and its determinants in a resource-limited setting: a prospective cohort study in Yaounde, Cameroon. *Journal of the Neurological Sciences*, 358: 113-117.
- Noubiap, J.J., Essouma, M. and Bigna, J.J.R. 2015. Targeting household air pollution for curbing the cardiovascular disease burden: a health priority in sub-Saharan Africa. *Journal of Clinical Hypertension*, 17(10): 825-829.
- Noubiap, J.J., Naidoo, J. and Kengne, A.P. 2015. Diabetic nephropathy in Africa: A systematic review. *World Journal of Diabetes*, 6(5): 759-773.
- Noubiap, J.J., Nansseu, J.R.N., Bigna, J.J., Jingi, A.M. and Kengne, A.P. 2015. Prevalence and incidence of dyslipidaemia among adults in Africa: a systematic review and meta-analysis protocol. *BMJ Open*, 5: e007404(5pp).
- Noubiap, J.J., Nansseu, J.R.N., Ndoula, S.T., Bigna, J.J., Jingi, A.M. and Fokom-Domgue, J. 2015. Prevalence, infectivity and correlates of hepatitis B virus infection among pregnant women in a rural district of the far North Region of Cameroon. *BMC Public Health*, 15: 454(7pp).
- Noubiap, J.J., Nasseu, J.R., Ndoula, S.T., Wang, B., Jingi, A.M., Bigna, J.J.R., Aminde, L., Youmbi, R.A. and Fokom-Domgue, J. 2015. Prevalence and correlates of HIV-risky sexual behaviors among students attending the medical and social welfare center of the University of Maroua, Cameroon. *BMC Research Notes*, 8: 635(11pp).
- Nouya, A.Y., Nansseu, J.R.N., Moor, V.J.A., Pieme, C.A., Noubiap, J.J.N., Tchoula, C.M., Mokette, B.M., Takam, R.D.M., Tankeu, F., Ngogang, J.Y. and Kengne, A.P. 2015. Determinants of fructosamine levels in a multi-ethnic sub-Saharan African population. *Diabetes Research and Clinical Practice*, 107: 123-129.
- Ntsekhe, M., Böhm, M., Mahfoud, F., Ukena, C., Hoppe, U.C., Narkiewicz, K., Negoita, M., Ruilope, R., Schlaich, M.P., Schmieder, R., Whitbourn, R., Williams, B., Zeymer, U.C., Zirik, A. and Mancina, G. 2015. First report of the Global Symplicity registry on the effect of renal artery denervation in patients with uncontrolled hypertension. *Hypertension*, 65: 766-774.
- Ntsekhe, M., Delahaye, F., Chu, V.H., Altclas, J., Barsic, B., Delahaye, A., Freiburger, T., Gordon, D.L., Hannan, M.M., Hoen, B., Kanj, S.S., Lejko-Zupanc, T., Mestres, C.A., Pachirat, O., Pappas, P.A., Lamas, C., Selton-Suty, C., Tan, R., Tattevin, P., Wang, A., Commerford, P.J., Commerford, A., Deetlefs, E. and Hansa, C. 2015. One-year outcome following biological or mechanical valve replacement for infective endocarditis. *International Journal of Cardiology*, 178: 117-123.
- Ntuli, P. and Makambwa, E. 2015. Kounis syndrome. *SAMJ South African Medical Journal*, 105(10): 878(3pp).

- Ntusi, N., Badri, M., Gumedze, F.N., Sliwa, K. and Mayosi, B.M. 2015. Pregnancy-associated heart failure: a comparison of clinical presentation and outcome between hypertensive heart failure of pregnancy and idiopathic peripartum cardiomyopathy. *PLoS One*, 10(8): e0133466(13pp).
- Ntusi, N., Piechnik, S.K., Francis, J.M., Ferreira, V.M., Matthews, P.M., Robson, M.D., Wordsworth, P.B., Neubauer, S. and Karamitsos, T. 2015. Diffuse myocardial fibrosis and inflammation in rheumatoid arthritis: insights from CMR T1 Mapping. *JACC-Cardiovascular Imaging*, 8(5): 526-536.
- Offerman, K., Deffur, A., Carulei, O., Wilkinson, R.J., Douglass, N. and Williamson, A.-L. 2015. Six host-range restricted poxviruses from three genera induce distinct gene expression profiles in an in vivo mouse model. *BMC Genomics*, 16: 510(20pp).
- Ogah, O., Davison, B.A., Sliwa, K., Mayosi, B.M., Damasceno, A., Sani, M., Mondo, C., Dzudie, A., Ojji, D., Kouam, C.K., Suliman, A., Schreuder, N., Yonga, G., Abdou Ba, S., Maru, F., Alemayehu, B., Edwards, C.R.W. and Cotter, G. 2015. Gender differences in clinical characteristics and outcome of acute heart failure in sub-Saharan Africa: results of the THESUS-HF study. *Clinical Research in Cardiology*, 104: 481-490.
- Ogah, O., Sliwa, K., Akinyemi, J.O., Falase, A.O. and Stewart, S. 2015. Hypertensive heart failure in Nigerian Africans: insights from the Abeokuta heart failure registry. *Journal of Clinical Hypertension*, 17(4): 263-272.
- Ojji, D., Atherton, A., Sliwa, K., Alfa, B., Ngabea, M. and Opie, L.H. 2015. Left ventricular systolic dysfunction in asymptomatic black hypertensive subjects. *American Journal of Hypertension*, 28(7): 924-929.
- Ojji, D.B., Libhaber, E., Atherton, A., Abdullahi, B., Nwankwo, A. and Sliwa, K. 2015. Risk-factor profile and comorbidities in 2398 patients with newly diagnosed hypertension from the Abuja heart study. *Medicine*, 94(39): e1660(9pp).
- Okop, K., Levitt, N. and Puoane, T. 2015. Factors associated with excessive body fat in men and women: cross-sectional data from black South Africans living in a rural community and an urban township. *PLoS One*, 10(10): e0140153(17pp).
- Okpechi, I.G., Gcelu, A. and Ameh, O. 2015. Lupus nephritis: an approach to diagnosis and treatment in South Africa. *SAMJ South African Medical Journal*, 105(12): 1071(4pp).
- Okpechi, I.G., Swanepoel, C.R. and Venter, W.D. 2015. Access to medications and conducting clinical trials in LMICs. *Nature Reviews Nephrology*, 11: 189-194.
- Omar, F., Dave, J.A., King, J.A., Levitt, N. and Pillay, T. 2015. High Molecular Weight (HMW): Total adiponectin ratio is low in HIV-infected women receiving protease inhibitors. *BMC Clinical Pathology*, 14(46): 1-7.
- Ongarora, D., Strydom, N., Wicht, K., Njoroge, M., Wiesner, J., Egan, T.J., Wittlin, S., Jurva, U., Masimirembwa, C.M. and Chibale, K. 2015. Antimalarial benzoheterocyclic 4-aminoquinolines: structure-activity relationship, in vivo evaluation, mechanistic and bioactivation studies. *Bioorganic & Medicinal Chemistry*, 23: 5419-5432.
- Oni, T. and Ehrlich, R.I. 2015. Complicated silicotuberculosis in a South African gold miner: a case report. *American Journal of Industrial Medicine*, 58: 697-701.
- Oni, T., Boulle, A.M., McGrath, N., Wilkinson, R.J., Levitt, N. and Youngblood, E. 2015. Patterns of HIV, TB, and non-communicable disease multi-morbidity in peri-urban South Africa- a cross sectional study. *BMC Infectious Diseases*, 15: 20(8pp).
- Opie, L.H. 2015. A proposal to incorporate trial data into a hybrid American college of cardiology/ American heart association algorithm for the allocation of statin therapy in primary prevention. *JACC: Heart Failure*, 6(12): 1408-1413.
- Opie, L.H. 2015. Digitalis reappraised: still here today, but gone tomorrow? *SAMJ South African Medical Journal*, 105(2): 88-89.
- Opie, L.H. 2015. Heart health: diets and lifestyle. *Transactions of the Royal Society of South Africa*, 70(1): 79-82.
- Opie, L.H. 2015. Melatonin, the new partner to aspirin? *Lancet*, 385(9970): 774.
- Opie, L.H. 2015. Present status of statin therapy. *Trends in Cardiovascular Medicine*, 25: 216-225.
- Opie, L.H. and Lopaschuk, G. 2015. What is good for the circulation also lessens cancer risk. *European Heart Journal*, 36: 1157-1162.
- Orrell, C., Cohen, K., Mauff, K.A.L., Bangsberg, D.R., Maartens, G. and Wood, R. 2015. A randomized controlled trial of real-time electronic adherence monitoring with text message dosing reminders in people starting first-line antiretroviral therapy. *Jacids- Journal of Acquired Immune Deficiency Syndromes*, 70: 495-502.
- Orrell, C., Felizarta, F., Nell, A., Kakuda, T., Lavreys, L., Nijs, S., Tambuyzer, L., Van Solingen-Ristea, R. and Tomaka, F. 2015. Pharmacokinetics of Etravirine Combined with Atazanavir/Ritonavir and a Nucleoside Reverse Transcriptase Inhibitor in Antiretroviral Treatment-Experienced, HIV-1-Infected Patients. *AIDS research and Treatment*, 2015: 938628(11pp).

- Orren, A., Thomas, A., Leisegang, F., Wurzner, R., Owen, E.P. and Potter, P.C. 2015. South African patients with genetic deficiencies of complement components C5 and C6 suffer a marked increase in susceptibility to meningococcal disease. *Current Allergy & Clinical Immunology*, 28(3): 192-194.
- Owen, P., Wurzner, R., Leisegang, F., Rizkallah, P., Whitelaw, A.C., Simpson, J., Thomas, A., Harris, C.L., Giles, J.L., Hellerud, B.C., Mollnes, T.E., Morgan, B.P., Potter, P.C. and Orren, A. 2015. A complement C5 gene mutation, c.754G>A;p.A252T, is common in the Western Cape, South Africa and found to be homozygous in seven percent of Black African meningococcal disease cases. *Molecular Immunology*, 64: 170-176.
- Pandie, S., Mehta, S.R., Cantor, W.J., Cheema, A.N., Gao, P., Madan, M., Niemela, N., Rao, S.V., Schwalm, J.D., Valentin, V., Velianou, J.L. and Jolly, S.S. 2015. Radial versus femoral access for coronary angiography/intervention in women with acute coronary syndromes. Insights from the RIVAL trial (Radial vs femoral access for coronary intervention). *JACC-Cardiovascular Interventions*, 8(4): 505-512.
- Pasipanodya, J., Hall 2<sup>nd</sup>, R.G. and Gumbo, T. 2015. In silico-derived bedside formula for individualized micafungin dosing for obese patients in the age of deterministic chaos. *Clinical Pharmacology & Therapeutics*, 97(3): 292-297.
- Pasipanodya, J.G., Mubanga, M., Ntsekhe, M., Pandie, S., Magazi, B.T., Gumede, F.N., Myer, L., Gumbo, T. and Mayosi, B.M. 2015. Tuberculous Pericarditis is multibacillary and bacterial burden drives high mortality. *EBioMedicine*, 2: 1634-1639.
- Pasipanodya, J.G., Nuermberger, E., Romero, K., Hanna, D. and Gumbo, T. 2015. Systematic analysis of hollow fiber model of Tuberculosis experiments. *Clinical Infectious Diseases*, 61(Suppl 1): S10-S17.
- Peer, N. 2015. The converging burdens of infectious and non-communicable diseases in rural-to-urban migrant Sub-Saharan African populations: a focus on HIV/AIDS, tuberculosis and cardio-metabolic diseases. *Tropical Diseases, Travel Medicine and Vaccines*, 1(6): 1-8.
- Peer, N., Lombard, C., Steyn, K. and Levitt, N. 2015. High prevalence of metabolic syndrome in the Black population of Cape Town: the cardiovascular risk in black South Africans (CRIBSA) study. *European Journal of Preventive Cardiology*, 22(8): 1036-1042.
- Pefura-Yone, E.W., Fodjeu, G., Kengne, A.P., Roche, N. and Kuaban, C. 2015. Prevalence and determinants of chronic obstructive pulmonary disease in HIV infected patients in an African country with low level of tobacco smoking. *Respiratory Medicine*, 109: 247-254.
- Pefura-Yone, E.W., Kengne, A.P., Balkissou, A.D., Boulelys-Nana, J.R., Efe-de-Melingui, N.R., Ndjeutcheu-Moualeu, P.I., Mbele-Onana, C.L., Kenmegne-Noumsi, E.C., Kolontchang-Yomi, B.L., Theubo-Kamgang, B.J., Ebouki, E.R., Djuikam-Kamga, C.K., Magne-Fotso, C.G., Amougou, F., Mboumtou, L., Ngo-Yonga, M., Petchou-Talla, E.L., Afane-Ze, E., Kuaban, C. and Research Group for Respiratory Disease in Cameroon, R.G.R.D.C. 2015. Prevalence of asthma and allergic rhinitis among adults in Yaounde, Cameroon. *PLoS One*, 10(4): e0123099(15pp).
- Pefura-Yone, E.W., Kuaban, C., Assamba-Mpom, S.A., Moifo, B. and Kengne, A.P. 2015. Derivation, validation and comparative performance of a simplified chest X-ray score for assessing the severity and outcome of pulmonary tuberculosis. *Clinical Respiratory Journal*, 9: 157-164.
- Pefura-Yone, E.W., Mbele-Onana, C.L., Balkissou, A.D., Kenmegne-Noumsi, E.C., Boulelys-Nana, J.R., Kolontchang-Yomi, B.L., Theubo-Kamgang, B.J., Ndjeutcheu-Moualeu, P.I., Ebouki, E.R. and Kengne, A.P. 2015. Perennial aeroallergens sensitisation and risk of asthma in African children and adolescents: a case-control study. *Journal of Asthma*, 52(6): 571-575.
- Pepper, D.J., Schomaker, M., Wilkinson, R.J., de Azevedo, V. and Maartens, G. 2015. Independent predictors of tuberculosis mortality in a high HIV prevalence setting: a retrospective cohort study. *AIDS Research and Therapy*, 12: 35(9pp).
- Peter, J. 2015. Common variable immunodeficiency in South Africa. *Current Allergy & Clinical Immunology*, 28(3): 216-222.
- Peter, J., Dlamini, S.K. and Lehloeny, R.J. 2015. A South African multidisciplinary drug hypersensitivity clinic. *Current Allergy & Clinical Immunology*, 28(4): 270-274.
- Peter, J., Mouton, J.P. and Lehloeny, R. 2015. Immune-mediated adverse drug reactions in South Africa. *Current Allergy & Clinical Immunology*, 28(3): 186-190.
- Peter, J., Theron, G., Chanda, D., Clowes, P., Rachow, A., Lesosky, M., Hoelscher, M., Mwaba, P., Pym, A. and Dheda, K. 2015. Test characteristics and potential impact of the urine LAM lateral flow assay in HIV-infected outpatients under investigation for TB and able to self-expectorate sputum for diagnostic testing. *BMC Infectious Diseases*, 15: 262(12pp).
- Philipsen, R.H.H.M., Sanchez, C.I., Maduskar, P., Melendez, J., Peters-Bax, L., Peter, J., Dawson, R., Theron, G., Dheda, K. and van Ginneken, B. 2015. Automated chest-radiography as a triage for Xpert testing in resource-constrained settings: a



- prospective study of diagnostic accuracy and costs. *Scientific Reports*, 5: 12215(8pp).
- Pietersen, E., Peter, J., Streicher, E.M., Sirgel, F., Rockwood, N., Mastrapa, B., Riele, J., Davids, M., van Helden, P., Warren, R.M. and Dheda, K. 2015. High frequency of resistance, lack of clinical benefit, and poor outcomes in capreomycin treated South African patients with extensively drug-resistant tuberculosis. *PLoS One*, 10(4): e0123655(13pp).
- Pisano, F., Altomare, C., Cervio, E., Barile, L., Rocchetti, M., Ciuffreda, M.C., Malpasso, G., Copes, F., Mura, M., Danieli, P., Viarengo, G., Zaza, A. and Gneccchi, M. 2015. Combination of miRNA499 and miRNA133 exerts a synergic effect on cardiac differentiation. *Stem Cells*, 33: 1187-1199.
- Poncet, A., Gencer, B., Blondon, M., Gex-Fabry, M., Combesure, C., Shah, D., Schwartz, P.J., Besson, M. and Girardin, F.R. 2015. Electrocardiographic screening for prolonged QT interval to reduce sudden cardiac death in psychiatric patients: a cost-effectiveness analysis. *PLoS One*, 10(6): e0127213 (14pp).
- Porter, M., Davies, M., Mapani, M., Rabie, H., Phiri, S., Nuttall, J.J., Technau, K.-G., Fairlie, L., Stinson, K., Wood, R., Wellington, M., Haas, A.D., Giddy, J., Tanser, F. and Eley, B.S. 2015. Outcomes of infants starting antiretroviral therapy in Southern Africa, 2004-2012. *J AIDS-Journal of Acquired Immune Deficiency Syndromes*, 69(5): 593-601.
- Potter, P.C., Baker, S., Fenemore, B. and Nurse, B. 2015. Clinical and cytokine responses to house dust mite sublingual immunotherapy. *Annals of Allergy Asthma & Immunology*, 114: 327-334.
- Potter, P.C., Ehrlich, R.I., van Rooyen, C. and Fenemore, B. 2015. Occupational sensitization to African penguin serum and mucus proteins. *Annals of Allergy Asthma & Immunology*, 114: 345-347.
- Pretorius, S., Stewart, S., Carrington, M., Lamont, K., Sliwa, K. and Crowther, N.J. 2015. Is there an association between sleeping patterns and other environmental factors with obesity and blood pressure in an urban African population? *PLoS One*, 10(10): e0131081(14pp).
- Priso, E.B., Njamen, T., Tchente, C., Kana, A.J., Landry, T., Tchawa, U.F.N., Hentchoya, R., Beyiha, G., Halle, M.P., Aminde, L. and Dzudie, A. 2015. Trend in admissions, clinical features and outcome of preeclampsia and eclampsia as seen from the intensive care unit of the Douala General Hospital, Cameroon. *Pan African Medical Journal*, 21: 103(11pp).
- Prudence, I., Mendelson, M. and Dlamini, S.K. 2015. Fever, sore throat and myalgia. *SAMJ South African Medical Journal*, 105(2): 157-158.
- Pule, G.D., Ngo Bitoungui, V.J., Chemegni, B.C., Kengne, A.P., Antonarakis, S. and Wonkam, A. 2015. Association between variants at BCL11A erythroid-specific enhancer and fetal hemoglobin levels among Sickle Cell disease patients in Cameroon: implications for future therapeutic interventions. *Omics-A Journal of Integrative Biology*, 19(10): 627-631.
- Raal, F.J. and Blom, D. 2015. Anacetrapib in familial hypercholesterolaemia: pros and cons. *Comment. Lancet*, 385: 2124-2126.
- Raal, F.J., Honarpour, N., Blom, D., Hovingh, G.K., Xu, F., Scott, R., Wasserman, S.M. and Stein, E.A. 2015. Inhibition of PCSK9 with evolocumab in homozygous familial hypercholesterolaemia (TESLA Part B): a randomised, double-blind, placebo-controlled trial. *Lancet*, 385: 341-350.
- Rangaka, M.X., Cavalcante, S.C., Marais, B.J., Thim, S., Martinson, N.A., Swaminathan, S. and Chaisson, R. 2015. Controlling the seedbeds of tuberculosis: diagnosis and treatment of tuberculosis infection. *Lancet*, 386: 2344-2353.
- Rapeport, N., Schamroth, C. and Blom, D. 2015. Gender and ethnic differences in the control of hyperlipidaemia and other vascular risk factors: insights from the CEntralised Pan-South African survey on tHE Under-treatment of hypercholesterolaemia (CEPHEUS SA) study. *The South African Journal of Diabetes & Vascular Disease*, 12: 30-34.
- Rautenbach, C., Lindegger, G., Slack, C., Wallace, M. and Newman, P. 2015. I'm positive, but I'm negative: competing voices in informed consent and implications for HIV vaccine trials. *Journal of Empirical Research on Human Research Ethics*, 10(2): 151-156.
- Ravinetto, R., De Nys, K., Boelaert, M., Diro, E., Meintjes, G., Adoke, Y., Tagbor, H. and Casteels, M. 2015. Sponsorship in non-commercial clinical trials: definitions, challenges and the role of Good Clinical Practices guidelines. *BMC International Health and Human Rights*, 15: 34(7pp).
- Rayner, B.L. and Ramesar, R.S. 2015. The importance of G protein-coupled receptor kinase 4 (GRK4) in pathogenesis of salt sensitivity, salt sensitive hypertension and response to antihypertensive treatment. *International Journal of Molecular Sciences*, 16: 5741-5749.
- Rebe, K.B., Lewis, D.A., Myer, L., de Swardt, G., Struthers, H., Kamkuemah, M. and McIntyre, J.A. 2015. A cross sectional analysis of gonococcal and chlamydial infections among men-who-have-sex-with-men in Cape Town, South Africa. *PLoS One*, 10(9): e0138315(12pp).

- Reddel, H.K., Bateman, E.D., Becker, A., Boulet, L.-P., Cruz, A.A., Drazen, J.M., Haahtela, T., Hurd, S.S., Inoue, H., de Jongste, J.C., Lemanske Jr, R.F., Levy, M.L., O'Byrne, P.M., Paggiaro, P., Pedersen, S., Pizzichini, E., Soto-Quiroz, M., Szeffler, S.J., Wong, G. and FitzGerald, J.M. 2015. A summary of the new GINA strategy: a roadmap to asthma control. *European Respiratory Journal*, 46: 579-582.
- Rider, O.J., Lewis, A.J.M., Lewandowski, A.J., Ntusi, N., Nethononda, R., Petersen, S.E., Francis, J.M., Pitcher, A.J., Banerjee, R., Leeson, P. and Neubauer, S. 2015. Obese subjects show sex-specific differences in right ventricular hypertrophy. *Circulation-Cardiovascular Imaging*, 8: e002454(9pp).
- Ritchie, P.L.M., Schull, M.J., Martiniuk, A.L., Barnsley, J., Arenovich, T., van Lettow, M., Chan, A.K., Mills, E., Makwakwa, A. and Zwarenstein, M. 2015. A knowledge translation intervention to improve tuberculosis care and outcomes in Malawi: a pragmatic cluster randomized controlled trial. *Implementation Science*, 10: 38(10pp).
- Robins, A.H. and Holland, M. 2015. The art of medicine: The enigmatic illness and death of Constance, wife of Oscar Wilde. *Lancet*, 385: 21-22.
- Rockwood, N., Abdullahi-Hussein, L., Wilkinson, R.J. and Meintjes, G. 2015. Risk factors for acquired rifamycin and isoniazid resistance: a systematic review and meta-analysis. *PLoS One*, 10(9): e0139017(23pp).
- Roos-Hesselink, J.W., Cornette, J., Sliwa, K., Pieper, P., Veldtman, G.R. and Johnson, M.R. 2015. Contraception and cardiovascular disease. *European Heart Journal*, 36: 1728-1734.
- Ross, I.L. and Louw, G.J. 2015. Embryological and molecular development of the adrenal glands. *Clinical Anatomy*, 28: 235-242.
- Rush, C. and Ntsekhe, M. 2015. Case report a lady with a broken heart: Apical ballooning syndrome. *SAMJ South African Medical Journal*, 105(5): 422.
- Sabatine, M., Giugliano, R.P., Wiviott, S., Raal, F., Blom, D., Robinson, J., Ballantyne, C.M., Somaratne, R., Legg, J., Wasserman, S.M., Scott, R., Koren, M.J. and Stein, E.A. 2015. Efficacy and safety of evolocumab in reducing lipids and cardiovascular events. *New England Journal of Medicine*, 372: 1500-1509.
- Sampson, L., van der Schyff, N. and Cupido, C. 2015. The unsuspected killer: Liquefied petroleum gas overexposure in South Africa. *SAMJ South African Medical Journal*, 105(2): 152-152.
- Sampson, U.K.A., Harrell, F.E., Fazio, S., Nwosu, S., Mercaldo, N., Mensah, G., Davidson, M.H., Coll, B. and Feinstein, S.B. 2015. Carotid adventitial vasa vasorum and intima-media thickness in a primary prevention population. *Echocardiography-A Journal of Cardiovascular Ultrasound and Allied Techniques*, 32: 264-270.
- Saraswat, V., Norris, S., De Knecht, R.J., Sanchez Avila, A., Sonderup, M., Zuckerman, E., Arkkila, P., Stedman, C., Acharya, S., Aho, I., Anand, A.C. and Spearman, C. 2015. Historical epidemiology of hepatitis C virus (HCV) in select countries - Volume 2. *Journal of Viral Hepatitis*, 22(Suppl 1): 6-25.
- Sathyamoorthy, T., Tezera, L.B., Walker, N.F., Brilha, S., Saraiva, L., Mauri, M.A., Wilkinson, R.J., Friedland, J.S. and Elkington, P.T.G. 2015. Membrane type 1 matrix metalloproteinase regulates monocyte migration and collagen destruction in tuberculosis. *Journal of Immunology*, 195: 882-891.
- Savic, R.M., Ruslami, R., Hesselting, A.C., Ramachandran, G., Ganiem, A.R., Swaminathan, S., McIlleron, H., Gupta, A., Thakur, K., Van Crevel, R., Aarnoutse, R. and Dooley, K.E. 2015. Pediatric Tuberculous Meningitis: model-based approach to determining optimal doses of the anti-Tuberculosis drugs Rifampin and Levofloxacin for children. *Clinical Pharmacology & Therapeutics*, 98(6): 622-629.
- Schwartz, I.S., Govender, N., Corcoran, C., Dlamini, S.K., Prozesky, H., Burton, R., Mendelson, M., Taljaard, J., Lehloeny, R., Calligaro, G.L., Colebunders, R. and Kenyon, C. 2015. Clinical characteristics, diagnosis, management, and outcomes of disseminated emmonsiosis: a retrospective case series. *Clinical Infectious Diseases*, 61(6): 1004-1012.
- Schwartz, I.S., Kenyon, C., Feng, P., Govender, N., Dukik, K., Sigler, L., Jiang, Y., Stielow, J.B., Muoz, J.F., Cuomo, C.A., Botha, A. and Stchigel, A.M. 2015. 50 Years of Emmonsia disease in humans: the dramatic emergence of cluster of novel fungal pathogens. *PLOS Pathogens*, 11(11): e1005198(8pp).
- Schwartz, P.J., La Rovere, M.T., De Ferrari, G.M. and Mann, D.L. 2015. Autonomic Modulation for the Management of Patients with Chronic Heart Failure. *Circulation-Heart Failure*, 8: 619-628.
- Scott Millar, R.N. and Chin, A. 2015. Rhythms of the heart: the history of electrophysiology and its current status in South Africa. *SA Heart*, 12(3): 156-163.
- Scriven, J., Rhein, J., Hullsiek, K.H., von Hohenberg, M., Linder, G., Rolfes, M., Williams, D., Taseera, K., Meya, D.B., Meintjes, G. and Boulware, D.R. 2015. Early ART after cryptococcal meningitis is associated with cerebrospinal fluid pleocytosis and macrophage activation in a multisite randomized trial. *Journal of Infectious Diseases*, 212: 769-778.
- Senthilingam, M., Pietersen, E., McNerney, R., Riele, J., Sedres, P., Wilson, R. and Dheda, K. 2015. Lifestyle, attitudes and needs of uncured XDR-TB

- patients living in the communities of South Africa: a qualitative study. *Tropical Medicine & International Health*, 20(9): 1155-1161.
- Shaboodien, G., Watkins, D.A., Pillay, K., Beighton, P., Heckmann, J.M. and Mayosi, B.M. 2015. Limb-girdle weakness in a marfanoid man: distinguishing calpainopathy from Becker's muscular dystrophy. *Practical Neurology*, 15: 152-154.
- Sieglera, A.J., Sullivan, P., de Voux, A., Phaswana-Mafuya, N., Bekker, L., Baral, S., Winskell, K., Kose, Z., Wirtz, A.L., Brown, B. and Stephenson, R. 2015. Exploring repeat HIV testing among men who have sex with men in Cape Town and Port Elizabeth, South Africa. *Aids Care*, 27(2): 229-234.
- Sigurgeirsson, B., Boznanski, A., Todd, G., Vertruyen, A., Schuttelaar, M.A., Zhu, X., Schauer, U., Qaqundah, P., Poulin, Y., Kristjansson, S., Von Berg, A., Nieto, A., Boguniewicz, M., Paller, A.S., Dakovic, R., Ring, J. and Luger, T. 2015. Safety and efficacy of pimecrolimus in atopic dermatitis: a 5-year randomized trial. *Pediatrics*, 135(4): 597-606.
- Silal, S., Little, F., Barnes, K.I. and White, L.J. 2015. Hitting a moving target: a model for malaria elimination in the presence of population movement. *PLoS One*, 10(12): e0144990(16pp).
- Silal, S.P., Little, F., Barnes, K.I. and White, L.J. 2015. Predicting the impact of border control on malaria transmission: a simulated focal screen and treat campaign. *Malaria Journal*, 14: 1-14.
- Sinxadi, P., Leger, P.D., McIlerron, H., Smith, P.J., Dave, J.A., Levitt, N., Maartens, G. and Haas, D.W. 2015. Pharmacogenetics of plasma efavirenz exposure in HIV-infected adults and children in South Africa. *British Journal of Clinical Pharmacology*, 80(1): 146-156.
- Siontis, K.C., Geske, J.B. and Gersh, B. 2015. Atrial fibrillation pathophysiology and prognosis insights from cardiovascular imaging. *Circulation-Cardiovascular Imaging*, 8: e003020(10pp).
- Sliwa, K. 2015. Dealing with late maternal death due to cardiovascular disease. *SA Heart*, 12(3): 130-133.
- Sliwa, K. and Hilfiker-Kleiner, D. 2015. Cord Blood Samples: A less explored tool in early diagnosis of neonatal cardiovascular disease. *Journal of the American College of Cardiology*, 66(8): 940-942.
- Sliwa, K., Johnson, M.R., Zilla, P. and Roos-Hesselink, J.W. 2015. Management of valvular disease in pregnancy: A global perspective. *European Heart Journal*, 36: 1078-1089.
- Sliwa, K., Matzopoulos, R., Kengne, A.P., Mayosi, B.M. and Stein, D.J. 2015. Global, regional, and national disability-adjusted life years (DALYs) for 306 diseases and injuries and healthy life expectancy (HALE) for 188 countries, 1990-2013: quantifying the epidemiological transition. *Lancet*, 386: 2145-2191.
- Sliwa, K., Mayosi, B.M., Naghavi, M., Wang, H. and Lozano, R. 2015. Global, regional, and national age sex specific all-cause and cause-specific mortality for 240 causes of death, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *Lancet*, 385: 117-171.
- Smit, W., De Lannoy, A., Dover, R.V.H., Lambert, E.V., Levitt, N. and Watson, V.J. 2015. Making unhealthy places: the built environment and non-communicable diseases in Khayelitsha, Cape Town. *Health & Place*, 35: 11-18.
- Smit, W., De Lannoy, A.M.F.A., Dover, R.V.H., Lambert, E.V., Levitt, N. and Watson, V.J. 2015. Making unhealthy places: The built environment and non-communicable diseases in Khayelitsha, Cape Town. *Health & Place*, 35: 11-18.
- Smith, A., de Jager, C.A., Refsum, H. and Rosenberg, I.H. 2015. Homocysteine lowering, B vitamins, and cognitive aging. *American Journal of Clinical Nutrition*, 101(2): 415-416.
- Sonderup, M.W., Wainwright, H.C., Hall, P., Hairwadzi, H. and Spearman, W. 2015. A clinicopathological cohort study of liver pathology in 301 patients with Human Immunodeficiency Virus/Acquired Immune Deficiency Syndrome. *Hepatology*, 61: 1721-1729.
- Sorsdahl, K., Petersen Williams, P., Everett-Murphy, K., Vythilingum, B., de Villiers, P., Myers, B.J. and Stein, D.J. 2015. Feasibility and preliminary responses to a screening and brief intervention program for maternal mental disorders within the context of primary care. *Community Mental Health Journal*, 51: 962-969.
- Spearman, W. and Sonderup, M.W. 2015. Health disparities in liver disease in sub-Saharan Africa. *Liver International*, 35: 2063-2071.
- Srivastava, S., Pasipanodya, J.G., Sherman, C.M., Meek, C., Leff, R. and Gumbo, T. 2015. Rapid drug tolerance and dramatic sterilizing effect of moxifloxacin monotherapy in a novel hollow-fiber model of intracellular mycobacterium kansasii disease. *Antimicrobial Agents and Chemotherapy*, 59(4): 2273-2279.
- Stefanutti, C., Blom, D., Aversa, M.R., Meagher, E.A., du Toit Theron, H., Marais, A.D., Hegele, R.A., Sirtori, C.R., Shah, P.K., Gaudet, D., Vigna, G.B., Sachais, B., Giacomo, S.D., Du Plessis, A.M.E., Bloedon, L.T., Balsler, J., Rader, D.J. and Cuchel, M. 2015. The lipid-lowering effects of lomitapide are unaffected by adjunctive apheresis in patients with homozygous familial hypercholesterolaemia - a post-hoc analysis of a

- Phase 3, single-arm, open-label trial. *Atherosclerosis*, 240: 408-414.
- Steyn, N., Mchiza, Z.J.-R. and Kengne, A.P. 2015. Future challenges for pediatric diabetes management in developing countries: lessons from Africa. *Expert Review of Endocrinology and Metabolism*, 10(1): 75-86.
- Streicher, E.M., Sampson, S.L., Dheda, K., Dolby, T., Simpson, J., Victor, T.C., Gey van Pittius, N.C., Van Helden, P. and Warren, R.M. 2015. Molecular epidemiological interpretation of the epidemic of extensively drug-resistant tuberculosis in South Africa. *Journal of Clinical Microbiology*, 53(11): 3650-3653.
- Stringer, T., Guzgay, H., Combrinck, J.M., Hopper, M., Hendricks, D.T., Smith, P.J., Land, K.M., Egan, T.J. and Smith, G.S. 2015. Synthesis, characterization and pharmacological evaluation of ferrocenyl azines and their rhodium(I) complexes. *Journal of Organometallic Chemistry*, 788: 1-8.
- Stringer, T., Taylor, D., Guzgay, H., Shokar, A., Au, A., Smith, P.J., Hendricks, D.T., Land, K.M., Egan, T.J. and Smith, G.S. 2015. Polyamine quinoline rhodium complexes: synthesis and pharmacological evaluation as antiparasitic agents against *Plasmodium falciparum* and *Trichomonas vaginalis*. *Dalton Transactions*, 44: 14906-14917.
- Subbarao, S., Wilkinson, K., van Halsema, C.L., Rao, S.S., Boyles, T.H., Utay, N.S., Wilkinson, R.J. and Meintjies, G. 2015. Raised venous lactate and markers of intestinal translocation are associated with mortality among in-patients with HIV-associated TB in rural South Africa. *Journals of Acquired Immune Deficiency Syndromes*, 70(4): 406-413.
- Subbian, S., Tsenova, L., Kim, M.-J., Wainwright, H.C., Visser, A., Bandyopadhyay, N., Bader, J.S., Karakousis, P., Murrmann, G.B., Bekker, L., Russell, D.G. and Kaplan, G. 2015. Lesion-specific immune response in granulomas of patients with pulmonary tuberculosis: a pilot study. *PLoS One*, 10(7): e0132249(21pp).
- Surka, S., Steyn, K., Everett-Murphy, K., Gaziano, T.A. and Levitt, N. 2015. Knowledge and perceptions of risk for cardiovascular disease: findings of a qualitative investigation from a low-income peri-urban community in the Western Cape, South Africa. *African Journal of Primary Health Care & Family Medicine*, 7(1): 891(8pp).
- Taleli, L., De Kock, C., Smith, P.J., Pelly, S.C., Blackie, A.L. and van Otterlo, W.A.L. 2015. In vitro antiplasmodial activity of triazole-linked chloroquinoline derivatives synthesized from 7-chloro-N-(prop-2-yn-1-yl)quinolin-4-amine. *Bioorganic & Medicinal Chemistry*, 23: 4163-4171.
- Tameris, M.D., Hokey, D.A., Nduba, V., Sacarlal, J., Laher, F., Kiringa, G., Gondo, K., Lazarus, E., Gray, G.E., Nachman, S., Mahomed, H., Downing, K.J., Abel, B., Scriba, T., McClain, J., Pau, M.G., Hendriks, J., Dheenadhayala, V., Ishmukhamedov, S., Luabeya, K.K.A., Geldenhuys, H.D., Shepherd, B., Blatner, G., Cardenas, V., Walker, R., Hanekom, W.A., Sadoff, J.C., Douoguih, M., Barker, L. and Hatherill, M. 2015. A double-blind, randomised, placebo-controlled, dose-finding trial of the novel tuberculosis vaccine AERAS-402, an adenovirus-vectored fusion protein, in healthy, BCG-vaccinated infants. *Vaccine*, 33: 2944-2954.
- Tchoubi, S., Sobngwi-Tambekou, J., Noubiap, J.J., Asangbeh, S.L., Nkoum, B.A. and Sobngwi, E. 2015. Prevalence and risk factors of overweight and obesity among children aged 659 months in Cameroon: a multistage, stratified cluster sampling nationwide survey. *PLoS One*, 10(12): e0143215(16pp).
- Thee, S., Garcia-Prats, A.J., Draper, H.R., McIleron, H., Wiesner, L., Castel, S.A., Schaa, S.H. and Hesselning, A.C. 2015. Pharmacokinetics and safety of moxifloxacin in children with multidrug-resistant tuberculosis. *Clinical Infectious Diseases*, 60(4): 549-556.
- Theron, G., Jenkins, H.E., Cobelens, F., Abubakar, I., Khan, A.J., Cohen, T. and Dowdy, D.W. 2015. Data for action: collection and use of local data to end tuberculosis. *Lancet*, 386: 2324-2333.
- Theron, G., Peter, J., Zijenah, L., Chanda, D., Mangu, C.D., Clowes, P., Rachow, A., Lesosky, M., Hoelscher, M., Pym, A., Mwaba, P., Mason, P.R., Naidoo, P., Pooran, A., Sohn, H., Pai, M., Stein, D.J. and Dheda, K. 2015. Psychological distress and its relationship with non-adherence to TB treatment: a multicentre study. *BMC Infectious Diseases*, 15: 253(12pp).
- Tikly, M., Hodkinson, B. and Dheda, K. 2015. Biologic therapy for rheumatoid arthritis in developing countries - a place for non-TNF inhibitors as first-line treatment? *Rheumatology*, 54: 208-209.
- Tindana, P., de Vries, J., Campbell, M.M., Littler, K., Seeley, J., Marshall, P., Troyer, J., Ogundipe, M., Alibu, V.P., Yakubu, A. and Parker, M. 2015. Community engagement strategies for genomic studies in Africa: a review of the literature. *BMC Medical Ethics*, 16: 24(12pp).
- Torrado, E., Fountain, J.J., Liao, M., Tighe, M., Reiley, W.W., Lai, R., Meintjes, G., Pearl, J.E., Chen, X., Zak, D.E., Thompson, E.G., Aderem, A., Ghilardi, N., Solache, A., McKinstry, K.K., Strutt, T.M., Wilkinson, R.J., Swain, S.L. and Cooper, A.M. 2015. Interleukin 27R regulates CD4+ T cell phenotype and impacts protective immunity during *Mycobacterium tuberculosis* infection. *Journal of Experimental Medicine*, 212(9): 1449-1463.

- Torres, M., Garcia-Garcia, L., Cruz-Hervert, P., Guio, H., Carranza, C., Ferreyra-Reyes, L., Canizales, S., Molina, S., Ferreira-Guerrer, E., Tellez, N., Montero-Campos, R., Delgado-Sanchez, G., Mongua-Rodriguez, N., Sifuentes-Osornio, J., Ponce-de-Leon, A., Sada, E., Young, D.B. and Wilkinson, R.J. 2015. Effect of isoniazid on antigen-specific interferon- $\gamma$  secretion in latent tuberculosis. *European Respiratory Journal*, 45: 473-482.
- Uthman, O.A., Wiysonge, C., Ota, O., Nicol, M.P., Hussey, G.D., Ndumbe, P.M. and Mayosi, B.M. 2015. Increasing the value of health research in the WHO African Region beyond 2015 – reflecting on the past, celebrating the present and building the future: a bibliometric analysis. *BMJ Open*, 5: e006340(70pp).
- van Dam, J., Musuku, J., Zuhlke, L., Engel, M.E., Nestle, N., Tadmor, B., Spector, J. and Mayosi, B.M. 2015. An open-access, mobile compatible, electronic patient register for rheumatic heart disease (eRegister) based on the World Heart Federations framework for patient registers. *Cardiovascular Journal of Africa*, 26(6): 227-233.
- van der Leeuw, J., Visseren, F.L.J., Woodward, M., Zoungas, S., Kengne, A.P., van der Graaf, Y., Glaziou, P., Hamet, P., Macmahon, S., Poulter, N., Grobbee, D.E. and Chalmers, J. 2015. Predicting the effects of blood pressure-lowering treatment on major cardiovascular events for individual patients with type 2 diabetes mellitus results from action in diabetes and vascular disease: preterax and diamicon MR controlled evaluation. *Hypertension*, 65: 115-121.
- van der Straten, A., Montgomery, E.T., Musara, P., Etima, J., Naidoo, S., Laborde, N., Hartmann, M., Levy, L., Bennie, T., Cheng, H., Piper, J., Grossman, C., Marrazzo, J. and Mensch, B. 2015. Disclosure of pharmacokinetic drug results to understand nonadherence. *AIDS*, 29: 2161-2171.
- Van Der Walt, I., Swanepoel, C.R., Mahala, B. and Meyers, A.M. 2015. Important complications of chronic kidney disease. *SAMJ South African Medical Journal*, 105(4): 1-4.
- Van Der Watt, J., Benatar, M.G., Harrison, T.B., Carrara, H. and Heckmann, J.M. 2015. Isoniazid exposure and pyridoxine levels in human immunodeficiency virus associated distal sensory neuropathy. *International Journal of Tuberculosis and Lung Disease*, 19(11): 1312-1319.
- van der Westhuizen, F.H., Sinxadi, P., Dandara, C., Smuts, I., Riordan, G.T.M., Meldau, S., Malik, A.N., Sweeney, M.G., Tsai, Y., Towers, G.W., Louw, R., Gorman, G., Payne, B., Soodyall, H. and Pepper, M.S. 2015. Understanding the Implications of Mitochondrial DNA variation in the health of black Southern African populations: the 2014 Workshop. *Human Mutation*, 36: 569-571.
- van der Westhuyzen, R., Winks, S., Wilson, C., Boyle, G., Gessner, R.K., de Melo Soares, C., Taylor, D., De Kock, C., Njoroge, M., Brunschwig, C., Lawrence, N., Rao, S.P.S., Sirmel, F.A., van Helden, P., Seldon, R., Moosa, A., Warner, D., Arista, L., Manjunatha, U.H., Smith, P.W., Street, L.J. and Chibale, K. 2015. Pyrrolo[3,4-c]pyridine-1,3(2H)-diones: a novel antimycobacterial class targeting mycobacterial respiration. *Journal of Medicinal Chemistry*, 58: 9371-9381.
- Van Zyl Smit, R. 2015. Chronic obstructive pulmonary disease in South Africa: Under-recognised and undertreated. *SAMJ South African Medical Journal*, 105(9): 785.
- Van Zyl Smit, R., Naidoo, J., Wainwright, H.C., Said-Hartley, Q.M., Davids, M., Goodman, H.T., Rogers, S. and Dheda, K. 2015. HIV associated Lymphocytic Interstitial Pneumonia: a clinical, histological and radiographic study from an HIV endemic resource-poor setting. *BMC Pulmonary Medicine*, 15: 38(7pp).
- Vandekerckhove, S., Van Herreweghe, S., Willems, J., Danneels, B., Desmet, T., De Kock, C., Smith, P.J., Chibale, K. and D'Hooghe, M. 2015. Synthesis of functionalized 3-, 5-, 6- and 8-aminoquinolines via intermediate (3-pyrrolin-1-yl)- and (2-oxopyrrolidin-1-yl)quinolines and evaluation of their antiplasmodial and antifungal activity. *European Journal of Medicinal Chemistry*, 92: 91-102.
- Veale, C.G.L., Edkins, A.L., de la Mare, J.-A., De Kock, C., Smith, P.J. and Khanye, S. 2015. Facile synthesis and biological evaluation of assorted indolyl-3-amides and esters from a single, stable carbonyl nitrile intermediate. *Tetrahedron Letters*, 56: 1860-1864.
- Venter, W.D.F., Cowan, F.M., Black, V., Rebe, K. and Bekker, L. 2015. Pre-exposure prophylaxis in Southern Africa: feasible or not? *Journal of the International AIDS Society*, 18(Suppl 3): 19979(7pp).
- Verguet, S., Olson, Z.D., Babigumira, J.B., Desalegn, D., Johansson, K.A., Kruk, M.E., Levin, C., Nugent, R.A., Pecenka, C., Shrimme, M.G., Memirie, S.T., Watkins, D.A. and Jamison, D.T. 2015. Health gains and financial risk protection afforded by public financing of selected interventions in Ethiopia: an extended cost-effectiveness analysis. *The Lancet Global Health*, 3: e288-e296.
- Vermaak, J., Dave, J.A., Levitt, N. and Heckmann, J.M. 2015. Sensory neuropathy and metabolic risk factors in human immune deficiency virus infected South Africans receiving protease inhibitors. *AIDS Research and Therapy*, 12: 30(7pp).
- Viviers, P.J. and Van Zyl-Smit, R. 2015. Chronic obstructive pulmonary disease diagnosis and classification of severity. *SAMJ South African Medical Journal*, 105(9): 786-788.

- Walker, N.F. and Whitty, C.J.M. 2015. Tackling emerging infections: clinical and public health lessons from the West African Ebola virus disease outbreak, 2014-2015. *Clinical Medicine*, 15(5): 457-460.
- Walker, N.F., Brown, C.S., Youkee, D., Baker, P., Williams, N., Kalawa, A., Russell, K., Samba, A.F., Bentley, N., Koroma, F., King, M.B., Parker, B.E., Thompson, M., Boyles, T.H., Healey, B., Kargbo, B., Bash-Taqi, D., Simpson, A.J., Kamara, A., Kamara, T.B., Lado, M., Johnson, O. and Brooks, T. 2015. Evaluation of a point-of-care blood test for identification of Ebola virus disease at Ebola holding units, Western Area, Sierra Leone, January to February 2015. *Eurosurveillance*, 20(12): 21073(6pp).
- Walker, N.F., Scriven, J., Meintjes, G. and Wilkinson, R.J. 2015. Immune reconstitution inflammatory syndrome in HIV-infected patients. *HIV/AIDS - Research and Palliative Care*, 7: 49-64.
- Watermeyer, G. and Thomson, S.R. 2015. Granulomas at initial diagnosis of Crohns disease signal a poor outcome. *SAMJ South African Medical Journal*, 105(6): 480-483.
- Watermeyer, G., Epstein, D. and Kassianides, C. 2015. Recommendations on the use of anti-TNF's in adults with Inflammatory Bowel Disease. *The South African Gastroenterology Review*, 3(21): 21-24.
- Watkins, D.A., Mvundura, M., Nordet, P. and Mayosi, B.M. 2015. A cost-effectiveness analysis of a program to control rheumatic fever and rheumatic heart disease in Pinar del Rio, Cuba. *PLoS One*, 10(3): e0121363(12pp).
- Werfalli, M., Raubenheimer, P.J., Engel, M.E., Peer, N., Kalula, S.Z., Kengne, A.P. and Levitt, N. 2015. Effectiveness of community-based peer-led diabetes self-management programmes (COMP-DSMP) for improving clinical outcomes and quality of life of adults with diabetes in primary care settings in low and middle-income countries (LMIC): a systematic review and meta-analysis. *BMJ Open*, 5: e007635(4pp).
- Wicht, K., Combrinck, J.M., Smith, P.J. and Egan, T.J. 2015. Bayesian models trained with HTS data for predicting b-haematin inhibition and in vitro antimalarial activity. *Bioorganic & Medicinal Chemistry*, 23: 5210-5217.
- Wilhelm, A., Kendrekar, P., Noreljaleel, A., Abay, E., Bonnet, S.L., Wiesner, L., De Kock, C., Swart, K.J. and van der Westhuizen, J. 2015. Syntheses and in vitro antiplasmodial activity of aminoalkylated chalcones and analogues. *Journal of Natural Products*, 78: 1848-1858.
- Wilkinson, K., Walker, N.F., Meintjes, G., Deffur, A., Nicol, M.P., Skolimowska, K.H., Matthews, K., Tadokera, R., Seldon, R.R., Maartens, G., Rangaka, M.X., Besra, G.S. and Wilkinson, R.J. 2015. Cytotoxic mediators in paradoxical HIV-tuberculosis immune reconstitution inflammatory syndrome. *Journal of Immunology*, 194: 1748-1754.
- Wilkinson, R.J. 2015. Towards host-directed therapies for tuberculosis. *Nature Reviews Drug Discovery*, 14(8): 511-512.
- Williams, P., Petersen, Z., Sorsdahl, K., Mathews, C., Everett-Murphy, K. and Parry, C. 2015. Screening and brief interventions for alcohol and other drug use among pregnant women attending midwife obstetric units in Cape Town, South Africa: a qualitative study of the views of health care professionals. *Journal of Midwifery & Womens Health*, 60: 401-409.
- Yako, Y.Y., Echouffo-Tcheugui, J.B., Balti, E.V., Matsha, T.E., Sobngwi, E., Erasmus, R.T. and Kengne, A.P. 2015. Genetic association studies of obesity in Africa: a systematic review. *Obesity Reviews*, 16: 259-272.
- Yako, Y.Y., Madubedube, J.H., Kengne, A.P., Erasmus, R.T., Pillay, T. and Matsha, T.E. 2015. Contribution of ENPP1, TCF7L2, and FTO polymorphisms to type 2 diabetes in mixed ancestry ethnic population of South Africa. *African Health Sciences*, 15(4): 1149-1160.
- Youkee, D., Brown, C.S., Lilburn, P., Shetty, N., Brooks, T., Simpson, A., Bentley, N., Lado, M., Kamara, T.B., Walker, N.F. and Johnson, O. 2015. Assessment of environmental contamination and environmental decontamination practices within an Ebola holding unit, Freetown, Sierra Leone. *PLoS One*, 10(12): e0145167(10pp).
- Yulyana, y., Ho, I.A., Sia, K.C., Newman, J.P., Toh, X., Endaya, B.B., Chan, J.K.Y., Gneccchi, M., Huynh, H., Chung, A.Y.F. and Lim, K. 2015. Paracrine factors of human fetal MSCs inhibit liver cancer growth through reduced activation of IGF-1R/PI3K/Akt signaling. *Molecular Therapy*, 23(4): 746-756.
- Zar, H.J., Bateman, E.D., Potter, P.C., Bousquet, J., Schunemann, H.J. and Fonseca, J. 2015. MACVIA-ARIA Sentinel Network for allergic rhinitis (MASK-rhinitis): the new generation guideline implementation. *Allergy*, 70: 1372-1392.
- Zemlin, A.E., Matsha, T.E., Kengne, A.P. and Erasmus, R.T. 2015. Derivation and validation of an HbA1c optimal cutoff for diagnosing prediabetes in a South African mixed ancestry population. *Clinica Chimica Acta*, 448: 215-219.

Zuhlke, L., Engel, M.E., Karthikeyan, G., Rangarajan, S., Mackie, P., Cupido, B.J., Mauff, K., Islam, S., Joachim, A., Daniels, R., Francis, V., Ogendo, S., Gitura, B., Mondo, C., Okello, E., Lwabi, P., Al-Kebsi, M.M., Hugo-Hamman, C., Sheta, S.S., Haileamlak, A., Daniel, W., Goshu, D.Y., Abdissa, S.G., Desta, A.G., Shasho, B.A., Begna, D.M., ElSayed, A., Ibrahim, A.S., Musuku, J., Bode-Thomas, F., Okeahialam, B.N., Ige, O., Sutton, C., Misra, R., Fadl, A.A., Kennedy, N., Damasceno, A., Sani, M., Ogah, O., Olunuga, T., Elhassan, H.M.M., Mocumbi, A.O., Adeoye, A.M., Mntla, P., Ojji, D., Mucumbitsi, J., Teo, K., Yusuf, S. and Mayosi, B.M. 2015. Characteristics, complications, and gaps in evidence-based interventions in rheumatic heart disease: the Global Rheumatic Heart Disease Registry (the REMEDY study). *European Heart Journal*, 36: 1115-1122.

Zuhlke, L., Engel, M.E., Watkins, D.A. and Mayosi, B.M. 2015. Incidence, prevalence and outcome of rheumatic heart disease in South Africa: a systematic review of contemporary studies. *International Journal of Cardiology*, 199: 375-383.

Zumla, A., Maeurer, M., Moll, G. and Mayosi, B.M. 2015. Host-directed therapies for tuberculous pericarditis. *International Journal of Infectious Diseases*, 32: 30-31.

# Department of Obstetrics and Gynaecology

## Research Report 2015

**Head of Department: Professor Lynette Denny**

## Departmental Profile

Our Mission Statement

- To provide patient-centred high quality care to the women we serve
- To foster a climate of intellectual enquiry
- To pursue excellence in research at every level of care
- To help create a world-class African University

The Department provides secondary and tertiary level Obstetric and Gynaecological services to women who reside in the Cape Metro West and includes Groote Schuur Hospital, New Somerset Hospital and Mowbray Maternity Hospital with substantial outreach to level one institutions such as Maternity Obstetric Units, Community Health Clinics and District Hospital.

Despite the heavy clinical burden, research forms a critical component of the mission and vision of the department as an instrument for improving women's health in general and contributing to global cutting-edge advances in women's health. There are four sub-specialist areas recognized in O&G namely; Maternal-Fetal medicine, Gynaecological Oncology, Reproductive Medicine and Urogynaecology. Currently sub-specialist training is not funded by the Department of Health and training is funded either by the private sector or fellows come self-funded. Trainees graduate through the College of Medicine of South Africa.

While most of the research remains clinical, increasingly there is more molecular-based work being conducted, aimed at unravelling and understanding basic pathophysiological mechanisms underlying reproductive disorders. There is a laboratory within the department now capable of basic protein work, including western blotting and immunohistochemistry. Research is conducted at all levels of care and comprises participation

in large, international, collaborative trials, cutting edge national research projects, self-initiated local and collaborative studies, as well as smaller individual projects. In addition, our Undergraduate Teaching Unit continues to be actively engaged in education research.

Research supervision is provided at the level of MMed and MPhil dissertations and PhD theses to registrars, sub-specialist trainees and staff.

More recently, the Head of Department, Professor Lynette Denny, was appointed the director of the SAMRC Gynaecology Cancer Research Centre. This centre consists of 12 cancer researchers, half located in basic science and half are clinicians. The grant is designed to stimulate transversal collaborative research and to put cancer research on the agenda. The Centre will also collaborate with institutions outside of Cape Town and is currently partnered with Walter Sisulu University. The grant is for five years.

The Department has a strong research collaborative network with leading international institutions such as the University of California San Francisco, the Institute for Transfusion Medicine, Yale, Kings College, the University of Edinburgh, Columbia University, New York, among others. A number of staff are on international boards and organisations such as World Health Organisation, International Urogynaecologic Society, International Gynaecological Cancer Society, International Federation of Gynaecology and Obstetrics (FIGO).

## Departmental Statistics

### Permanent and Long-Term Contract Staff

Professors	3
Associate Professors (full time)	1
Chief Specialist and Level 2 Head	1
Senior Lecturers	13
Lecturers (including part-time)	39
Senior Scholar	1
Subspecialist trainees (full time)	2
Subspecialist trainees (part time)	2
Postdoctoral and Research Staff	3
Technical and Support Staff	7
Admin and Clerical Staff	7
<b>Total</b>	<b>79</b>

### Students

Doctoral	1
Masters	26
Undergraduate	816
<b>Total</b>	<b>843</b>

## Research Fields and Staff

### PROFESSOR LYNETTE DENNY

Cervical cancer: prevention in low-resource settings; natural history; precursors in HIV positive women. Other gynaecological cancers: management of endometrial, ovarian cancer and advanced vulval cancer. HPV: prevalence, types; HPV vaccination (prophylactic and therapeutic), HPV DNA genotyping

### DR SAADIQA ALLIE

Obstetric hysterectomy; Teenage pregnancy

### DR TRACEY ADAMS

Genetics of ovarian cancer and impact on survival, hereditary ovarian syndromes, quality of life in gynaecological cancer patients, HPV associated disease especially in HIV positive women

### ASSOCIATE PROFESSOR JOHN ANTHONY

Thrombophilia; Eclampsia; Bioethics, echocardiography and cardiac disease in pregnancy

### DR KENDALL BROUARD

Sexual function in women with Pelvic organ prolapse; Surgical outcomes following Pelvic organ prolapse surgery

### PROFESSOR SILKE DYER

Infertility: health-services in low-resource settings; psychosocial consequences; Monitoring utilisation, effectiveness and safety of Assisted Reproductive Technology nationally, regionally and internationally

### DR AHMINAH FAKIER

Mid upper arm circumference: a surrogate for body mass index for pregnant women?

### PROFESSOR SUSAN FAWCUS

Maternal mortality; Perinatal mortality; Intrapartum asphyxia; Magnesium supplementation in pregnancy; Better Birthing Initiative. Calcium and pre-eclampsia trial, co-investigator Associate Professor John Anthony. Obstetric haemorrhage pilot project. Multicentre collaborative study Co-investigator: Associate Professor J Anthony. Assessor for confidential enquiries into maternal deaths nationally



### **DR CHIVAUGN GORDON**

Student-run SHAWCO clinics: why do students attend and how do they benefit? Intimate Partner Violence curriculum development; Teaching and learning around LGBT healthcare needs. Management of people infected with HIV

### **DR ANNE HORAK**

High risk obstetrics; Fetal cardiac abnormalities

### **DR STEPHEN JEFFERY**

Refractory overactive bladder syndrome: treatment, epidemiology; HIV and obstetric pelvic floor trauma; surgical repair of posterior compartment prolapse; interdisciplinary patient care; laparoscopic surgery, fistulae repair

### **DR KHATIJA KADWA**

Audit of women managed with Cone Biopsy At GSH. Reproductive medicine

### **DR LYNELLE KENNETH**

IUCD in HIV pos women

### **DR PIETER KRUGER**

Urostatic bulking agent: "Efficacy and Safety of a Non-Degradable Bulking Agent in Women with Stress Urinary Incontinence: a Multi-Center Prospective Observational Study"; laparoscopic and prolapse surgery

### **MR JASON MARCUS**

Maternal and newborn care, Safe Motherhood, Primary Maternity Care, Interdisciplinary education, Undergraduate Education, Emergency Obstetric Care, Emergency Obstetric Simulation Training.

### **DR MUSHI MATJILA**

Pathophysiology of Preeclampsia, Early and Late Recurrent Pregnancy Loss. Molecular aspects of Placentation in Normal and Abnormal Pregnancies. Maternal-Fetal Dialogue including Trophoblast-Decidual Cross-Talk in IVF.

### **DR NOMONDE MBATANI**

Uterine sarcomas: outcome of treatment; Treatment outcome and complications of gynaecological malignancy. Hereditary gynaecological cancer syndromes; management of advanced ovarian cancer, HPV vaccination

### **DR GREG PETRO**

Clinical epidemiology; Haemorrhage and transfusion in the obstetric patient; Termination of pregnancy. Statistics, Level 2 head of O&G in Cape Metro - interest in health systems development

### **DR LINDA ROGERS**

Vulval cancer, MRI Imaging in endometrial and cervical cancer, optimal management of early stage cervical cancer, outcome of ovarian cancer in developing countries.

### **DR LEANN SCHOEMAN**

High-risk obstetrics; Audit of clinical obstetric management; cardiac disease in pregnancy

### **DR VALENTIN STEFAN**

Haemorrhage and transfusion in the obstetric patient. Retired but doing research into undergraduate education and skills development

### **DR CHANTAL STEWART**

Fetal medicine; Women's expectations of and attitudes to fetal anomaly scans; Preterm labour; Ultrasound screening for risk of pregnancy complications.

### **PROFESSOR ZEPHNE VAN DER SPUY (SENIOR SCHOLAR)**

Contraceptive and interceptive development; Polycystic ovary syndrome; Reproductive failure; Premature ovarian insufficiency; Menopause; Nutrition and reproductive health; Genetics of benign gynaecological conditions; Quality of Life in reproductive disorders

### **DR HENRIETTE VAN ZYL**

High risk obstetrics, with special interest in Diabetes in Pregnancy (Pregestational and Gestational), Fetal Medicine and Caesarean Sections - auditing skills & outcome; Gynaecological Endoscopic surgery

### **Sub-speciality trainees**

Dr Nwabisa Giyose: Gynaecological Oncology [Life Healthcare Scholarship]

Dr Ayesha Osman: Maternal and Fetal Medicine [Life Healthcare Scholarship]

Dr Bothwell Guzha: Gynaecological Oncology [Supernumerary from Zimbabwe - self funded]

Dr Tebogo Deo: Reproductive Medicine [part-time]

Dr Paversan Archary: Reproductive Medicine [part-time]

### **Registered PhD Student**

Dr Rakiya Saidu

### **Contact Details**

Postal Address: Department Obstetrics & Gynaecology, H45 Old Main Building, Grootte Schuur Hospital,

Observatory, 7925

Telephone: +27 21 404 4485

Fax: +27 21 448 6921

Email: [lynette.denny@uct.ac.za](mailto:lynette.denny@uct.ac.za)

Website: <http://www.health.uct.ac.za/fhs/departments/obsgyn/about>

## RESEARCH OUTPUT

### Chapters in books

Denny, L.A., Herrero, R., Levin, C. and Kim, J.J. 2015. Cervical Cancer. In H. Gelband, P. Jha, R. Sankaranarayanan and S. Horton (eds), *Cancer-Disease Control Priorities*, pp. 69-84. 3<sup>rd</sup> edition. USA: The World Bank. ISBN 9781464803499.

Denny, L.A. and Van Wijk, A.L. 2015. Cervix. In B. O'Sullivan (ed), *Manual of Clinical Oncology*, pp. 449-466. 9<sup>th</sup> edition. UK: John Wiley and Sons, Ltd. ISBN 9781444332445.

Herrington, J., Mitchell, V.A., Rowe, M. and Titus, S. 2015. The case studies: Authentic learning. In V. Bozalek, D. Ngambi, D. Wood, J. Herrington, J. Hardman and A. Amory (eds), *Activity Theory, Authentic Learning and Emerging Technologies Towards a Transformative Higher Education Pedagogy*, pp. 192-210. London: Routledge, Taylor and Francis Group, London and New York. ISBN 9781138778597.

Leibowitz, B., Liebrich, W., Meyer, I., Gordon, C. and de Kock, C. 2015. Learning to conduct research by doing: a case study in a postgraduate health education program. In V. Bozalek, D. Ngambi, D. Wood, J. Herrington, J. Hardman and A. Amory (eds), *Activity Theory, Authentic Learning and Emerging Technologies Towards a Transformative Higher Education Pedagogy*, pp. 68-79. London: Routledge, Taylor and Francis Group, London and New York. ISBN 9781138778597.

### Articles in peer-reviewed journals

Adams, T.S. 2015. Gynaecologic malignancies in pregnancy. *Obstetrics and Gynaecology Forum*, 25(4): 8-13.

Bedeker, W., Lachman, A.S., Borkum, M., Hellenberg, D.A. and Cupido, C. 2015. Impact of transthoracic echocardiography at district hospital level. *SAMJ South African Medical Journal*, 105(10): 817-822.

Bloch, E.M., Crookes, L., Hull, J., Fawcus, S., Gangaram, R., Anthony, J., Ingram, C., Ngcobo, S., Croxford, J., Creel, D.V. and Murphy, E.L. 2015. The impact of human immunodeficiency virus infection on obstetric haemorrhage and blood transfusion in South Africa. *Transfusion*, 55(7): 1675-1684.

Bonongwe, P., Lindow, S. and Coetzee, E.J. 2015. Reproducibility of a 75G oral glucose tolerance test in pregnant women. *Journal of Perinatal Medicine*, 43(3): 333-338.

Brouard, K.J., Howard, B. and Dyer, R.A. 2015. Hepatic pregnancy suspected at term and successful delivery

of a live neonate with placental attachment to the right lobe of the liver. *Obstetrics & Gynecology*, 126(1): 207-210.

Daire, A., Andronikou, S., Boutall, A.H., Constantatos, S., Stewart, C. and Candy, S. 2015. Evaluation of fetal MRI in a South African referral centre. *SAMJ South African Medical Journal*, 105(11): 930-933.

De Jong, P.R. 2015. Caesarean section deliveries – are we doing too many or too few? Opinion. *Obstetrics and Gynaecology Forum*, 25(3): 7-11.

Denny, L.A. 2015. Control of cancer of the cervix in low- and middle-income countries. *Annals of Surgical Oncology*, 22: 728-733.

Denny, L.A. 2015. HIV and HPV as fatal partners. *Current Obstetric and Gynecology Reports*, 4(3): 143-148.

Denny, L.A. 2015. Proceedings of the African Pathologists Summit; March 22-23, 2013; Dakar, Senegal Summary. *Archives of Pathology and Laboratory Medicine*, 139: 126-132.

Denny, L.A. and Bhatla, N. 2015. Staging in gynaecologic oncology. *Best Practice & Research in Clinical Obstetrics & Gynaecology*, 29(6): 765-766.

Denny, L.A. and Prendiville, W. 2015. Cancer of the cervix: early detection and cost-effective solutions. *International Journal of Gynecology & Obstetrics*, 131: S28-S32.

Denny, L.A., Quinn, M., Pecorelli, S., Bermudez, A., Cain, J., Fujiwara, K., Hacker, N., Lundqvist, E.A., Pratt, J. and Shrivastava, S. 2015. FIGO Cancer Report 2015. *International Journal of Gynecology & Obstetrics*, 131: S75.

Farina, Z. and Fawcus, S. 2015. Oxytocin ensuring appropriate use and balancing efficacy with safety. *SAMJ South African Medical Journal*, 105(4): 271-274.

Fawcus, S. 2015. Caesarean delivery and maternal mortality. *Obstetrics and Gynaecology Forum*, 25(3): 31-34.

Gebhardt, S., Fawcus, S., Moodley, P. and Farina, Z. 2015. Maternal death and caesarean section in South Africa: results from the 2011-2013 saving Mothers report of the National Committee for confidential enquiries into maternal Deaths. *SAMJ South African Medical Journal*, 105(4): 287-291.

Hofmeyr, G.J., Seuc, A.H., Betr  n, A.P., Purnat, T.D., Ciganda, A., Munjanja, S.P., Manyame, S., Singata, M., Fawcus, S., Frank, K. and Hall, D.R. 2015. The effect of calcium supplementation on blood pressure in non-pregnant women with previous pre-eclampsia: an exploratory, randomized placebo controlled study. *Pregnancy Hypertension: An International Journal of Women's Cardiovascular Health*, 5: 273-279.

- Honikman, S., Fawcus, S. and Meintjes, I. 2015. Abuse in South African maternity settings is a disgrace: Potential solutions to the problem. *SAMJ South African Medical Journal*, 105(4): 284-286.
- Ishihara, O., Adamson, G.D., Dyer, S.J., De Mouzon, J., Nygren, K.G., Sullivan, E.A., Zegers-Hochschild, F. and Mansour, R. 2015. International committee for monitoring assisted reproductive technologies: world report on assisted reproductive technologies, 2007. *Fertility and Sterility*, 103(2): 402-413.
- Knight, L., Todd, G., Muloiwa, R., Matjila, M. and Lehloeny, R.J. 2015. Stevens Johnson Syndrome and toxic epidermal necrolysis: maternal and foetal outcomes in twenty- two consecutive pregnant HIV infected women. *PLoS One*, 10(8): e0135501(11pp).
- Krick, D. 2015. Female genital mutilation - an update. *O & G Forum Obstetrics & Gynaecology Forum*, 25(4): 40-44.
- Kruger, P.F. and Jeffery, S. 2015. Does the Burch colposuspension still have a place in modern gynaecology? *Obstetrics and Gynaecology Forum*, 25: 25-28.
- Le, H.H., Connolly, M.P., Yu, J., Pinchevsky, Y. and Steyn, P.S. 2015. The public health and economic consequences of unintended pregnancies in South Africa. *Healthcare in Low-resource Settings*, 3(5258): 24-30.
- Masson, L., Salkinder, A.L., Olivier, A., McKinnon, L.R., Gamiieldien, H., Mlisana, K., Scriba, T., Lewis, D.A., Little, F., Jaspan, H.B., Ronacher, K., Denny, L.A., Abdool Karim, S.S. and Passmore, J. 2015. Relationship between female genital tract infections, mucosal interleukin-17 production and local T helper type17 cells. *Immunology*, 146: 557-567.
- Mitchell, V.A. 2015. The Human Rights Key: an innovative tool for teaching health and human rights in the health sciences. *African Journal of Health Professions Education*, 7(1): 39-42.
- M'Rithaa, D.K.M., Fawcus, S., Korpela, M. and De la Harpe, R. 2015. The expected and actual communication of health care workers during the management of intrapartum: an interpretive multiple case study. *African Journal of Primary Health Care & Family Medicine*, 7(1): 91(8pp).
- Myers, L., Phillips, T., Hsiao, N.M., Zerbe, A., Petro, G.A., Bekker, L., McIntyre, J.A. and Abrams, E. 2015. Plasma viraemia in HIV-positive pregnant women entering antenatal care in South Africa. *Journal of the International AIDS Society*, 18: 20045(5pp).
- O'Dwyer, S.L., Gupta, M. and Anthony, J. 2015. Pulmonary edema in pregnancy and the puerperium: a cohort study of 53 cases. *Journal of Perinatal Medicine*, 43(6): 675-681.
- Ortner, C.M., Combrink, B., Allie, S., Story, D., Landau, R., Cain, K. and Dyer, R.A. 2015. Strong ion and weak acid analysis in severe preeclampsia: potential clinical significance. *British Journal of Anaesthesia*, 115(2): 275-284.
- Osman, A., Hoffman, A.J., Moore, S. and Van Der Spuy, Z.M. 2015. Reproductive knowledge and use of contraception among women with diabetes. *SAMJ South African Medical Journal*, 105(9): 760-764.
- Prat, J. and Mbatani, N. 2015. Uterine sarcomas. *International Journal of Gynecology & Obstetrics*, 131: S105-S110.
- Sharma, G., Mathai, M., Dickson, K.E., Weeks, A., Hofmeyr, J., Lavender, T., Day, L.T., Mathews, J.E., Fawcus, S., Simen-Kapeu, A. and de Bernis, L. 2015. Quality care during labour and birth: a multi-country analysis of health system bottlenecks and potential solutions. *BMC Pregnancy and Childbirth*, 15(Suppl 2): S2(19pp).
- Steyn, P.S. 2015. Evidence in family planning and contraception. *Obstetrics and Gynaecology Forum*, 25(4): 1-3.
- Tayib, S., Allan, B.R., Williamson, A.-L. and Denny, L.A. 2015. Human papillomavirus genotypes and clinical management of genital warts in women attending a colposcopy clinic in Cape Town, South Africa. *SAMJ South African Medical Journal*, 105(8): 679-684.
- Trimble, C., Morrow, M.P., Kraynyak, K.A., Shen, X., Dallas, M., Yan, J., Edwards, L., Parker, R.L., Denny, L.A., Giffear, M., Brown, A.S., Marcozzi-Pierce, K., Shah, D., Slager, A.M., Sylvester, A.J., Khan, A., Broderick, K.E., Juba, R.J., Herring, T.A., Boyer, J., Lee, J., Sardesai, N.Y., Weiner, D.B. and Bagarazzi, M.L. 2015. Safety, efficacy, and immunogenicity of VGX-3100, a therapeutic synthetic DNA vaccine targeting human papillomavirus 16 and 18 E6 and E7 proteins for cervical intraepithelial neoplasia 2/3: a randomised, double-blind, placebo-controlled phase 2b trial. *Lancet*, 386: 2078-2088.

# Department of Paediatrics and Child Health

## Research report 2015

**Head of Department: Professor Heather Zar**

## Departmental Profile

The Department of Paediatrics and Child Health is a large department in the Faculty of Health Sciences, encompassing the field of general paediatrics as well as a full spectrum of paediatric medical subspecialties. Other disciplines affiliated with the Department make up the School of Child and Adolescent Health.

Child health is a major challenge for South Africa and for the continent where there is high childhood mortality and preventable morbidity. There is an epidemic of infectious diseases as well as a large increase in non-communicable diseases in children such as diabetes and asthma. Chronic diseases are also increasing as childhood survival improves. The department has responded to these priorities with a wide breadth of clinical research activities and a substantial research output, especially in the areas of priority child health problems such as tuberculosis, pneumonia, infectious diseases and HIV.

In 2013, a new, expanded paediatric clinical research unit within the Faculty of Health Sciences, the *Research Centre for Adolescent and Child Health (REACH)* was opened at Red Cross War Memorial Children's Hospital, as the existing unit had been outgrown. Current studies located in REACH include studies of childhood pneumonia, diarrhoea, pertussis, paediatric TB and of HIV-associated illness in adolescents. The centre comprises 80 staff members funded through international grant support (including the National Institute of Health (NIH) USA, Wellcome Trust,) and the Gates Foundation); is involved in the training of 48 postgraduate students from different departments (18 masters, 25 doctoral and 5 post-doctoral); and is host to several African healthcare professionals, building clinical and research capacity to improve child health in Africa. REACH serves as a central hub supporting satellite clinical research sites in secondary and community based facilities. The research program is

locally responsive and globally relevant, addressing national priorities such as HIV, TB and childhood pneumonia; and fostering international, national and local collaborations. Directed by Prof Heather Zar, this centre is a remarkable partnership between RCWMCH, the Western Cape Health Department and the Department of Paediatrics, UCT, as well as other inter-departmental collaborations. REACH provides opportunities for training of South African and African health care professionals in clinical research, so building the next generation of academics and African leaders in child health.

In 2014 the Medical Research Council (MRC) awarded a unit in Child and Adolescent Health, the first MRC unit to be established in the Department. The MRC Unit on Child & Adolescent Health undertakes translational research focused on priority childhood diseases including TB, pneumonia and HIV and the intersection of infectious diseases and non-communicable diseases such as asthma. Research integrates perspectives from basic, clinical and population science. A flagship study is the unique longitudinal birth cohort study, the Drakenstein Child Health study, which investigates the antenatal and early life determinants of child health, with a focus on childhood pneumonia, and the impact of early infection on chronic disease. The unit is directed by Prof Heather Zar (Head of Department).

There are 4 NRF rated researchers in the Department including one A-Rated person.

## Departmental Structure

### General Paediatrics

Emergency Unit  
Inpatient unit

### Subspecialties

Adolescent Medicine  
Allergy  
Cardiology  
Critical Care  
Endocrine  
GIT  
Haematology/Oncology  
Infectious Diseases  
Neonatology  
Nephrology  
Neurodevelopment  
Neurology  
Pulmonology  
Rheumatology

## Affiliated Disciplines

Allied Health Sciences  
Dietetics  
Child & Adolescent Psychiatry  
Child Health Unit  
Children's Institute  
Dermatology  
Nuclear Medicine  
Paediatric Anaesthesia  
Palliative Care  
Paediatric Pathology  
Paediatric Radiology  
Paediatric Surgery  
Poisons Centre  
South African Tuberculosis Vaccine Initiative (SATVI)-IIDMM

## Departmental Statistics

### Permanent and Long-Term Contract Staff

Professors	3
Associate Professors	11
Senior Lecturers (full time)	33
Lecturers (full time)	5
Senior Lecturers (part time)	7
Lecturers (part-time)	7
Research Staff	72
Administrative and clerical staff	20
<b>Total</b>	<b>158</b>

### Emeritus and Honorary Staff

Emeritus Professors	3
Emeritus Associate Professors	8
Honorary Professors	6
Honorary Senior Lecturers	12
Honorary Lecturers	6
<b>Total</b>	<b>35</b>

## Students

PhD	20
MSc	1
MMed	47
MPhil	36
PG Diploma	3
Undergraduate	587
<b>Total</b>	<b>694</b>

## Research Fields and Staff

### J. AHRENS

Review of respiratory virus infections of children admitted to the PICU; Analysis of reasons for refusals or acceptance of patient referrals to the PICU

### A.C. ARGENT

Critical illness; respiratory mechanics; electrical impedance tomography; severe respiratory disease; critical care practices; quality and safety of critical care; traumatic brain injury; HIV and critical illness; fluids in the critically ill; prevention of nosocomial infections; viral infections in PICU; paediatric cardiomyopathy/myocarditis; resource allocation; severe sepsis and septic shock; "Pathways to care" for critically ill children; training for healthcare workers working with critically ill/injured children

### H. BARLOW

Nurses and Care; protocols of care and quality in healthcare

### H. BUYS

Ambulatory, emergency and outreach care; paediatric HIV disease and nutrition; diarrhoeal disease

### M. CARRIHILL

Type 1 diabetes in the South African youth; Neonatal screening programmes; Disorders of sex development

### M COETZEE

Improvement science in clinical paediatrics; models of paediatric nursing care; participative approaches – post-graduate curriculum development and clinical practice development

### G COMITIS

Rheumatic fever and rheumatic heart disease; genetic basis of paediatric heart disease; cardiovascular health of patients on HIV therapy;

future cardiac health of normal children; burden of disease of paediatric heart disease; myocarditis and cardiomyopathy; echocardiography and outcomes post-cardiac surgery; cardiac MRI in paediatric heart disease

#### **ML COOKE**

General paediatrics and gastroenterology

#### **A. DAVIDSON**

Paediatric brain tumours; Adapted therapy regimens for low and middle income countries: B-cell malignancy and other HIV-related cancers in children; Genetic syndromes predisposing to childhood cancer; Stem Cell Transplantation for Immunodeficiency

#### **C. DAVIS**

Paediatric critical care; nurse to nurse communication and the action research methodology.

#### **R. DE DECKER**

Rheumatic fever and rheumatic heart disease; the genetic basis of congenital and acquired heart disease; the cardiovascular health of patients on HIV therapy; the future cardiac health of normal children; operational research relating to the burden of disease of congenital and acquired heart disease in the Western Cape; myocarditis and cardiomyopathy

#### **R. DE LACY**

Cystic fibrosis; gastroenterology; liver transplantation

#### **S. DELPORT**

Abnormalities of growth; abnormal pubertal development; advances in diabetes care

#### **R. DIEDERICKS**

Emergency paediatrics; Infectious Diseases

#### **K. DONALD**

Developmental disabilities as they manifest and are managed in resource limited settings such as South Africa (including Cerebral palsy, Autism, Intellectual disability, genetic syndromes). Specific interests include the preventable causes of neurodisability such as alcohol and methamphetamine exposure, organophosphate poisoning and the neurological and neurocognitive complications of HIV

#### **R. DUNKLEY**

Learning from mortality; improving flow and bed management in the hospital to cope with the Surge season

#### **B.S. ELEY**

Primary immune deficiency disorders; paediatric tuberculosis; paediatric HIV/AIDS; paediatric infectious disease.

#### **P. GAJJAR**

Renal disease; paediatric organ transplantation especially infectious complications; paediatric hypertension including Takayasu's Arteritis; acute renal failure and peritoneal dialysis; paediatric HIV nephropathy; adolescent medicine

#### **E. GODDARD**

Paediatric liver disease; transplantation in children; immunology; paediatric infectious disease; paediatric gastroenterology and nutrition

#### **C. GRAY**

Food allergies and eczema

#### **M. HARRISON**

Preterm outcomes; Neonatal respiratory disease; Hypoxic Ischaemic Encephalopathy

#### **M. HENDRICKS**

Rhabdomyosarcoma; Hodgkin's lymphoma

#### **M.K. HENDRICKS**

Public health nutrition; children's rights; community child health

#### **I. HENDRY**

Post-graduate education; clinical nursing research and forensic nursing

#### **L. HENLEY**

Research ethics

#### **J. HEWITSON**

Resource allocation and cardiovascular disease; Trisomy 21 and cardiovascular disease; surgical management of patients with a single ventricle

#### **A. HORN**

Hypoxic Ischaemic Encephalopathy and cost effective neonatal care

#### **Y. JOOLAY**

Neonatology

#### **M. KIBEL**

Child Health generally (Community Paediatrics); and Childhood TB

#### **S.M. KROON**

Mother-to-child transmission of HIV; Human Milk Banking

#### **A. LEONARD**

Implementation research (evidence based practice and improvement research)

#### **M. LEVIN**

Genotypic and phenotypic features of allergic children; paediatric food allergy; atopic dermatitis; impact of demographic, environmental, nutritional and infectious influences on the expression of allergy and atopy; allergy and atopy in children with Vernal Kerato-conjunctivitis; communication issues in asthma and allergy management

**J. LAWRENSON**

Rheumatic fever and rheumatic heart disease; the genetic basis of congenital and acquired heart disease; the cardiovascular health of patients on HIV therapy; the future cardiac health of normal children; operational research relating to the burden of disease of congenital and acquired heart disease in the Western Cape; myocarditis and cardiomyopathy

**L. LINLEY**

Kangaroo mother care; HIE and the effect of head cooling; ethical issues in neonatal care

**M. MCCULLOCH**

Acute kidney injury in PICU; acute peritoneal dialysis; fluid management in emergency and PICU; Transplantation (Renal, Liver and Cardiac); Young Adult Transition; steroid withdrawal in transplantation; Takayasu's arteritis; Atypical hemolytic uremic syndrome; Training of African Fellows in PICU/Nephrology and Challenges faced on return home

**B. MORROW**

Paediatric respiratory disease; nosocomial infections in the PICU; respiratory mechanics; cystic fibrosis; mechanical ventilation; paediatric cardiopulmonary physiotherapy; research ethics; advocacy; regional ventilation determinants; cystic fibrosis

**R. MULOIWA**

Pertussis in children with Respiratory Tract Infection

**S. NAIDOO**

Aeroallergen sensitisation and the prevalence of asthma; allergic rhinitis; and eczema in children with Vernal Keratoconjunctivitis; Evaluating acute asthma management in the medical emergency unit at Red Cross War Memorial Children's Hospital in Cape Town, South Africa from 1 January 2013 to 31 December 2013: pilot study

**A. NDONDO**

Hydatid disease of the spine; epilepsies in childhood; neurometabolic disorders; the ketogenic diet in the African context; Rett syndrome; optimal management of refractory status; non-polio enterovirus infections; childhood stroke

**P. NOURSE**

Peritoneal dialysis; glomerulonephritis including HIV; vasculitis

**J. NUTTALL**

Infants, children and adolescents with HIV infection and HIV/TB co-infection including early infant diagnosis; performance of HIV rapid tests in young children; drug dosing and pharmacokinetics; treatment failure and drug resistance; Antimicrobial stewardship

**R. PETERSEN**

Cerebral Palsy

**M.S. RABAN**

Neonatology

**V. RAMANJAM**

Phenotype, neuroimaging and neurocognitive characteristics of children with neurofibromatosis type 1; DAX1 mutation; investigating the prevalence, comorbidities and responses to different forms of medical therapy for children and adolescents with ADHD

**M. RICHARDS**

General and Developmental Paediatrics

**G. RIORDAN**

Paediatric epilepsy; mitochondrial disease and ADHD

**B. ROSSOUW**

Cardiac critical care: dilated cardiomyopathy; ALCAPA

**P. ROUX**

Early Childhood Development and psycho-social aspects of care for children and adolescents with HIV/AIDS

**S. SALIE**

Sepsis; HIV; fluid resuscitation and ventilation

**C. SCOTT**

Paediatric Systemic Lupus Erythematosus; Juvenile Idiopathic Arthritis; Fibrodysplasia Ossificans Progressiva; HIV Arthropathy; Juvenile Dermatomyositis and Children's Rights; Takayasu's Arteritis

**A. SPITAEELS**

Paediatric endocrinology, metabolism and diabetes; social circumstances, diabetes control, intersex

**C. THOMPSON**

Follow-up of the high risk infant; HIE and the effect of head cooling

**L. TOOKE**

Neonatal research especially congenital infections; HIV and the care of the VLBW

**A. VAN EYSSEN**

Bone marrow transplantation

**A. (NIKI) VAN NIEKERK**

Neonatology and Neonatal cardiology; congenital infections

**A. VANKER**

Indoor air pollution and tobacco smoke exposure and the effects on lung health; Determinants of childhood respiratory diseases

### **K. WALKER**

Sydenham's chorea: post streptococcal movement disorders; Point of care INR testing; Cardiac management of Duchenne's Muscular Dystrophy; HIV encephalopathy and HIV associated neurocognitive deficits in children; Use of Methylphenidate and management of ADHD in HIV

### **A.T. WESTWOOD**

Coordination of health services; quality of health care; epidemiology, cystic fibrosis; gastro-enteritis; management of acute diarrhoea; causes of death among children; health systems for children with long-term health conditions; policy perspectives on children with long term health conditions

### **P. WICOMB**

Medical Education

### **J. WILMSHURST**

Spinal muscular atrophy; muscular dystrophies; peripheral neuropathies; congenital myopathies; complex epilepsies in childhood; video telemetry in paediatric neurology practice; ketogenic diet in epilepsy; co-morbidities of children with epilepsy; genetics of children with epileptic encephalopathies; neurofibromatosis; guidelines for management of epilepsy disorders; tuberous sclerosis complex; neurological manifestations of HIV; child neurology training and service capacity in Africa

### **M. ZAMPOLI**

Childhood respiratory infections; HIV-associated lung disease; Cystic fibrosis; respiratory manifestations of neuromuscular disease and Sleep medicine

### **H. ZAR**

Childhood TB (specifically new diagnostic strategies), childhood pneumonia, HIV-associated lung disease; childhood asthma. Drakenstein child lung health study. Prof Zar directs the MRC Unit on Child and Adolescent Health and the Research Centre for Child & Adolescent Health (REACH), located at Red Cross Childrens Hospital

## **Contact Details**

Postal Address: Department of Paediatrics and Child Health, University of Cape Town, Red Cross Children's Hospital, Rondebosch, 7700  
Telephone: +27 21 658 5324 or +21 21 686 0086 (Research Coordinator: Geanine Hopley)  
Fax: +27 21 689 1287  
Email: [geanine.hopley@uct.ac.za](mailto:geanine.hopley@uct.ac.za)  
Website: <http://www.paediatrics.uct.ac.za>

# **Department of Paediatrics and Child Health**

## **Affiliated Disciplines**

## **Allied Health Sciences**

**Unit Representative: Sameer Rahim**

## **Department Structure**

**Manager [Head of Unit] of Allied Health Professionals: Dr Anthony Booyen**

HOD of each department:

- Dietetics: Shihaam Cader
- Occupational Therapy: Mereille Pursad
- Physiotherapy: Sameer Rahim
- Audiology: Colleen Cox
- Social Worker: Carla Brown
- Speech Therapy: Lezanne le Roux

## **Unit Profile**

The Unit of Associated Paediatric Disciplines is multi-disciplinary, including all the paediatric therapy professions of Physiotherapy, Occupational Therapy, Dietetics/Nutrition, Speech Therapy, Audiology and Social Work. The Division undertakes undergraduate and postgraduate teaching and training in all aspects of paediatric care, both acute and chronic. The Division is active in conducting research in Paediatric fields, often collaborating with members of other Divisions. The individual departments also run departmental weekly and monthly CPD programs accredited by UCT. The division is actively involved in assisting with the development of local and National guidelines and is a resource nationally and internationally for the expertise held within the division.

The division has presented at various local and international congresses. Sameer Rahim is currently the Secretary of the World Federation of Haemophilia Musculo-Skeletal Committee. The division also regularly hosts locally and nationally recognised



courses. Janine Verstraete lectures the 1<sup>st</sup> yr UCT Physiotherapy students. Mereille Pursad lectures 3<sup>rd</sup> year UWC students. The division is actively involved in supporting the training needs of all 3 Western Cape Universities by providing a clinical training platform. The division is involved in the training of the UCT Paediatric and Critical Nursing students, the dietetics department is also involved in the training of Nephrology nursing students. Shihaam Cader presented at the Critical Care Congress in July 2015.

## Unit Statistics

### Permanent and Long-Term Contract Staff (PGWC)

Permanent staff (Full time)	26
Community service	5
<b>Total</b>	<b>31</b>

### Students

Masters	3
Undergraduate students	95
Elective registered via UCT	2
Postgraduate students (nursing and allied health)	<b>±150</b>
APFP fellows	1
<b>Total</b>	<b>251</b>

*Physiotherapy had 1 APFP fellow for 6 months from Tanzania.*

## Research Fields and Staff

### LEZANNE LE ROUX (SPEECH THERAPY)

The Nature of Feeding and Swallowing Difficulties in the Paediatric Cerebral Palsy Population Who Have Had Videoflouroscopic Swallow Studies. (graduated June 2014)

### SHAFEEQAH NANA (SPEECH THERAPY)

Master's in Early Communication Intervention (course work)- Univ of Pretoria. (successfully completed, graduating April 2016)

### DES SCOTT (PHYSIOTHERAPY)

MSc Physiotherapy: The association between Health Related Quality of Life, Health Condition and Function in South African children. A pilot

study. (successfully completed, graduated 02 December 2015)

### JANINE VERSTRAETE (PHYSIOTHERAPY)

MSc Physiotherapy: Development of an English Health Related Quality of Life measure, for children under the age of 6, to be completed by proxy. (ongoing, currently upgrading to PhD)

### LIESELOTTE CORTEN (PHYSIOTHERAPY PHD STUDENT)

The use of Assisted Autogenic Drainage in children with acute respiratory disease in a developing country. (data collection completed); review and profile of patients admitted to RCWMCH with pneumonia.

### SHIHAAM CADER (DIETETICS)

[In collaboration with Edward Kija from Neurology] Bone metabolism abnormalities in children with Epilepsy at Red Cross War Memorial Children's Hospital, Cape Town South Africa.(commence 2014); co-author article with Dr Shrish Budree and Dr Liz Goddard infant feeding practices in a South African birth cohort – A longitudinal study.

### TRACY HARRIS HORLIN (AUDIOLOGY)

Masters in Public Health (University of Pretoria)

### MEREILLE PURSAD (OCCUPATIONAL THERAPY)

[in collaboration with Prof Alp Numanoglu, Prof Heinz Rode (Paed Surgery) and Nick Dankerlui, Karljin Blankers (research students, Erasmus University, Rotterdam, Holland)] The prevalence of post burn pruritus and a cross-cultural validation of an itch scale for children in a South African setting.

### DEBRA MILLIGAN (MSC THROUGH COMMONWEALTH, NOT UCT)

Wellbeing in Public Policy and International Development, University of Bath, United Kingdom

### ANRI HUMAN (PHYSIOTHERAPY PHD STUDENT)

The effect of mechanical insufflation-exsufflation and inspiratory muscle training on clinical outcomes and health-related quality of life in paediatric and adolescent patients with neuromuscular diseases presenting with respiratory muscle weakness: a multi-centre trial.

### BERNADETTE SAAYMAN (DIETETICS MSC)

# Department of Paediatrics and Child Health

## Affiliated Disciplines

### **DIVISION OF CHILD AND ADOLESCENT PSYCHIATRY, DEPARTMENT OF PSYCHIATRY AND MENTAL HEALTH**

**Head of Clinical Unit: Dr Wendy Vogel**

**Academic Lead: Professor Petrus de Vries**

## Unit Profile

The Division of Child & Adolescent Psychiatry (DCAP), is a subspecialty service in Child and Adolescent Psychiatry affiliated to Red Cross War Memorial Children's Hospital and UCT Department of Psychiatry and Mental Health. The division offers clinical services, teaching, training and research. DCAP therefore works in close collaboration between the departments of Psychiatry and Paediatrics. It is based at 46 Sawkins Road, Rondebosch. The clinical services are offered by three main units: an Outpatient Unit (including infant mental health and neuropsychiatry), a Consultation-Liaison Unit, and by the Therapeutic Learning Centre (TLC), an in-patient unit for children under 13 years. The outpatient services see children and adolescents under the age of 18 years with complex mental health problems. The Division is very active in training across disciplines, ranging from medical students, psychiatric registrars (M.Med) to advanced nursing students and clinical psychology interns. The Division offers a two-year M. Phil. (Child and Adolescent Psychiatry) degree, which leads to registration with the HPCSA as a sub-specialist in Child and Adolescent Psychiatry. In addition, staff members in the Division supervise candidates for postgraduate

degrees such as Master's and Doctoral degrees.

Research at DCAP is organised around five main themes:

- a) Centre for Autism in Africa – an interdisciplinary, inter-faculty research group with interest in building a research base for research about autism in Africa. Activities include tool development, translation, validation, training and implementation science approaches to interventions. In addition, the team is interested in use of technology, and in health/education systems for individuals with ASD. (Director: Prof Petrus de Vries).
- b) Adolescent Health Research Unit – a UCT-accredited research unit with specific focus on health and health promotion in adolescents. The AHRU has five key research themes that include sexual and reproductive health, adolescent mental health, intimate partner violence, abuse and bullying, and health systems research. Recent activities included a large-scale intervention trial of a school-based education programme to reduce risk behaviours and intimate partner violence in 12-14 year olds in the Western Cape Province (Director: Prof Petrus de Vries; Co-director: A/ Prof Cathy Mathews)
- c) Tuberous Sclerosis Complex Research Programme – an international research programme, specifically focusing on molecularly targeted treatments of TSC and the neuropsychiatry of TSC. Recent activities included development and validation of a checklist for the neuropsychiatric manifestations of the disorder (Lead: Prof Petrus de Vries).
- d) Infant Mental Health Programme – A developmental research programme of parent-infant mental health work focusing on mentalisation and mentalisation-based interventions for high-risk families (Lead: A/ Prof Astrid Berg)
- e) DCAP Research Development Programme – a staff research development programme. Activities include research development workshops, writing workshops and research capacity building in existing staff (Lead: Prof Petrus de Vries)

## Unit Statistics

### Joint Staff

Professor	1
Emeritus Professor	1
Emeritus Associate Professor	1
Senior Lecturers	7
Honorary Lecturers and Senior Lecturers	6
Administrative staff	1.1
<b>Total</b>	<b>17.1</b>

### Permanent Provincial and Trainee Staff

Provincial Staff	23
Senior Registrars	2
Junior Registrars	2
Intern Psychologists	1
<b>Total</b>	<b>28</b>

### Registered Students supervised by DCAP staff

MSc Med (Neurosci)	2
M.Med	1
M.Phil	3
PhD	5
Other degrees	2
<b>Total</b>	<b>13</b>

### Other Research Staff affiliated to DCAP

Associate Professor	1
Senior Lecturer	1
Postdoctoral Fellow	1
Senior Scientists	2
Research Officer	1
<b>Total</b>	<b>6</b>

## Contact Details

Postal Address: Division of Child and Adolescent Psychiatry, 46 Sawkins Road, Rondebosch, 7700

Telephone: +27 21 685 4103

Fax: +27 21 689 1343

Email: [dcap@westerncape.gov.za](mailto:dcap@westerncape.gov.za)

*Please refer to the Psychiatry and Mental Health Research Report for publications by members of the Division of Child and Adolescent Psychiatry.*

# Department of Paediatrics and Child Health

## Affiliated Disciplines

### CHILD HEALTH UNIT

Director: Rotating Acting Head

### Unit Profile

The Child Health Unit's mission is to contribute to promoting equity in child health. The core business of the Unit is directed at children's public health and community-oriented child health promotion, protection, care and rehabilitation.

The target of the Unit's endeavours is those areas, which have a strong children's public health and interdisciplinary focus, viz. child development and disability, community nutrition, infectious diseases and health policy and service development. The Unit has close links with the Children's Institute.

### Unit Statistics

#### Permanent and Long-Term Contract Staff

Specialist	2
Sub-specialist trainees	1
Senior Lecturers (part-time)	4
Lecturers	1
Administrative staff	1
<b>Total</b>	<b>9</b>

#### Emeritus Staff

Emeritus Professor (part-time)	2
--------------------------------	---

## Research Fields and Staff

### J. SHEA

Health promotion and education; the adaptation and piloting of a behavioural intervention to support HIV+ women in the core domains of health, mental health, parenting and HIV prevention for use by non-governmental organizations; an assessment of the feasibility of intervention trials on tuberculosis prevention in schools in the Western Cape Province; development of a certificate course in clinical research.

# Department of Paediatrics and Child Health

## Affiliated Disciplines

### CHILDREN'S INSTITUTE

**Director: Associate Professor Shanaaz Mathews**

### Institute Profile

The Children's Institute aims to contribute knowledge and understanding to promotion of policies which govern improvement of child well-being, and fulfillment of the rights of all South Africa's children, with special emphasis on children rendered vulnerable by a range of difficult circumstances. It addresses the needs and rights of South Africa's children through policy research, advocacy and education and other academic activities that contribute to improvement in the policy analysis, formulation, implementation and evaluation processes.

### Institute Statistics

#### Permanent and Long-Term Contract Staff

Professors	1
Senior Lecturers (Snr Researchers)	5
Lecturers (Researchers)	2
PASS (Administrative)	5
PASS (Scientific and Technical)	3
<b>Total</b>	<b>16</b>

#### Honorary Staff and Associates

Honorary Professor	1
Research Associate	1
<b>Total</b>	<b>2</b>

#### Students

PhD	1
Masters	1
Research intern	1
<b>Total</b>	<b>3</b>

### Research Fields and Staff

#### ASSOCIATE PROFESSOR SHANAAZ MATHEWS

Director; Children & violence, child protection, child abuse, gender policy, gender-based violence, evidence-based programming

#### PROFESSOR RIA REIS

Honorary Professor; Transgenerational transmission of inequality, participatory approaches, parenting

#### LIZETTE BERRY

Senior researcher; Social policy, early childhood development, child protection, child poverty

#### AISLINN DELANEY

Senior researcher; poverty and inequality, socio-economic rights, social assistance, child protection

#### KATHARINE HALL

Senior researcher; social policy, Child poverty and inequality, social grants, households and mobility, indicators

#### LUCY JAMIESON

Senior researcher; child protection, child rights, participatory democracy, governance, law reform and policy development

#### JENNA-LEE MARCO

Researcher; child rights, social policy, child safety and protection, youth development and psycho-social adjustment

#### PAULA PROUDLOCK

Programme manager; child rights, legislative review, law reform; democracy & governance, socio-economic rights for children

#### STEFANIE ROHRS

Senior researcher; child rights, law reform & policy development, children & violence, sexual & reproductive rights

#### WINNIE SAMBU

Researcher; Food and nutrition security, child nutritional outcomes, living conditions, urban environments, poverty

### **ZULFAH ALBERTYN**

Research assistant; Child mortality, injury, surveillance mechanisms, spatial modelling and sustainable development

### **BIRGIT WEYSS**

Research associate; human rights, governance, child indicators, spatial disparities, child budgets

## **Contact Details**

Postal Address: Children's Institute, University of Cape Town, 46 Sawkins Road, Rondebosch, 7700  
Telephone: +27 21 650 1473  
Fax: +27 21 650 1460  
Email: [info@ci.org.za](mailto:info@ci.org.za)  
Website: [www.ci.org.za](http://www.ci.org.za)

# **Department of Paediatrics and Child Health**

## **Affiliated Disciplines**

### **PAEDIATRIC ANAESTHESIA**

**Head of Unit: Dr Rob Nieuwveld**

## **Unit profile**

The Unit of Paediatric Anaesthesia at the Red Cross War Memorial Children's Hospital (RCWMCH) is a division of the Department of Anaesthesia at the University of Cape Town (UCT) and affiliated to the School of Child and Adolescent Health (SCAH), that is responsible for the provision of anaesthesia for all children, infants and neonates undergoing surgery or procedures at the RCWMCH and Maitland Cottage Children's Home. This unit also provides acute, chronic and palliative pain care services for the children at this hospital, as well as providing input into the Paediatric Intensive Care services. The Paediatric Pain Team is a multidisciplinary group that falls under Paediatric Anaesthesia, run by Sister Angeline Schrikker. These include the resident Anaesthesia specialists and a number of other volunteers from nursing, child and family psychotherapists, child life specialists, aromatherapy, physiotherapy, and art therapy.

## **Staffing**

The head of this clinical unit is Dr Rob Nieuwveld, with the following fulltime paediatric anaesthesia specialists: Dr Graeme Wilson, Dr Rebecca Gray, Dr Karmen Kemp, Dr Kotie Bester and Dr Heidi Meyer. Another three fulltime specialists rotate on a regular basis between Groote Schuur Hospital, Maitland Cottage Home and RCWMCH. There are 5 positions for registrars in training at RCWMCH.

In addition to teaching, training and lecturing at both undergraduate and postgraduate levels, members of the department have lectured nationally and internationally. They also teach and train members of other disciplines which include paramedics, nurses, surgeons, pharmacists, emergency medicine trainees and family medicine practitioners. Dr Meyer and Dr Myburgh also teach on APLS courses.

Ms Melissa Williams provides much-needed administrative assistance to all members of this division. This has made a considerable difference to the efficient functioning of our paediatric anaesthetic faculty.

## Unit statistics

### Permanent and long term Contract Staff

Head of Clinical Unit	1
Specialists	8
Registrars	5
Administrative assistant	1
<b>Total</b>	<b>15</b>

### Emeritus and other Staff

Emeritus Associate Professor	1
Part-time Specialists	5
Supernumerary Specialists / Registrars	2
<b>Total</b>	<b>8</b>

## Research Fields and Staff

### EMERITUS ASSOCIATE PROFESSOR JENNY THOMAS

Acute and chronic pain management, palliative care, analgesia and sedation, burns, conjoined twins, paediatric trauma and orthopaedics, HIV and Aids, transplantation, neonatal anaesthesia and pain, general paediatric surgery, peri-operative behavioural disorders, paediatric peri-operative audits of deaths and critical adverse event reporting

### ROB NIEUWVELD

Anaesthesia safety, equipment, undergraduate teaching

### GRAEME WILSON

Paediatric pharmacology, total intravenous anaesthesia techniques, target-controlled anaesthesia, cardiothoracic anaesthesia

### REBECCA GRAY

Simulation in paediatrics and anaesthesia, Transfusion medicine, vascular access, premature infants, ultrasound applications, cardiacs, general paediatric surgery and burns

### KARMEN KEMP

Cardiac anaesthesia, childhood malignancies, general surgery, teaching, regional anaesthesia and pain medicine

### KOTIE BESTER

Ultrasound and echocardiography applications in paediatric anaesthesia, modalities for analgesia and sedation, interventional radiology and MRI

### HEIDI MEYER

Morbidity and mortality in anaesthesia, regional anaesthesia, neonatal surgery, spinal and orthopaedic surgery, analgesia and sedation techniques for children

Supernumerary fellowships in paediatric anaesthesia have been running for a number of years and three Kenyan anaesthetists have trained here, with another anaesthesiologist from Kenya commencing in 2016, as well as numerous South Africans.

Funding is being sought to ensure sustainability for this training in paediatric anaesthesia.

A number of private paediatric anaesthetists do sessions at RCWMCH and Maitland Cottage Hospital, and these include Prof Jenny Thomas. Drs Anthony Aubin, Tony Butt, Patrick Purcell, Nicky Stilwell and Lance Thompson.

## Contact Details

Postal address: Division of Paediatric Anaesthesia, Red Cross War Memorial Children's Hospital, Klipfontein Road, Rondebosch, 7700, Cape Town, South Africa.

Telephone: +27 21 658 5183

Email: [melissa.williams@uct.ac.za](mailto:melissa.williams@uct.ac.za)

Website: <http://www.anaesthesia.uct.ac.za/division-paediatric-anaesthesia>

*Research Output – Refer to the Department of Anaesthesia*

# Department of Paediatrics and Child Health

## Affiliated Disciplines

### PAEDIATRIC DERMATOLOGY

Head of Unit: Dr Carol Hlela

#### Unit profile

Dr Carol Hlela is the Head of Paediatric Dermatology at Red Cross Hospital and managing of Adult inpatients and outpatients with varied skin conditions. She is the division's only consultant that runs the clinical service and is assisted by dermatology registrars from Groote Schuur Hospital for two clinics a week and also two sisters of Red Cross Hospital.

#### Current Studies

She completed 1. conducting a clinical trial at Red Cross entitled: Accessible and Affordable Moisturizers for Atopic Eczema, the 3AM Atopic Eczema Study. The aim of which is to find easily accessible moisturizers with a view to replace the standard of care regime. The intention of which is to empower patients and reduce the dependence on the health sector for moisturisers. Further completed research include: 2. Prevalence of HTLV-1 infection amongst blood donors in South Africa. Carol Hlela, Wendy Sykes, Marion Vermeulen, Edward Murphy. A collaborative project with the South African National Blood Services (SANBS).

3. Epidemiology of HTLV-1 infection in South Africa, the forgotten epidemic. Carol Hlela, Maia Lesosky, Diane Hardie, Ravi Moodley, Edward Murphy. A project conducted in partnership with the national health services laboratory (NHLS). She is also currently conducting her own research in the following areas:

Formulating a National Multicentre Registry of Infective Dermatitis Associated with HTLV-1 (IDH), a collaborative project with the South African Dermatology Society of SA.

## Student Supervision

1. Nonhlanhla Lunjani: Department of Dermatology. University of Cape Town. Project title: Mechanisms of Eczema and Allergy Development in Xhosa children
2. Nare Rakgole, PhD student-Virology Department, Sefako Makgatho Health Sciences University. Project title: Human T-cell lymphotropic virus type 1 (HTLV-1) -associated infective dermatitis (IDH) and the risk of adult T cell leukaemia/lymphoma (ATLL)

## Project collaborations are with:

Prof Mike Levin from the Department of Allergy, University of Cape Town and the Switzerland based group of investigators including Drs. Akdis, Schmid-Grendelmeier and Weibel working on the research project entitled- Mechanisms of the Development of Allergy (SOS-ALL), which will aim to generate novel knowledge on the origin of the epidemic of IgE-associated allergic diseases, particularly mechanisms of initiation of allergy to propose early diagnosis, prevention and targets for therapy.



# Department of Paediatrics and Child Health

## Affiliated Disciplines

### PAEDIATRIC NUCLEAR MEDICINE

Head of Unit: Dr Anita Brink

### Unit Profile

The Paediatric Nuclear Medicine Service is part of the Department of Paediatric and Child Health. It provides the Nuclear Medicine investigations and therapy for all neonates and children being treated in facilities associated with UCT and supports State and Private Health Care facilities in the Western Cape and other provinces which do not have a dedicated Paediatric Nuclear Medicine Service. In addition, staff actively participate in the Division of Nuclear Medicine at Groote Schuur Hospital.

Registrars from a number of institutions spend time at the Children's Hospital as part of their training, as do radiography students from Groote Schuur Hospital. Other activities include participation in International Congresses and the College of Nuclear Physicians.

### Unit Statistics

#### Permanent and Long-Term Contract Staff

Senior specialist	1
-------------------	---

#### Emeritus Staff

Part-time specialist / Emeritus Associate Professor	1
---	---

#### Students

Registrars	1
------------	---

## Research fields

Renal scintigraphy, "milk" scans in gastro-intestinal motility disorders, limb perfusion in children with vascular compromise due to infection or burns, PET/CT applications in children, and brain perfusion scintigraphy.

## Contact Details

Postal Address: Paediatric Nuclear Medicine, School of Child and Adolescent Health, University of Cape Town, Red Cross War Memorial Children's Hospital, Klipfontein Road, Rondebosch, 7700, Cape Town, South Africa.

Telephone/Fax: +27 21 658 5367

Website: <http://www.paediatrics.uct.ac.za/scah/clinicalservices/other/nuclear>

# Department of Paediatrics and Child Health

## Affiliated Disciplines

### PAEDIATRIC PATHOLOGY

**Head of Histopathology Unit:  
Associate Professor Komala Pillay**

### Unit profile

The Unit of Paediatric Pathology is primarily an NHLS laboratory service unit to Red Cross Children's Hospital and provides paediatric and neonatal services to other Western Cape Health Care Institutions. The pathology service functions as an amalgam of three sub units comprising: Anatomical Pathology, Chemical Pathology and Haematology. Undergraduate teaching activities are largely undertaken through equivalent disciplines at Groote Schuur Hospital and the Medical School of the University of Cape Town to medical and physiotherapy students. Postgraduate teaching is undertaken to MPhil (Paediatric Pathology), MMed (in all the pathology disciplines), and MSc and PhD students at UCT. Research activities are related to laboratory aspects of child health and molecular mechanisms underlying paediatric disease. Research also undertaken through collaborative projects with clinical colleagues, mainly in paediatrics and paediatric surgery.

### Unit Statistics

#### Permanent and Long-Term Contract Staff

Associate Professors	2
Lecturer	1
NHLS Staff	40
<b>Total</b>	<b>43</b>

### Students

Registrars	<b>3</b>
------------	----------

### Research Fields and Staff

#### DR LEE-ANNE PHILLIPS

Molecular genetics of paediatric leukaemias and neuroblastomas; paediatric myelodysplastic syndromes; haemophagocytic lymphohistiocytosis.

#### ASSOCIATE PROFESSOR KOMALA PILLAY

Pathology of skeletal muscle; brain tumours; lymphomas.

#### ASSOCIATE PROFESSOR GEORGE VAN DER WATT

Inherited metabolic disorders.

### Contact Details

Postal Address: Paediatric Pathology, School of Child and Adolescent Health,  
University of Cape Town, Red Cross Children's Hospital, Klipfontein Rd, Rondebosch, 7700  
Telephone: +27 21 658 5209  
Fax: +27 21 658 5206  
Email: [komala.pillay@uct.ac.za](mailto:komala.pillay@uct.ac.za)  
Website: <http://www.paediatrics.uct.ac.za/scah/clinicalservices/other/pathology>

# Department of Paediatrics and Child Health

## Affiliated Disciplines

### PAEDIATRIC RADIOLOGY

Head of Unit: Dr Tracy Kilborn

#### Unit Profile

A clinical radiology department providing imaging to all divisions in the School, performing a total of approximately 40,000 examinations per annum. Imaging modalities include plain-film radiography, computed and digital radiography, digital fluoroscopy, ultrasound (including Doppler), computerised tomography (CT), magnetic resonance imaging (MRI), angiography and interventional radiology. The Division conducts a Postgraduate teaching program for three registrars registered for the M.Med (Diagnostic Radiology) at the University of Cape Town on an ongoing rotational basis and for one registrar registered at the University of Stellenbosch. An undergraduate lecture series in paediatric radiology is provided at 5<sup>th</sup> year level. Training in paediatric sonography is conducted for B.Tech (Ultrasound) students of the Cape Peninsula University of Technology.

In addition, the Division offers an annual Paediatric Radiology Fellowship, providing further training in the discipline for qualified radiologists. Fellows are registered for the University's Postgraduate Diploma in Paediatric Radiology.

#### Unit Statistics

##### Permanent and Long-Term Contract Staff

Lecturers	3
Radiographers and Aux. Staff	30
<b>Total</b>	<b>33</b>

##### Students and Postdoctoral Fellows

Registrars/Masters	4
Postdoctoral Fellow	1
<b>Total</b>	<b>5</b>

## Research Fields and Staff

#### T. KILBORN

Oncology, Neuro-imaging, HIV and TB, Pulmonary Imaging, Gastrointestinal

#### N. WIESELTHALER

Neuro-imaging; Orthopaedic imaging; Interventional Radiology

#### E. BANDERKER

Cardiac and Chest imaging, Orthopaedics, Imaging in Trauma

## Contact Details

Postal Address: Paediatric Radiology, School of Child and Adolescent Health, University of Cape Town, Red Cross Children's Hospital, Klipfontein Rd, Rondebosch, 7700

Telephone: +27 21 658 5104

Fax: +27 21 658 5101

*Please refer to the Department of Radiation Medicine Research Report for publications by members of the Division of Paediatric Radiology.*

# Department of Paediatrics and Child Health

## Affiliated Disciplines

### PAEDIATRIC SURGERY

**Head of Unit: Professor Alp Numanoglu**

### Unit Profile

The department functions as a tertiary and quaternary health care centre for paediatric surgery for the University of Cape Town and the Red Cross War Memorial Children's Hospital. The department is a national/international centre for postgraduate paediatric surgical career development and is accredited with the HPCSA.

An extensive surgical outreach programme is in existence primarily to improve the surgical care of children at secondary and primary health care levels. The division is regarded as a national centre for minimally invasive surgery, surgical skills training, trauma, organ transplantation, specialized hepatobiliary surgery, oncology and burn care in children and for the separation of conjoined twins.

Research is being conducted in the department into a wide variety of aspects of paediatric surgical practice including gastrointestinal surgery, minimal invasive surgery, surgical skills training, trauma care and prevention, liver and renal transplantation, renovascular hypertension, burns management, pain assessment and management, conjoined twins and common diseases of Africa including tuberculosis and HIV/AIDS.

## Unit Statistics

### Permanent and Long-Term Contract Staff

Professor	3
Head of Clinical Unit	1
Senior Lecturers	1
Career Paediatric Surgical Registrars	4
African Fellowship Training Programme	1
Karl Storz Fellowship Programme	1
Research Technologists / Social Worker	2
Administrative staff	2
<b>Total</b>	<b>15</b>

### Emeritus and Adjunct Staff

Emeritus Professor	2
Adjunct Professor	1
<b>Total</b>	<b>3</b>

### Students

Masters	5
Undergraduate	385
<b>Total</b>	<b>390</b>

## Research Fields and Staff

### PROFESSOR A. NUMANOGLU

Minimal invasive surgery; transplantation; HIV/AIDS and diseases of the gastro-intestinal tract; teaching with technology; web based outreach; neonatal surgery

### DR S. COX

Burns; surgical aspects of necrotising enterocolitis and other childhood general surgical conditions; Intussusception; surgical oncology; surgical neonatal outcomes

### PROFESSOR A.B. VAN AS

Traumatology; child accident prevention; vascular injuries

### **PROFESSOR A.J.W. MILLAR**

Biliary atresia, choledochal cysts, liver transplantation, renovascular hypertension, non-transplant surgery for short bowel syndrome, oesophageal replacement with colon, hepatoblastoma, bilateral Wilms' tumour, surgical management of intestinal failure

### **EMERITUS PROFESSOR H. RODE**

Burn and nutrition research; short bowel syndrome; HIV/AIDS; oncology and trauma

### **ADJUNCT PROFESSOR R.A. BROWN**

Gastrointestinal surgery; surgical endoscopy; constipation and gastro-intestinal polyposis

### **DR D. VON DELFT**

Laparoscopic & single port endoscopic surgery; thoracic surgery; surgical device development

### **DR R. ALBERTYN**

Paediatric pain; rehabilitation and HIV/AIDS; web-based education

### **J. RAAD**

Manometry and gastro-enterology

## **Contact Details**

Postal Address: Division of Paediatric Surgery,  
School of Child and Adolescent Health, University  
of Cape Town, Red Cross War Memorial Children's  
Hospital, Rondebosch, 7700  
Telephone: +27 21 658 5012  
Fax: +27 21 685 6632  
Email: [Noorunisa.Vollenhoven@uct.ac.za](mailto:Noorunisa.Vollenhoven@uct.ac.za)  
Website: <http://www.surgicalskills.co.za>; <http://www.paediatrics.uct.ac.za/scah/clinicalservices/surgical/surgery>

# **Department of Paediatrics and Child Health**

## **Affiliated Disciplines**

## **POISONS CENTRE**

**Head of Unit: Dr Cindy Stephen**

## **Unit Profile**

The Poisons Information Centre (PIC) develops, maintains and distributes the AfriTox poisons information database designed to help clinicians in Southern Africa treat poisoned adults and children. All types of potentially toxic substances are included, with a particular accent on local South African trade names and natural toxins. The treatment protocols are tailored for the South African context. AfriTox is used in over forty state hospitals countrywide, and by both the poisons centres at Tygerberg Hospital and in Bloemfontein as the basis for poisons advice given to health workers and the public. It is also distributed to centres in Botswana, Ethiopia, Kenya, Mozambique, Zambia and Zimbabwe, as well as more recently in Dubai. AfriTox is also used by doctors on smart phones, tablets and laptops.

The Poisons Information Helpline of the Western Cape was launched on 1 June 2015 as a combined telephone service provided by staff at the Red Cross Hospital and Tygerberg Hospital PICs. This telephone service is available 24/7 to both healthcare workers and members of the public. It is answered by staff specialised in toxicology at both the Red Cross and Tygerberg Poisons Information Centres. Data from telephone calls are collected in the custom-designed TeleLog database which is based on AfriTox.

The PIC also collects clinical data on all children seen at Red Cross Children's Hospital with known or suspected poisoning into an Access-based Clinical Database.

## Unit Statistics

### Permanent Staff

Medical officers (one full time, one 5/8 <sup>th</sup> )	2
Pharmacists (one full time, one 5/8 <sup>th</sup> )	2
Administrative Assistant	1
<b>Total</b>	<b>5</b>

## Research Fields and Staff

All staff members are involved in data collection.

Dr Cindy Stephen is responsible for the TeleLog database and Dr Kate Balme for the Clinical Database.

## Contact Details

Postal Address: Poisons Information Centre, School of Child and Adolescent Health, University of Cape Town, Red Cross Children's Hospital, Klipfontein Rd, Rondebosch, 7700

Telephone: +27 21 658 5308

Fax: +27 21 658 5331

Email: [poisonsinformation@uct.ac.za](mailto:poisonsinformation@uct.ac.za)

Website: [www.afritox.co.za](http://www.afritox.co.za)

# Department of Paediatrics and Child Health

## Affiliated Disciplines

## SOUTH AFRICAN TUBERCULOSIS VACCINE INITIATIVE (SATVI)

**Head of Unit: Associate Professor Mark Hatherill**

## Unit Profile

The South African Tuberculosis Vaccine Initiative (SATVI), established in 2001, has developed into a world-class TB vaccine research group. State of the art immunology laboratories are located within the Institute of Infectious Disease and Molecular Medicine (IDM), and clinical research and community outreach projects are based at the SATVI field site located at Brewelskloof TB Hospital in Worcester.

## Clinical Research

During 2015 the SATVI clinical and laboratory teams completed three Phase 1-2 trials of novel TB vaccines in adult and infant study populations; finished enrolment in two large Phase 2 TB vaccine trials, including a proof of concept efficacy trial of the GSK M72 candidate vaccine in TB-infected adults and a Prevention of Infection (POI) trial of the Sanofi H4 candidate vaccine and BCG in adolescents; and started recruitment for clinical trials of a recombinant BCG vaccine (VPM-1002) in newborns; a live attenuated Mycobacterium tuberculosis vaccine (MTBVAC) in adults and infants; and an adjuvanted subunit vaccine (ID93+GLA-SE) in recently treated TB patients.

We have made a concerted effort to diversify our TB research portfolio. After a lengthy preparation period, we enrolled our first participants into an AIDS Clinical Trial Group (ACTG) household contact study of multidrug-resistant TB patients. The study marks the first of several TB diagnostic and therapeutic studies in the SATVI pipeline.

The year ended on a high note, with the award of a multi-million dollar grant for a clinical trial that will test a screen and treat strategy to target preventive therapy for persons with a transcriptomic signature of risk for TB disease. CORTIS (The Correlate of Risk Targeted Intervention Study) will start in mid-2016. We also led a successful application to a joint SAMRC-NIAID call to establish the Clinical Research Unit for Advancement of Tuberculosis Biomarker-Targeted Interventions, part of the new RePORT SA network.

In 2015 we bade farewell to Dr Zameer Brey, who joined the Bill & Melinda Gates Foundation, and welcomed Dr Masooda Kaskar, who joined us from Novartis as the Chief Operations Officer.

**Research output:** 28 papers published

## Awards, Prizes and Scholarships

Associate Professor Tom Scriba, Full Membership of the Institute of Infectious Disease and Molecular Medicine.

Dr Elisa Nemes, Senior Research Officer, selected for the International Society for the Advancement of Cytometry (ISAC) Scholars Program.

Dr Angelique Luabeya, Principal Investigator, awarded an European & Developing Countries Clinical Trials Partnership -TDR Clinical Research Fellowship.

## Unit Statistics

### Permanent and Long-Term Contract Staff

Permanent staff	69
Fixed term contract staff	41
<b>Total</b>	<b>110</b>

*(Academic staff 8; PASS staff 102)*

### Students and Postdoctoral Fellows

BSc	1
Masters	6
Doctoral	2
Postdoctoral Fellows	8
<b>Total</b>	<b>17</b>

## Research Fields and Staff

### Research Staff

#### ASSOCIATE PROFESSOR MARK HATHERILL - DIRECTOR SATVI

TB vaccine development and testing; Epidemiology and diagnosis of TB in infants, adolescents and adults.

#### ASSOCIATE PROFESSOR THOMAS SCRIBA - DEPUTY DIRECTOR SATVI

Immunopathogenesis studies; TB vaccine development and testing; Correlates of risk of TB in infants and adolescents; adolescents and adults; Assay development.

#### DR HENNIE GELDENHUYS

TB vaccine development and testing, including novel administration of vaccines; Epidemiology and diagnosis of TB in infants, adolescents and adults.

#### DR ANGELIQUE LUABEYA

TB vaccine development and testing; Epidemiology and diagnosis of TB in infants, adolescents and adults.

#### DR MICHELE TAMERIS

TB vaccine development and testing; Epidemiology and diagnosis of TB in infants and adolescents; Drama as a vehicle for communicating research technology.

#### DR JUSTIN SHENJE

TB vaccine development and testing; Epidemiology and diagnosis of TB in infants, adolescents and adults.

#### DR ELISA NEMES

TB vaccine development and testing; Correlates of risk of TB disease in infants; Immunopathogenesis of TB and of TB/BCG/IRIS in infants, adolescents and adults.

#### DR ADAM PENN-NICHOLSON

TB vaccine development and testing; Correlates of risk of TB disease in adolescents; Assay development.

#### DR HELEN MEARNES

Analysis of immune responses to novel vaccine strategies against TB.

#### DR SARA SULIMAN

TB vaccine development and testing; Correlates of risk of TB disease in adolescents; Assay development.

#### DR VIRGINIE ROZOT

TB vaccine development and testing; Correlates of risk of TB disease in infants; Immunopathogenesis of TB and of TB/BCG/IRIS in infants, adolescents and adults.

## DR MBANDI KIMBUNG

Correlates of risk of TB disease.

## Contact Details

Postal Address: South African Tuberculosis Vaccine Initiative (SATVI), Wernher and Beit Building South, Anzio Road, Observatory 7925  
Telephone: +27 21 406 6791  
Fax: +27 21 406 6693  
Email: [kelvin.vollenhoven@uct.ac.za](mailto:kelvin.vollenhoven@uct.ac.za);  
[a.september@uct.ac.za](mailto:a.september@uct.ac.za)  
Website: <http://www.satvi.uct.ac.za>

## RESEARCH OUTPUT

### Edited books

De Lannoy, A.M.F.A., Swartz, S., Lake, L. and Smith, C. (eds) 2015. *South African Child Gauge 2015*. 136pp. Cape Town: Children's Institute – University of Cape Town. ISBN 9780799225259.

Morrow, B. and van Aswegen, H. (eds) 2015. *Cardiopulmonary Physiotherapy in Trauma: An Evidence-based Approach*. 558pp. London: Imperial College Press. ISBN 9781783266517.

Proudlock, P.M. (ed) 2015. *South Africa's Progress in Realising Children's Rights: A Law Review*. 251pp. Cape Town: Children's Institute, University of Cape Town. ISBN 9780799225044.

### Chapters in books

Argent, A.C. 2015. Basic and practically useful respiratory monitoring of a mechanically ventilated patient in resource-limited countries. In P. C. Rimensberger (ed), *Pediatric and Neonatal Mechanical Ventilation*, pp. 491-499. Berlin: Springer Berlin Heidelberg. ISBN 9783642012198.

Argent, A.C. and Kisson, N. 2015. Mechanical ventilation in infection, sepsis and organ failure. In P. C. Rimensberger (ed), *Pediatric and Neonatal Mechanical Ventilation*, pp. 1369-1384. Berlin: Springer Berlin Heidelberg. ISBN 9783642012198.

Argent, A.C. and Kisson, N. 2015. Critical care for children in low- and middle-income countries: issues barriers and opportunities. In S. MacLeod, S. Hill, G. Koren and A. Rane (eds), *Optimizing Treatment for Children in the Developing World*, pp. 265-278. Switzerland: Springer International Publishing Switzerland. ISBN 9783319157498.

Berry, L.M. and Proudlock, P.M. 2014. Children's rights to basic nutrition: a review of South Africa's subsidy for ECD programmes. In P. Proudlock (ed), *South Africa's Progress in Realising Children's Rights: A Law Review*, pp. 37-58. Cape Town: Children's Institute, University of Cape Town. ISBN 9780799225044.

De Lannoy, A.M.F.A. and Swartz, S. 2015. "You don't want to die. You want to reach your goals": alternative voices among young black men in urban South Africa. In J. Parkes (eds), *Gender Violence in Poverty Contexts. The Educational Challenge*, pp.148-174. UK: Routledge, Taylor and Francis Ltd. ISBN 9780415712491.

Eley, B.S. and Besser, M. 2015. Primary immunodeficiency diseases. In D.F. Wittenberg (ed), *Coovadia's Paediatrics & Child Health*, pp. 433-447. 6<sup>th</sup> edition. South Africa: Oxford University Press Southern Africa. ISBN 9780195988437.

Grotte, R.H. 2014. Disorders of the Eye. In D.F. Wittenberg (ed), *Coovadia's Paediatrics & Child Health*, pp. 748-757. 6<sup>th</sup> edition. South Africa: Oxford University Press Southern Africa. ISBN 9780195988437.

Hall, K., Ebrahim, A., De Lannoy, A.M.F.A. and Makiwane, M. 2015. Youth and mobility: linking movement to opportunity. In A. De Lannoy, S. Swartz, L. Lake and C. Smith (eds), *South African Child Gauge 2015*, pp. 75-82. Cape Town: Children's Institute – University of Cape Town. ISBN 9780799225259.

Hampshire, K., Porter, G., Owusu, S.A., Mariwah, S., Abane, A., Robson, E., Munthali, A., De Lannoy, A.M.F.A., Bango, A., Gunguluza, N. and Milner, J. 2015. Informal m-health: how are young people using mobile phones to bridge healthcare gaps in Sub-Saharan Africa? *Social Science & Medicine*, 142: 90-99.

Hanekom, S., Wilson, M., Morrow, B. and van Aswegen, H. 2015. Burn injuries. In H. van Aswegen and B. Morrow (eds), *Cardiopulmonary Physiotherapy in Trauma: An Evidence-based Approach*, pp. 229-308. London: Imperial College Press. ISBN 9781783266517.

Jamieson, L. 2014. Children's rights to appropriate alternative care when removed from the family environment: A review of South Africa's child and youth care centres. In P. Proudlock (ed), *South Africa's Progress in Realising Children's Rights: A Law Review*, pp. 213-251. Cape Town: Children's Institute, University of Cape Town. ISBN 9780799225044.

Jamieson, L., Du Toit, C. and Jobson, J. 2015. Legislative and policy developments 2014/2015. In A. De Lannoy, S. Swartz, L. Lake and C. Smith (eds), *South African Child Gauge 2015*, pp. 12-17. Cape Town: Children's Institute – University of Cape Town. ISBN 9780799225259.



- Kumar, P. and Argent, A.C. 2015. Rational use of adjunctive therapies: efficacy and efficiency. In P. C. Rimensberger (ed), *Pediatric and Neonatal Mechanical Ventilation*, pp. 887-914. Berlin: Springer Berlin Heidelberg. ISBN 9783642012198.
- Martin, P., Proudlock, P.M. and Berry, L.M. 2014. The rights of children with disabilities to social assistance: a review of South Africa's Care Dependency Grant. In P. Proudlock (ed), *South Africa's Progress in Realising Children's Rights: A Law Review*, pp. 84-98. Cape Town: Children's Institute, University of Cape Town. ISBN 9780799225044.
- Morrow, B. and Argent, A.C. 2015. Respiratory physiotherapy and endotracheal suctioning during mechanical ventilation. In P.C. Rimensberger (ed), *Pediatric and Neonatal Mechanical Ventilation*, pp. 687-710. Berlin: Springer Berlin Heidelberg. ISBN 9783642012198.
- Morrow, B. 2015. Not just 'small adults': paediatric anatomy and physiology in relation to trauma. In H. van Aswegen and B. Morrow (eds), *Cardiopulmonary Physiotherapy in Trauma: An Evidence-based Approach*, pp. 29-46. London: Imperial College Press. ISBN 9781783266517.
- Morrow, B. and van Aswegen, H. 2015. Physiotherapy modalities, markers and outcome measures. In H. van Aswegen and B. Morrow (eds), *Cardiopulmonary Physiotherapy in Trauma: An Evidence-based Approach*, pp. 65-149. London: Imperial College Press. ISBN 9781783266517.
- Mudzi, W., van Aswegen, H. and Morrow, B. 2015. Spinal cord injury. In H. van Aswegen and B. Morrow (eds), *Cardiopulmonary Physiotherapy in Trauma: An Evidence-based Approach*, pp. 371-452. London: Imperial College Press. ISBN 9781783266517.
- Nel, E., Cooke, M.L. and Goddard, E. 2015. Gastrointestinal disorders. In D.F. Wittenberg (ed), *Coovadia's Paediatrics & Child Health*, pp. 511-537. 6<sup>th</sup> edition. South Africa: Oxford University Press Southern Africa. ISBN 9780195988437.
- Pick, W., Jacobs, M. and Buthelezi, G. 2015. Human resources for universal health coverage. In M. P. Matsoso, R. J. Fryatt and G. Andrews (eds), *The South African Health Reforms 2009-2014: Moving towards universal coverage*, pp. 160-180. Cape Town: Juta. ISBN 978 1485110606.
- Plani, N., van Aswegen, H. and Morrow, B. 2015. Multiple orthopaedic injuries. In H. van Aswegen and B. Morrow (eds), *Cardiopulmonary Physiotherapy in Trauma: An Evidence-based Approach*, pp. 309-370. London: Imperial College Press. ISBN 9781783266517.
- Proudlock, P.M. and Martin, P. 2014. Children's right to birth registration: a review of South African law. In P. Proudlock (ed), *South Africa's Progress in Realising Children's Rights: A Law Review*, pp. 7-36. Cape Town: Children's Institute, University of Cape Town. ISBN 9780799225044.
- Proudlock, P.M., Mathews, S. and Jamieson, L. 2014. Children's rights to be protected from violence: a review of South Africa's laws and policies. In P. Proudlock (ed), *South Africa's Progress in Realising Children's Rights: A Law Review*, pp. 166-212. Cape Town: Children's Institute, University of Cape Town. ISBN 9780799225044.
- Proudlock, P.M. and Martin, P. 2014. South Africa's Progress towards realising children's rights: a law review. In P. Proudlock (ed), *South Africa's Progress in Realising Children's Rights: A Law Review*, pp. 7-36. Cape Town: Children's Institute, University of Cape Town. ISBN 9780799225044.
- Roos, R., Morrow, B. and van Aswegen, H. 2015. Traumatic brain injury. In H. van Aswegen and B. Morrow (eds), *Cardiopulmonary Physiotherapy in Trauma: An Evidence-based Approach*, pp. 453-510. London: Imperial College Press. ISBN 9781783266517.
- Scott, C. 2014. Connective tissue disorders. In D.F. Wittenberg (ed), *Coovadia's Paediatrics & Child Health*, pp. 448-467. 6<sup>th</sup> edition. South Africa: Oxford University Press Southern Africa. ISBN 9780195988437.
- Swingler, G.H. and Richards, M. 2014. History-taking, physical examination and evaluation of the sick child. In D.F. Wittenberg (ed), *Coovadia's Paediatrics & Child Health*, pp. 3-15. 6<sup>th</sup> edition. South Africa: Oxford University Press Southern Africa. ISBN 9780195988437.
- van Aswegen, H., Morrow, B. and van Aswegen, E. 2015. Blunt and penetrating injuries. In H. van Aswegen and B. Morrow (eds), *Cardiopulmonary Physiotherapy in Trauma: An Evidence-based Approach*, pp. 151-228. London: Imperial College Press. ISBN 9781783266517.
- van Aswegen, H. and Morrow, B. 2015. Trauma and immunosuppressive diseases. In H. van Aswegen and B. Morrow (eds), *Cardiopulmonary Physiotherapy in Trauma: An Evidence-based Approach*, pp. 47-64. London: Imperial College Press. ISBN 9781783266517.
- Wilmshurst, J., Ciarlini, P.D.S.C. and De Girolami, U. 2015. Nerve biopsy. In B.T. Darras, H.R. Jones Jr, M.M. Ryan and D.C. De Vivo (eds), *Neuromuscular Disorders of Infancy, Childhood, and Adolescence: A Clinician's Approach*, pp. 66-81. 2<sup>nd</sup> edition. United Kingdom: Academic Press. ISBN 9780124170445.
- Wilmshurst, J. and Ouvrier, R. 2015. Neuropathies secondary to systemic disorders. In B.T. Darras, H.R. Jones Jr, M.M. Ryan and D.C. De Vivo (eds),

Neuromuscular Disorders of Infancy, Childhood, and Adolescence: A Clinician's Approach, pp. 418-430. 2<sup>nd</sup> edition. United Kingdom: Academic Press. ISBN 9780124170445.

Wilmshurst, J. and Cross, J.H. 2015. Optimizing treatment for neonatal and infantile seizures. Do guidelines have a role in management? In S.L. Moshe, J.H. Cross, J. de Bellescize, L. de Vries, D. Nordli, and F. Vigevano (eds), *Seizures and Syndromes of Onset in the Two First Years of Life: Progress in Epileptic Disorders*, pp. 249-267. France: John Libbey Eurotext Ltd. ISBN 9782742013975.

## Articles in peer-reviewed journals

Ackermann, S. and Wilmshurst, J. 2015. Medical management of children with epilepsy. *Minerva Pediatrica*, 67: 47-74.

Adekambi, T., Ibegbu, C.C., Cagle, S., Kalokhe, A.S., Wang, Y.F., Hu, Y., Day, C., Ray, S.M. and Rengarajan, J. 2015. Biomarkers on patient T cells diagnose active tuberculosis and monitor treatment response. *Journal of Clinical Investigation*, 125(5): 1827-1838.

Ahrens, J., Morrow, B. and Argent, A.C. 2015. Influenza A(H1N1)pdm09 in critically ill children admitted to a paediatric intensive care unit, South Africa. *Southern African Journal of Critical Care*, 31(1): 4-7.

Albertyn, R., Berg, A., Numanoglu, A. and Rode, H. 2015. Traditional burn care in sub-Saharan Africa: a long history with wide acceptance. *Burns*, 41: 203-211.

Andrews, J.R., Hatherill, M., Mahomed, H., Hanekom, W.A., Campo, M., Hawn, T., Wood, R. and Scriba, T.J. 2015. The dynamics of QuantiFERON-TB Gold in-Tube conversion and reversion in a cohort of South African adolescents. *American Journal of Respiratory and Critical Care Medicine*, 191(5): 584-591.

Argent, A.C. 2015. From home to definitive care for critically ill children: barriers and solutions. *Current Treatment Options in Pediatrics*, 1: 119-131.

Argent, A.C. 2015. Max Klein. *Southern African Journal of Critical Care*, 31(1): 32.

Argent, A.C. 2015. Noninvasive ventilatory support: the detail lies in the interface. *Respiratory Care*, 60(11): 1708-1710.

Argent, A.C., Benbenishty, J. and Flaatten, H. 2015. Chronotypes, night shifts and intensive care. *Intensive Care Medicine*, 41: 698-700.

Arnold, M., Itzikowitz, R., Young, B.Y.G., Machoki, M., Hsiao, N.M., Pillay, K. and Alexander, A. 2015. Surgical manifestations of gastrointestinal cytomegalovirus infection in children: Clinical audit and literature

review. *Journal of Pediatric Surgery*, 50: 1874-1879.

Balme, K.H., Zar, H.J., Swift, D. and Mann, M.D. 2015. The efficacy of prophylactic antibiotics in the management of children with kerosene-associated pneumonitis: a double-blind randomised controlled trial. *Clinical Toxicology*, 53: 789-796.

Banderker, E., Pretorius, E. and De Decker, R. 2015. The role of cardiac CT angiography in the pre- and postoperative evaluation of tetralogy of Fallot. *SA Journal of Radiology*, 19(2): 899(9pp).

Barth, D., Zuhlke, L., Joachim, A., Hoegger, T., Mayosi, B.M. and Engel, M.E. 2015. Effect of distance to health facility on the maintenance of INR therapeutic ranges in rheumatic heart disease patients from Cape Town: no evidence for an association. *BMC Health Services Research*, 15: 219(7pp).

Basera, W., Botha, M., Gray, C.L., Lunjani, N., Watkins, A., Venter, c., Allen, K.J., Hlela, C., Zar, H.J. and Levin, M. 2015. The South African food sensitisation and food allergy population-based study of IgE-mediated food allergy: validity, safety, and acceptability. *Annals of Allergy Asthma & Immunology*, 115: 113-119.

Belard, S., Heuvelings, C., Janssen, S. and Grobusch, M. 2015. Bedaquiline for the treatment of drug-resistant tuberculosis. *Expert Review of Anti-infective Therapy*, 13(5): 535-553.

Belard, S., Isaacs Dollie, W., Black, F., Bateman, L., Madolo, L., Munro, J., Workman, L.J., Grobusch, M. and Zar, H.J. 2015. Treatment of childhood tuberculosis: caregivers' practices and perceptions in Cape Town, South Africa. *Paediatrics and International Child Health*, 35(1): 24-28.

Beran, D., Zar, H.J., Perrin, C., Menezes, A.M., Burney, P. and Forum of International Respiratory Societies working group Collaboration, U. 2015. Burden of asthma and chronic obstructive pulmonary disease and access to essential medicines in low-income and middle-income countries. *Lancet Respiratory Medicine*, 3: 159-170.

Bergman, N. 2015. Kangaroo mother care in African countries. *Acta Paediatrica*, 104: 1208-1210.

Bergman, N. 2015. Neuroprotective core measures 1-7: neuroprotection of Skin-to-Skin Contact (SSC). *Newborn and Infant Nursing Reviews*, 15: 142-146.

Bhengu, L., Davidson, A., du Toit, P., Henderson, B., Gerntholtz, T., Govendrageloo, K., Heitner, R., Mubaiwa, L. and Varughese, S. 2015. Anderson-Fabry disease: recommendations for its diagnosis, management and treatment in South Africa, 2014. *Journal of Endocrinology, Metabolism and Diabetes of South Africa (JEMDSA)*, 20(1): 15-23.

Brittain, K., Myers, L., Koen, N., Koopowitz, S., Donald, K.A., Barnett, W., Zar, H.J. and Stein, D.J. 2015. Risk

factors for antenatal depression and associations with infant birth outcomes: results from a South African birth cohort study. *Paediatric and Perinatal Epidemiology*, 29: 505-514.

Bunyasi, E., Tameris, M.D., Geldenhuys, H.D., Schmidt, B., Luabeya, K.K.A., Mulenga, H., Scriba, T., Hanekom, W.A., Mohamed, H., McShane, H. and Hatherill, M. 2015. Evaluation of Xpert MTB/RIF assay in induced sputum and gastric lavage samples from young children with suspected Tuberculosis from the MVA85A TB vaccine trial. *PLoS One*, 10(11): e0141623(10pp).

Buttazzoni, E., Gregori, D., Paoli, B., Soriani, N., Baldas, S., Rodriguez, H., Lorenzoni, G., the Susy Safe Working Group, and Van As, A.B. 2015. Symptoms associated with button batteries injuries in children: an epidemiological review. *International Journal of Pediatric Otorhinolaryngology*, 79: 2200-2207.

Calligaro, G.L. and Gray, D. 2015. Lung function abnormalities in HIV-infected adults and children. *Respirology*, 20: 24-32.

Carpenter, C., Sidney, J., Kolla, R., Nayak, K., Tomiyama, H., Tomiyama, C., Padilla, O.A., Rozot, V., Ahamed, S.F., Ponte, C., Rolla, V., Antas, P.R., Chandele, A., Kenneth, J., Laxmi, S., Makgotlho, E., Vanini, V., Ippolito, G., Kazanova, A.S., Panteleev, A.V., Hanekom, W.A., Mayanja-Kizza, H., Lewinsohn, D., Saito, M., McElrath, M.J., Boom, W.H., Goletti, D., Gilman, R., Lyadova, I.V., Scriba, T., Kallas, E.G., Murali-Krishna, K., Sette, A. and Arlehamn, C.S.L. 2015. A side-by-side comparison of T cell reactivity to fifty-nine Mycobacterium tuberculosis antigens in diverse populations from five continents. *Tuberculosis*, 95: 713-721.

Chacko, A., Andronikou, S. and Ramanjam, V. 2015. Hypoxic brain injury and cortical blindness in a victim of a Mozambican spitting cobra bite. *South African Journal of Surgery*, 53(2): 67-69.

Corten, L., Jelsma, J.M. and Morrow, B. 2015. Chest physiotherapy in children with acute bacterial pneumonia. *South African Journal of Physiotherapy*, 71(1): 256(10pp).

Cox, S.G., Martinez, R., Glick, A., Numanoglu, A. and Rode, H. 2015. A review of community management of paediatric burns. *Burns*, 41: 1805-1810.

Dalvie, S., Koen, N., Duncan, L., Abbo, C., Akena, D., Atwoli, L., Chiliza, B., Donald, K.A.M., Kinyanda, E., Lochner, C., Mall, S., Nakasujja, N., Newton, C.R., Ramesar, R.S., Sibeko, G., Teferra, S., Stein, D.J. and Koenen, K. 2015. Large scale genetic research on neuropsychiatric disorders in African populations is needed. *EBioMedicine*, 2: 1259-1261.

Daniels, K., Sanders, D., Daviaud, E. and Doherty, T. 2015. Valuing and sustaining (or not) the ability

of volunteer community health workers to deliver integrated community case management in northern Ghana: a qualitative study. *PLoS One*, 10(6): e0126322(18pp).

Davidson, A., Figaji, A.A., Pillay, K., Kilborn, T.N., Padayachy, L., Hendricks, M.K., Van Eyssen, A. and Parkes, J. 2014. Low grade gliomas. *Journal of Neuro-Oncology*, 16(2014): i60-i70.

Davies, M., Ford, N., Rabie, H., Fatti, G., Stinson, K., Giddy, J., Tanser, F., Technau, K.-G., Sawry, S., Eley, B.S., Wood, R., Mofenson, L., Keiser, O. and Boulle, A.M. 2015. Reducing CD4 monitoring in children on antiretroviral therapy with virologic suppression. *Pediatric Infectious Disease Journal*, 34(12): 1361-1364.

de Jong, J.T.V.M., Berckmoes, L., Kohrt, B., Song, S.J., Tol, W. and Reis, R. 2015. A public health approach to address the mental health burden of youth in situations of political violence and humanitarian emergencies. *Current Psychiatry Reports*, 17(7): 60(10pp).

Doherty, T., Zembe, W., Ngandu, N., Kinney, M.V., Manda, S.O.M., Besada, D., Jackson, D., Daniels, K., Rohde, S., van Damme, W., Kerber, K.K., Daviaud, E., Rudan, I., Muniz, M., Oliphant, N.P., Zamasiya, T., Rohde, J. and Sanders, D. 2015. Assessment of Malawi's success in child mortality reduction through the lens of the Catalytic Initiative Integrated Health Systems Strengthening programme: retrospective evaluation. *Journal of Global Health*, 5(2): 020412(11pp).

Donald, K., Eastman, E., Howells, F.M., Adnams, C.M., Riley, e.p., Woods, R., Narr, K.L. and Stein, D.J. 2015. Neuroimaging effects of prenatal alcohol exposure on the developing human brain: a magnetic resonance imaging review. *Acta Neuropsychiatrica*, 27(5): 251-269.

Donald, K.A., Kakooza-Mwesige, A., Wammanda, R.D., Mallewa, M., Samia, P., Babakir, H., Bearden, D., Majnemer, A., Fehlings, D., Shevell, M., Chugani, H. and Wilmschurst, J. 2015. Pediatric cerebral palsy in Africa: where are we? *Journal of Child Neurology*, 30(8): 963-971.

Donald, K.A.M., Roos, A., Fouche, J., Koen, N., Howells, F.M., Woods, R.P., Zar, H.J., Narr, K.L. and Stein, D.J. 2015. A study of the effects of prenatal alcohol exposure on white matter microstructural integrity at birth. *Acta Neuropsychiatrica*, 27(4): 197-205.

Donald, K.A.M., Walker, K.G., Kilborn, T.N., Carrara, H.R.O., Langerak, N., Eley, B.S. and Wilmschurst, J. 2015. HIV encephalopathy: pediatric case series description and insights from the clinic coalface. *AIDS Research and Therapy*, 12: 2(10pp).

du Toit, J., Kilborn, T.N., Padayachy, L., Pillay, K. and Hendricks, M.K. 2015. Cystic hemispheric

- medulloepithelioma. *SA Journal of Radiology*, 19(2): 915(5pp).
- du Toit, J., Kilborn, T.N., Van Eyssen, A. and Pillay, K. 2015. Orbital lymphomatoid granulomatosis - a rare cause of proptosis. *Pediatric Radiology*, 45: 1095-1098.
- Dube, F.S., Van Mens, S., Robberts, L., Wolter, N., Nicol, P., Mafofo, J., Africa, S., Zar, H.J. and Nicol, M.P. 2015. Comparison of a real-time multiplex PCR and sequencing assay for pneumococcal serotyping. *PLoS One*, 10(9): e0137349(17pp).
- Eley, B.S. 2015. Care of HIV-exposed and HIV-infected neonates. *Southern African Journal of HIV medicine*, 16(1): 360(3pp).
- Ellis, R.D., Hatherill, M., Tait, D., Snowden, M.A., Churchyard, G.J., Hanekom, W., Evans, T.G. and Ginsberg, A.M. 2015. Innovative clinical trial designs to rationalize TB vaccine development. *Tuberculosis*, 95: 352-357.
- Engel, M.E., Haileamlak, A., Zuhlke, L., Lemmer, C.E., Nkepu, S.A., Van De Wall, M., Daniel, W., Shung King, M. and Mayosi, B.M. 2015. Prevalence of rheumatic heart disease in 4720 asymptomatic scholars from South Africa and Ethiopia. *Heart*, 101: 1389-1394.
- Ferreira-van der Watt, T. 2015. Peanut allergy: changing epidemiology and management. *Current Allergy & Clinical Immunology*, 28(3): 160-162.
- Frigati, L.J., Maskew, M., Workman, L.J., Munro, J., Andronikou, S., Nicol, M.P. and Zar, H.J. 2015. Clinical predictors of culture-confirmed pulmonary tuberculosis in children in a high Tuberculosis and HIV prevalence area. *Pediatric Infectious Disease Journal*, 34(9): e206-e210.
- Geldenhuys, H.D., Mearns, H., Foster, J., Saxon, E., Kagina, B., Saganic, L., Jarrahian, C., Tameris, M.D., Dintwe, O., Van Rooyen, M., Luabeya, K.K.A., Hussey, G.D., Scriba, T., Hatherill, M. and Zehrung, D. 2015. A randomized clinical trial in adults and newborns in South Africa to compare the safety and immunogenicity of bacille Calmette-Gurin (BCG) vaccine administration via a disposable-syringe jet injector to conventional technique with needle and syringe. *Vaccine*, 33: 4719-4726.
- Geldenhuys, H.D., Mearns, H., Miles, D.J.C., Tameris, M.D., Hokey, D.A., Shi, Z., Bennett, S., Andersen, P., Kromann, I., Hoff, S.T., Hanekom, W.A., Mahomed, H., Hatherill, M., Scriba, T.J., Van Rooyen, M., McClain, J.B., Ryall, R. and de Bruyn, G. 2015. The tuberculosis vaccine H4:IC31 is safe and induces a persistent polyfunctional CD4 T cell response in South African adults: a randomized controlled trial. *Vaccine*, 33: 3592-3599.
- Goga, A.E., Feucht, U., Hendricks, M.K., Westwood, A.T.R., Saloojee, H., Swingler, G., McKerrow, N. and Sanders, D. 2015. Community paediatrics and child health. *SAMJ South African Medical Journal*, 105(4): 243.
- Graham, S.M., Cuevas, L.E., Jean-Philippe, P., Browning, R., Casenghi, M., Detjen, A., Gnanashanmugam, D., Hesselting, A.C., Kampmann, B., Mandalakas, A., Marais, B.J., Schito, M., Spiegel, H.M.L., Starke, J.R., Worrell, C. and Zar, H.J. 2015. Clinical case definitions for classification of intrathoracic tuberculosis in children: an update. *Clinical Infectious Diseases*, 61(Suppl 3): S179-S187.
- Gray, C.L., Goddard, E., Karabus, S., Kriel, M., Lang, A.C., Manjra, A., Risenga, S.M., Terblanche, A.J., van der Spuy, D.A. and Levin, M. 2015. Epidemiology of IgE-mediated food allergy. *SAMJ South African Medical Journal*, 105(1): 68-69.
- Gray, C.L., Goddard, E., Karabus, S., Kriel, M., Lang, A.C., Manjra, A., Risenga, S.M., Terblanche, A.J., van der Spuy, D.A. and Levin, M. 2015. Novel therapies in the management of food allergy: oral immunotherapy and anti-IgE. *SAMJ South African Medical Journal*, 105(1): 74.
- Gray, C.L., Levin, M. and du Toit, G. 2015. Ethnic differences in peanut allergy patterns in South African children with atopic dermatitis. *Pediatric Allergy and Immunology*, 26: 721-730.
- Gray, C.L., Levin, M., Wieselthaler, N., Wood, R.J. and Wilson, G. 2015. Peri-anaesthetic anaphylaxis due to radiographic contrast medium: The role of intradermal testing in diagnosis and management. *Current Allergy & Clinical Immunology*, 28(3): 210-212.
- Gray, D., Czovek, D., Smith, E., Willemse, L., Alberts, A., Gingl, Z., Hall, G.L., Zar, H.J., Sly, P.D. and Hantos, Z. 2015. Respiratory impedance in healthy unsedated South African infants: effects of maternal smoking. *Respirology*, 20: 467-473.
- Gray, D., Willemse, L., Alberts, A., Simpson, S., Sly, P., Hall, G.L. and Zar, H.J. 2015. Lung function in African infants: a pilot study. *Pediatric Pulmonology*, 50: 49-54.
- Gray, D., Willemse, L., Alberts, A., Smith, E., Czovek, D., Sly, P.D., Hantos, z., Hall, G.L. and Zar, H.J. 2015. Lung function and exhaled nitric oxide in healthy unsedated African infants. *Respirology*, 20: 1108-1114.
- Haas, A.D., Keiser, O., Balestre, E., Brown, S., Bissagnene, E., Chimbetete, C., Dabis, F., Davies, M., Hoffmann, C.J., Oyaro, P., Parkes-Ratanshi, R., Reynolds, S.J., Sikazwe, I., Wools-Kaloustian, K., Zannou, M.D., Wandeler, G., Egger, M. and Eley,

- B.S. 2015. Monitoring and switching of first-line antiretroviral therapy in adult treatment cohorts in sub-Saharan Africa: collaborative analysis. *Lancet HIV*, 2: e271-e278.
- Hinton, D., Reis, R. and de Jong, J. 2015. The “thinking a lot” idiom of distress and PTSD: an examination of their relationship among traumatized Cambodian refugees using the “thinking a lot” questionnaire. *Medical Anthropology Quarterly*, 29(3): 357-380.
- Hoare, J., Fouche, J., Phillips, N., Joska, J., Donald, K.A., Thomas, K. and Stein, D.J. 2015. Clinical associations of white matter damage in cART-treated HIV-positive children in South Africa. *Journal of Neurovirology*, 21: 120-128.
- Hoare, J., Fouche, J., Phillips, N., Joska, J., Paul, R., Donald, K.A., Thomas, K. and Stein, D.J. 2015. White matter micro-structural changes in ART-naive and ART-treated children and adolescents infected with HIV in South Africa. *AIDS*, 29: 1793-1801.
- Isaac, K., van Niekerk, A. and Van As, A.B. 2015. Child road traffic crash injuries at the Red Cross War Memorial Children’s Hospital in Cape Town, South Africa in 1992, 2002 and 2012. *International Journal of Injury Control and Safety Promotion*, 22(4): 352-358.
- Itzikowitz, R. and Tooke, L. 2015. Transpyloric feeding – worth the risk? *The Paediatric Quarterly*, 6(2): 7-8.
- Janssen, T.L., van Dijk, M., Van As, A.B., Millar, A.J.W., Numanoglu, A. and Brink, A. 2015. Cost-effectiveness of the sucralfate technetium 99m isotope labelled esophageal scan to assess esophageal injury in children after caustic ingestion. *Emergency Medicine Open Journal*, 1(1): 17-21.
- Jasenosky, L.D., Scriba, T., Hanekom, W.A. and Goldfeld, A.E. 2015. T cells and adaptive immunity to *Mycobacterium tuberculosis* in humans. *Immunological Reviews*, 264: 74-87.
- Joanknecht, L., Argent, A.C., van Dijk, M. and Van As, A.B. 2015. Childhood drowning in South Africa: local data should inform prevention strategies. *Pediatric Surgery International*, 31: 123-130.
- Jones, C.E., Hesselting, A.C., Tena-Coki, N., Scriba, T., Chegou, N.N., Kidd, M., Wilkinson, R.J. and Kampmann, B. 2015. The impact of HIV exposure and maternal *Mycobacterium tuberculosis* infection on infant immune responses to bacille Calmette-Gurin vaccination. *AIDS*, 29: 155-165.
- Jutel, M., Agache, I., Bonini, S., Burks, W., Calderon, M., Canonica, G.W., Cox, L., Demoly, P., Frew, A.J., O’Hehir, R.E., Kleine-Tebbe, J., Muraro, A., Lack, G., Larenas, D., Levin, M., Nelson, H., Pawankar, R., Pfaar, O., van Ree, R., Sampson, H., Santos, A.F., du Toit, G., Werfel, T., Gerth Van Wijk, R., Zhang, L. and Akdis, C.A. 2015. International consensus on allergy immunotherapy. *Journal of Allergy and Clinical Immunology*, 136: 556-568.
- Kagina, B., Mansoor, N., Kpamegan, E.P., Penn-Nicholson, A., Nemes, E., Smit, E., Gelderbloem, S., Soares, A.P., Abel, B., Keyser, A.T., Sidibana, M., Hughes, J., Kaplan, G., Hussey, G.D., Hanekom, W.A. and Scriba, T. 2015. Qualification of a whole blood intracellular cytokine staining assay to measure *Mycobacterium tuberculosis*-specific CD4 and CD8 T cell immunity by flow cytometry. *Journal of Immunological Methods*, 417: 22-33.
- Kakande, B., Isaacs, T., Muloiwa, R., Dlamini, S.K. and Lehloenyane, R.J. 2015. Case Report: Stevens-Johnson syndrome following a single double dosing of nevirapine-containing regimen once in an HIV-infected woman on long-term antiretroviral therapy. *F1000 Research*, 4: 175(5pp).
- Kalula, S.Z., Ferreira, M., Swingler, G., Badri, M. and Sayer, A.A. 2015. Prevalence of falls in an urban community-dwelling older population of Cape Town, South Africa. *Journal of Nutrition Health & Aging*, 19(10): 1024-1031.
- Kalula, S.Z., Ferreira, M., Swingler, G.H. and Badri, M. 2015. Ethnic differences in rates and causes of falls in an urban community-dwelling older population in South Africa. *Journal of the American Geriatrics Society*, 63(2): 403-404.
- Kander, V. and Wilmshurst, J. 2015. Training doctors in basic EEG: analysis of a learning tool relevant to resource-limited settings. *Epileptic Disorders*, 17(1): 58-66.
- Karabus, S., Gray, C.L., Goddard, E., Kriel, M., Lang, A.C., Manjra, A., Risenga, S.M., Terblanche, A.J., van der Spuy, D.A. and Levin, M. 2015. Vaccination in food allergic patients. *SAMJ South African Medical Journal*, 105(1): 73(2pp).
- Keiser, O., Blaser, N., Davies, M., Wessa, P., Eley, B.S., Moultrie, H., Rabie, H., Technau, K., Ndirangu, J., Garone, D., Giddy, J., Grimwood, A., Gsponer, T. and Egger, M. 2015. Growth in virologically suppressed HIV-positive children on antiretroviral therapy: individual and population-level references. *Pediatric Infectious Disease Journal*, 34(10): e254-e259.
- Kerber, K.K., Mathai, M., Lewis, G., Flenady, V., Erwich, J.J.H.M., Segun, T., Aliganyira, P., Abdelmegeid, A., Allanson, E., Roos, N., Rhoda, N.R., Lawn, J. and Pattinson, R. 2015. Counting every stillbirth and neonatal death through mortality audit to improve quality of care for every pregnant woman and her baby. *BMC Pregnancy and Childbirth*, 15(Suppl 2): S9(16pp).
- Kija, E., Ndong, A., Spittal, G., Hardie, D.R., Eley, B.S. and Wilmshurst, J. 2015. Subacute sclerosing panencephalitis in South African children following

- the measles outbreak between 2009 and 2011. *SAMJ South African Medical Journal*, 105(9): 713-718.
- Kinney, M.V., Cocoman, O., Dickson, K.E., Daelmans, B., Zaka, N., Rhoda, N.R., Moxon, S.G., Kak, L., Lawn, J., Khadka, N. and Darmstadt, G.L. 2015. Implementation of the Every Newborn Action Plan: progress and lessons learned. *Seminars in Perinatology*, 39: 326-337.
- Knight, L., Todd, G., Muloiwa, R., Matjila, M. and Lehloeny, R.J. 2015. Stevens Johnson Syndrome and toxic epidermal necrolysis: maternal and foetal outcomes in twenty- two consecutive pregnant HIV infected women. *PLoS One*, 10(8): e0135501(11pp).
- Kroon, M. 2015. Recognising and managing increased HIV transmission risk in newborns. *Southern African Journal of HIV medicine*, 16(1): 371(7pp).
- Kuhn, L. and Kroon, M. 2015. Breastfeeding and the 2015 South African guidelines for prevention of mother-to-child transmission of HIV. *Southern African Journal of HIV medicine*, 16(1): 377(5pp).
- Ladapo, T.A., Gajjar, P., McCulloch, M., Scott, C., Numanoglu, A. and Nourse, P.J. 2015. Impact of revascularization on hypertension in children with Takayasu's arteritis-induced renal artery stenosis: a 21-year review. *Pediatric Nephrology*, 30: 1289-1295.
- Lang, A.C., Manjra, A., Terblanche, A.J., Risenga, S.M., Gray, C.L., Goddard, E., Karabus, S., Kriel, M., van der Spuy, D.A. and Levin, M. 2015. Exclusion diets and challenges in the diagnosis of food allergy. *SAMJ South African Medical Journal*, 105(1): 67-68.
- Lang, A.C., van der Spuy, D.A., Goddard, E., Terblanche, A.J., Gray, C.L., Gray, C.L., Karabus, S., Manjra, A., Risenga, S.M. and Levin, M. 2015. Elimination diets and dietary interventions for the management of food allergies. *SAMJ South African Medical Journal*, 105(1): 71-72.
- Lazarus, J., Theron, A. and Smit, S. 2015. Posterior urethral valves and Down syndrome. *African Journal of Urology*, 21: 4-5.
- Le Roux, D., Myer, L., Nicol, M.P. and Zar, H.J. 2015. Incidence and severity of childhood pneumonia in the first year of life in a South African birth cohort: the Drakenstein Child Health Study. *The Lancet Global Health*, 3: e95-e103.
- Le Roux, D., Myer, L., Nicol, M.P. and Zar, H.J. 2015. Incidence of childhood pneumonia: facility-based surveillance estimate compared to measured incidence in a South African birth cohort study. *BMJ Open*, 5: e009111(6pp).
- Lehloeny, R.J., Muloiwa, R., Dlamini, S.K., Gantsho, N., Todd, G. and Dheda, K. 2015. Lack of cross-toxicity between isoniazid and ethionamide in severe cutaneous adverse drug reactions: a series of 25 consecutive confirmed cases. *Journal of Antimicrobial Chemotherapy*, 70: 2648-2651.
- Levin, M., Gray, C.L., Goddard, E., Karabus, S., Kriel, M., Lang, A.C., Manjra, A., Risenga, S.M., Terblanche, A.J. and van der Spuy, D.A. 2015. South African food allergy consensus document 2014. *SAMJ South African Medical Journal*, 105(1): 62-65.
- Lewandowski, L.B. and Scott, C. 2015. Apartheid and healthcare access for paediatric systemic lupus erythematosus patients in South Africa. *South African Journal of Child Health*, 9(2): 36-37.
- Lin, L., Finak, G., Ushey, K., Seshadri, C., Hawn, T., Frahm, N., Scriba, T., Mahomed, H., Hanekom, W.A., Bart, P., Pantaleo, G., Tomaras, G.D., Rerks-Ngarm, S., Kaewkwungwal, J., Nitayaphan, S., Pitisuttithum, P., Michael, N.L., Kim, J.H., Robb, M.L., O'Connell, R.J., Karasavvas, N., Gilbert, P.B., De Rosa, S.C., McElrath, M.J. and Gottardo, R. 2015. COMPASS identifies T-cell subsets correlated with clinical outcomes. *Nature Biotechnology*, 33(6): 610-616.
- Lochan, H., Naicker, P., Maphanga, T., Ryan, A., Pillay, K., Govender, N.P. and Eley, B.S. 2015. A case of emmonsiosis in an HIV-infected child. *Southern African Journal of HIV medicine*, 16(1): 352(4pp).
- Luabeya, K.K.A., Kagina, B., Tameris, M.D., Geldenhuys, H.D., Hoff, S.T., Shi, Z., Kromann, I., Hatherill, M., Mahomed, H., Hanekom, W.A., Andersen, P., Scriba, T., Schoeman, E., Krohn, C., Day, C., Africa, H., Makhethhe, L., Smit, E., Browne, Y., Suliman, S., Hughes, E.J., Bang, P., Snowden, M.A., McClain, B. and Hussey, G.D. 2015. First-in-human trial of the post-exposure tuberculosis vaccine H56:IC31 in mycobacterium tuberculosis infected and non-infected healthy adults. *Vaccine*, 33: 4130-4140.
- Luabeya, K.K.A., Tameris, M.D., Geldenhuys, H.D., Mulenga, H., van Schalkwyk, A., Hughes, E.J., Toefy, A., Scriba, T., Hussey, G.D., Mahomed, H., McShane, H., Landry, B., Hanekom, W.A. and Hatherill, M. 2015. Risk of disease after isoniazid preventive therapy for mycobacterium tuberculosis exposure in young HIV-uninfected children. *Pediatric Infectious Disease Journal*, 34: 1218-1222.
- Lupton-Smith, A., Argent, A.C., Rimensberger, P.C. and Morrow, B. 2015. The effects of prone and supine positions on the regional distribution of ventilation in infants and children using electrical impedance tomography. *South African Journal of Physiotherapy*, 71(1): 237(5pp).
- Machoki, M., Millar, A.J., Albertyn, R., Cox, S.G., Thomas, J.M. and Numanoglu, A. 2015. Local anesthetic wound infusion versus standard analgesia in paediatric post-operative pain control. *Pediatric Surgery International*, 31: 1087-1097.

- Madhi, S.A., Groome, M.J., Zar, H.J., Kapongo, C.N., Mulligan, C., Nzenze, S., Moore, D.P., Zell, E.R., Whitney, C.G. and Verani, J.R. 2015. Effectiveness of pneumococcal conjugate vaccine against presumed bacterial pneumonia hospitalisation in HIV-uninfected South African children: a case-control study. *Thorax*, 70: 1149-1155.
- Mann, T., Donald, K.A., Walker, K.G. and Langerak, N. 2015. Resolved lower limb muscle tone abnormalities in children with HIV encephalopathy receiving standard antiretroviral therapy. *AIDS Research and Therapy*, 12: 43(5pp).
- Masson, L., Salkinder, A.L., Olivier, A., McKinnon, L.R., Gamielien, H., Mlisana, K., Scriba, T., Lewis, D.A., Little, F., Jaspan, H.B., Ronacher, K., Denny, L.A., Abdool Karim, S.S. and Passmore, J. 2015. Relationship between female genital tract infections, mucosal interleukin-17 production and local T helper type17 cells. *Immunology*, 146: 557-567.
- Mathews, S., Jewkes, R. and Abrahams, N. 2015. 'So now I'm the Man': intimate partner femicide and its interconnections with expressions of masculinities in South Africa. *British Journal of Criminology*, 55(1): 107-124.
- Matzopoulos, R., Prinsloo, M., Pillay-van Wyk, V., Gwebushe, N., Mathews, S., Martin, L.J., Laubscher, R., Abrahams, N., Msemburi, W., Lombard, C. and Bradshaw, D. 2015. Injury-related mortality in South Africa: a retrospective descriptive study of postmortem investigations. *Bulletin of the World Health Organization*, 93: 303-313.
- McCulloch, M. 2015. Acute Kidney Injury (AKI): current thoughts and controversies in pediatrics. *Current Pediatrics Reports*, 3: 91-100.
- McCulloch, M. and Kala, U.K. 2015. Renal transplantation in human immunodeficiency virus (HIV)-positive children. *Pediatric Nephrology*, 30: 541-548.
- Megaw, K. and Wilmshurst, J. 2015. The Keilah foundation: making the ketogenic diet viable for children in Africa. *Epilepsia*, 56(4): 514-516.
- Menanzhe, R.I., Zar, H.J., Nicol, M.P. and Kaba, M. 2015. The spread of carbapenemase-producing bacteria in Africa: a systematic review. *Journal of Antimicrobial Chemotherapy*, 70: 23-40.
- Millar, A.J.W. and Cox, S. 2015. Caustic injury of the oesophagus. *Pediatric Surgery International*, 31: 111-121.
- Moorthy, L.N., Roy, E., Kurra, V., Peterson, M.G.E., Hassett, A.L., Lehman, T.J.A., Scott, C., El-Ghoneimy, D., Saad, S., El Feky, R., Al-Mayouf, S., Dolezalova, P., Malcova, H., Herlin, T., Nielsen, S., Wulffraat, N., van Royen, A., Marks, S.D., Belot, A., Brunner, J., Huemer, C., Foeldvari, I., Horneff, G., Saurenman, T. and Schroeder, S. 2014. Health related quality of life measure in systemic pediatric rheumatic diseases and its translation to different languages: an international collaboration. *Pediatric Rheumatology*, 12: 49(6pp).
- Morrow, B. 2015. Chest physiotherapy in the pediatric intensive care unit. *Journal of Pediatric Intensive Care*, 4: 174-181.
- Morrow, B. 2015. End-of-life care in the pediatric intensive care units: challenges and ethical principles. *Indian Journal of Critical Care Medicine*, 19(3): 133-135.
- Morrow, B. 2015. Ethical considerations for critical care research. *Southern African Journal of Critical Care*, 31(2): 34-35.
- Morrow, B. 2015. Ethical threats and safeguards: principles for rehabilitation research. *International Journal of Therapy and Rehabilitation*, 22(11): 506-507.
- Morrow, B.M., Argent, A.C. and Kling, S. 2015. Informed consent in paediatric critical care research – a South African perspective. *BMC Medical Ethics*, 16: 62(13pp).
- Moth, B.R., Lindestam Arlehamn, C.S., Dow, C., Dillon, M.B.C., Wiseman, R.W., Bohn, P., Karl, J., Golden, N.A., Gilpin, T., Foreman, T.W., Rodgers, M.A., Mehra, S. and Scriba, T. 2015. The TB-specific CD4+ T cell immune repertoire in both cynomolgus and rhesus macaques largely overlap with humans. *Tuberculosis*, 95: 722-735.
- Mulenga, H., Tameris, M.D., Luabeya, K.K.A., Geldenhuys, H.D., Scriba, T., Hussey, G.D., Mahomed, H., Landry, B., Hanekom, W.A., McShane, H. and Hatherill, M. 2015. The role of clinical symptoms in the diagnosis of Intrathoracic Tuberculosis in young children. *Pediatric Infectious Disease Journal*, 34: 1157-1162.
- Muloiwa, R., Kagina, B., Engel, M.E. and Hussey, G.D. 2015. The burden of pertussis in low- and middle-income countries since the inception of the Expanded Programme on Immunization (EPI) in 1974: a systematic review protocol. *Systematic Reviews*, 4:62: (7pp).
- Murphy, R., Stewart, A.W., Braithwaite, I., Beasley, R., Hancox, R.J., Mitchell, E., ISAAC Phase III Study Group, and Zar, H.J. 2015. Association between paracetamol use in infancy or childhood with body mass index. *Obesity*, 23(5): 1030-1038.
- Mwamba, B. 2015. Implementation of delayed cord clamping in seven midwifery training schools of Zambia. *Newborn and Infant Nursing Reviews*, 15: 163-164.

- Nemes, E., Kagina, B., Smit, E., Africa, H., Steyn, M., Hanekom, W.A. and Scriba, T.J. 2015. Differential leukocyte counting and immunophenotyping in cryopreserved ex vivo whole blood. *Cytometry Part A*, 87A: 157-165.
- Nguyen, K., de Villiers, A., Fourie, J.M., Bourne, L. and Hendricks, M.K. 2015. The feasibility of implementing food-based dietary guidelines in the South African primary-school curriculum. *Public Health Nutrition*, 18(1): 167-175.
- Nicol, M.P., Gnanashanmugam, D., Browning, R., Click, E.S., Cuevas, L.E., Detjen, A., Graham, S.M., Levin, M., Makhene, M., Nahid, P., Perez-Velez, C.M., Reither, K., Song, R., Spiegel, H.M.L., Worrell, C., Zar, H.J. and Walzl, G. 2015. A blueprint to address research gaps in the development of biomarkers for pediatric tuberculosis. *Clinical Infectious Diseases*, 61: S164-S172.
- Nortje, N. and Albertyn, R. 2015. The cultural language of pain: a South African study. *South African Family Practice*, 57(1): 24-27.
- Nuttall, J.J. 2015. Antiretroviral therapy during the neonatal period. *Southern African Journal of HIV medicine*, 16(1): 361(8pp).
- Nyangabyaki-Twesigye, C., Muhame, M. and Bahendeka, S. 2015. Permanent neonatal diabetes mellitus – a case report of a rare cause of diabetes mellitus in East Africa. *African Health Sciences*, 15(4): 1339-1341.
- Okong'o, L., Webb (Weakley), K. and Scott, C. 2015. HIV-associated juvenile systemic sclerosis: a case report. *Seminars in Arthritis and Rheumatism*, 44: 411-416.
- Oladokun, R., Korsman, S.N.J., Ndabambi, N.P., Hsiao, N.M., Hans, L., Williamson, C., Abrahams, M. and Eley, B.S. 2015. False-negative HIV-1 polymerase chain reaction in a 15-month-old boy with HIV-1 subtype C infection. *SAMJ South African Medical Journal*, 105(10): 877(3pp).
- Owen, P., Nandhlal, J., Leisegang, F., Van Der Watt, G.F., Nourse, P.J. and Gajjar, P. 2015. Common mutation causes cystinosis in the majority of black South African patients. *Pediatric Nephrology*, 30: 595-601.
- Parker, H. and Brey, Z. 2015. Collaboration costs and new product development performance. *Journal of Business Research*, 68(7): 1653-1656.
- Parkes, J., Davidson, A., Figaji, A.A., Pillay, K., Kilborn, T.N., Padayachy, L., Hendricks, M.K. and Van Eyssen, A. 2014. Ependymoma. *Journal of Neuro-Oncology*, 16(2014): I17-I25.
- Parkes, J., Hendricks, M., Ssenyonga, P., Mugamba, J., Molyneux, E., Shouten-van Meeteren, A., Qaddoumi, I., Fieggen, A.G., Luna-Fineman, S., Howard, S., Mitra, D., Bouffet, E., Davidson, A. and Bailey, S. 2015. SIOP PODC adapted treatment recommendations for standard-risk medulloblastoma in low and middle income settings. *Pediatric Blood & Cancer*, 62: 553-564.
- Paul, S., Arlehamn, C.S.L., Scriba, T., Dillon, M.B.C., Oseroff, C., Hinz, D., McKinney, D.M., Pro, S.C., Sidney, J., Peters, B. and Sette, A. 2015. Development and validation of a broad scheme for prediction of HLA class II restricted T cell epitopes. *Journal of Immunological Methods*, 422: 28-34.
- Paul, S., Dillon, M.B.C., Arlehamn, C.S.L., Huang, H., Davis, M.M., McKinney, D.M., Scriba, T., Sidney, J., Peters, B. and Sette, A. 2015. A population response analysis approach to assign class II HLA-epitope restrictions. *Journal of Immunology*, 194: 6164-6176.
- Penn-Nicholson, A., Geldenhuys, H.D., Burny, W., van der Most, R., Day, C., Jongert, E., Moris, P., Hatherill, M., Ofori-Anyinam, O., Hanekom, W.A., Bollaerts, A., Demoitie, M.-A., Luabeya, K.K.A., De Ruymaeker, E., Tameris, M.D., Lapierre, D. and Scriba, T. 2015. Safety and immunogenicity of candidate vaccine M72/AS01E in adolescents in a TB endemic setting. *Vaccine*, 33: 4025-4034.
- Penn-Nicholson, A., Nemes, E., Hanekom, W.A., Hatherill, M. and Scriba, T. 2015. Mycobacterium tuberculosis-specific CD4 T cells are the principal source of IFN- in QuantiFERON assays in healthy persons. *Tuberculosis*, 95: 350-351.
- Perez, E.M., Carrara, H., Bourne, L., Berg, A., Swanevelder, S. and Hendricks, M.K. 2015. Massage therapy improves the development of HIV-exposed infants living in a low socio-economic, peri-urban community of South Africa. *Infant Behavior & Development*, 38: 135-146.
- Pillay, V., Davies, M., King, S. and Eley, B.S. 2015. Short-term treatment outcomes of children starting antiretroviral therapy in the intensive care unit, general medical wards and outpatient HIV clinics at Red Cross War Memorial Children's Hospital, Cape Town, South Africa: a retrospective cohort study. *SAMJ South African Medical Journal*, 105(3): 220-227.
- Pitcher, R.D., Beningfield, S.J. and Zar, H.J. 2015. The chest X-ray features of chronic respiratory disease in HIV-infected children - a review. *Paediatric Respiratory Reviews*, 16: 258-266.
- Pitcher, R.D., Lombard, C., Cotton, M., Beningfield, S.J., Workman, L.J. and Zar, H.J. 2015. Chest radiographic abnormalities in HIV-infected African children: a longitudinal study. *Thorax*, 70: 840-846.
- Porter, G., Hampshire, K., Abane, A., Munthali, A., Robson, E., Bango, A., De Lannoy, A.M.F.A.,



- Gunguluza, N., Tanle, A., Owusu, S.A. and Milner, J. 2015. Intergenerational relations and the power of the cell phone: perspectives on young people's phone usage in sub-Saharan Africa. *Geoforum*, 64: 37-46.
- Porter, M., Davies, M., Mapani, M., Rabie, H., Phiri, S., Nuttall, J.J., Technau, K.-G., Fairlie, L., Stinson, K., Wood, R., Wellington, M., Haas, A.D., Giddy, J., Tanser, F. and Eley, B.S. 2015. Outcomes of infants starting antiretroviral therapy in Southern Africa, 2004-2012. *J AIDS-Journal of Acquired Immune Deficiency Syndromes*, 69(5): 593-601.
- Raban, M. and Harrison, M. 2015. Fresh frozen plasma use in a neonatal unit in South Africa. *Journal of Tropical Pediatrics*, 61: 266-271.
- Raban, M., Bamford, C., Joolay, Y. and Harrison, M. 2015. Impact of an educational intervention and clinical performance dashboard on neonatal bloodstream infections. *SAMJ South African Medical Journal*, 105(7): 564-566.
- Raban, M., Muller, S.J. and Harrison, M. 2015. An unusual case of congenital synynathia. *Journal of Neonatal Biology*, 4(3): 1000192(3pp).
- Raiman, S., Knight, S.E., Eley, B.S. and Welzel, T.B. 2015. Use of polyclonal intravenous immunoglobulin at a paediatric referral hospital in South Africa between 2009 and 2012. *Journal of Clinical Immunology*, 35: 668-674.
- Reddy, D., Morrow, B. and Argent, A.C. 2015. *Acinetobacter baumannii* infections in a South African paediatric intensive care unit. *Journal of Tropical Pediatrics*, 61: 182-187.
- Riou, C., Tanko, T., Soares, A.P., Masson, L., Werner, L., Garrett, N.G., Samsunder, N., Abdool Karim, Q., Abdool Karim, S.S. and Burgers, W. 2015. Restoration of CD4+ responses to copathogens in HIV-infected individuals on antiretroviral therapy is dependent on T cell memory phenotype. *Journal of Immunology*, 195: 2273-2281.
- Risenga, S.M., Kriel, M., Karabus, S., Manjra, A., Gray, C.L., Goddard, E., Lang, A.C., Terblanche, A.J., van der Spuy, D.A. and Levin, M. 2015. Severe food allergy and anaphylaxis: treatment, risk assessment and risk reduction. *SAMJ South African Medical Journal*, 105(1): 72-73.
- Roberts, T., Stephen, L., Scott, C., Pasquale, T., Naser-Eldin, A., Chetty, M., Shaik, S., Lewandowski, L.B. and Beighton, P. 2015. Candle Syndrome: orofacial manifestations and dental implications. *Head & Face Medicine*, 11: 38(7pp).
- Rode, H., Rogers, A.D., Numanoglu, A., Wallis, L.A., Allgaier, R., Laflamme, L., Hasselberg, M., Blom, L. and Duvenage, R. 2015. A review of primary and secondary burn services in the Western Cape, South Africa. *SAMJ South African Medical Journal*, 105(10): 853-857.
- Rokach, O., Sekulic-Jablanovic, M., Voermans, N., Wilmshurst, J., Pillay, K., Heytens, L., Zhou, H., Muntoni, F., Gautel, M., Nevo, Y., Mitrani-Rosenbaum, S., Attali, R., Finotti, A., Gambari, R., Mosca, B., Jungbluth, H., Zorzato, F. and Treves, S. 2015. Epigenetic changes as a common trigger of muscle weakness in congenital myopathies. *Human Molecular Genetics*, 24(16): 4636-4647.
- Roos, A., Kwiatkowski, M., Fouche, J., Narr, K.L., Thomas, K., Stein, D.J. and Donald, K.A. 2015. White matter integrity and cognitive performance in children with prenatal methamphetamine exposure. *Behavioural Brain Research*, 279: 62-67.
- Rossouw, G., Irlam, J.H. and Horn, A. 2015. Therapeutic hypothermia for hypoxic ischaemic encephalopathy using low-technology methods: a systematic review and meta-analysis. *Acta Paediatrica*, 104: 1217-1228.
- Rozot, V., Patrizia, A., Vigano, S., Mazza-Stalder, J., Idrizi, E., Day, C., Perreau, M., Lazor-Blanchet, C., Ohmiti, K., Goletti, D., Bart, P., Hanekom, W.A., Scriba, T., Nicod, L., Pantaleo, G. and Harari, A. 2015. Combined use of Mycobacterium Tuberculosis-specific CD4 and CD8 T-cell responses is a powerful diagnostic tool of active Tuberculosis. *Clinical Infectious Diseases*, 60(3): 432-437.
- Samia, P., Donald, K.A., Schlegel, B. and Wilmshurst, J. 2015. Parental understanding of Tuberosus Sclerosis Complex. *Journal of Child Neurology*, 30(10): 1281-1286.
- Scott, C. and Brice, N. 2015. Juvenile idiopathic arthritis - an update on its diagnosis and management. *SAMJ South African Medical Journal*, 105(12): 1077(7pp).
- Seshadri, C., Lin, L., Scriba, T., Peterson, G., Freidrich, D., Frahm, N., DeRosa, S., Moody, D.B., Prandi, J., Gilleron, M., Mohamed, H., Jiang, W., Finak, G., Hanekom, W.A., Gottardo, R., McElrath, M. and Hawn, T. 2015. T Cell responses against mycobacterial lipids and proteins are poorly correlated in South African adolescents. *Journal of Immunology*, 195: 4595-4603.
- Shi, T., Balsells, E., Wastnedge, E., Singleton, R., Rasmussen, Z.A., Zar, H.J., Rath, B.A., Madhi, S.A., Campbell, S., Vaccari, L.C., Bulkow, L.R., Thomas, E.D., Barnett, W., Hoppe, C., Campbell, H. and Nair, H. 2015. Risk factors for respiratory syncytial virus associated with acute lower respiratory infection in children under five years: systematic review and meta-analysis. *Journal of Global Health*, 5(2): 020416(13pp).
- Smit, W., De Lannoy, A., Dover, R.V.H., Lambert, E.V., Levitt, N. and Watson, V.J. 2015. Making unhealthy

- places: the built environment and non-communicable diseases in Khayelitsha, Cape Town. *Health & Place*, 35: 11-18.
- Smoyer, W.E., Finkelstein, F.O., McCulloch, M., Carter, M., Brusselmans, A. and Feehally, J. 2015. Saving Young Lives: provision of acute dialysis in low-resource settings. *Lancet*, 386: 2056.
- Snoek, K., Timmers, M., Albertyn, R. and van Dijk, M. 2015. Pain indicators for persisting pain in hospitalized infants in a South African setting: an explorative study. *Journal of Pain & Palliative Care Pharmacotherapy*, 29(2): 125-132.
- Solarin, A. and Njokanma, F.O. 2015. The micral-test as a screening tool to detect micro-albuminuria in children 5 – 15 years old with sickle cell anaemia, Lagos State University Teaching Hospital. *South African Journal of Child Health*, 9(2): 41-44.
- Solarin, A., Gajjar, P. and Nourse, P.J. 2015. Neonatal urinary ascites: a report of three cases. *Case Reports in Nephrology*, 2015: 942501(4pp).
- Spittal, G., Lewandowski, L.B. and Scott, C. 2015. A clinical update on paediatric lupus. *SAMJ South African Medical Journal*, 105(12): 1075(5pp).
- Stefan, D.C., Stones, D.K., Wainwright, R.D., Kruger, M., Davidson, A., Poole, J., Hadley, G.P., Forman, D., Colombet, M. and Steliarova-Foucher, E. 2015. Childhood cancer incidence in South Africa, 1987 – 2007. *SAMJ South African Medical Journal*, 105(11): 939-947.
- Stein, D.J., Koen, N., Donald, K.A.M., Adnams, C.M., Koopowitz, S., Lund, C., Marais, A., Myers, B.J., Roos, A., Sorsdahl, K., Stern, M., Tomlinson, M., Van der Westhuizen, C., Vythilingum, B., Myer, L., Barnett, W., Brittain, K. and Zar, H.J. 2015. Investigating the psychosocial determinants of child health in Africa: the Drakenstein Child Health study. *Journal of Neuroscience Methods*, 252: 27-35.
- Sweijd, N.A., Wright, C.Y., Westwood, A.T.R., Rouault, M., Landman, W.A., MacKenzie, M.L., Nuttall, J.J., Mahomed, H., Cousins, T., Winter, K.J., Berhoozi, F., Kalule, B., Kruger, P., Govender, T. and Minakawa, N. 2015. Climate change is catchy – but when will it really hurt? *SAMJ South African Medical Journal*, 105(12): 1018-1023.
- Tameris, M.D., Hokey, D.A., Nduba, V., Sacarlal, J., Laher, F., Kiringa, G., Gondo, K., Lazarus, E., Gray, G.E., Nachman, S., Mahomed, H., Downing, K.J., Abel, B., Scriba, T., McClain, J., Pau, M.G., Hendriks, J., Dheenadhayala, V., Ishmukhamedov, S., Luabeya, K.K.A., Geldenhuys, H.D., Shepherd, B., Blatner, G., Cardenas, V., Walker, R., Hanekom, W.A., Sadoff, J.C., Douoguih, M., Barker, L. and Hatherill, M. 2015. A double-blind, randomised, placebo-controlled, dose-finding trial of the novel tuberculosis vaccine AERAS-402, an adenovirus-vectored fusion protein, in healthy, BCG-vaccinated infants. *Vaccine*, 33: 2944-2954.
- Tebruegge, M., Dutta, B., Donath, S., Ritz, N., Forbes, B., Camacho-Badilla, K., Clifford, V., Zufferey, C., Robins-Browne, R., Hanekom, W.A. and Graham, S.M. 2015. Mycobacteria-specific cytokine responses detect tuberculosis infection and distinguish latent from active tuberculosis. *American Journal of Respiratory and Critical Care Medicine*, 192(4): 485-499.
- Terblanche, A.J., Lang, A.C., Gray, C.L., Goddard, E., Karabus, S., Kriel, M., Manjra, A., Risenga, S.M., van der Spuy, D.A. and Levin, M. 2015. Non-IgE-mediated food allergies. *SAMJ South African Medical Journal*, 105(1): 66(2pp).
- Theron, A., Brisighelli, G., Theron, A.E., Leva, E. and Numanoglu, A. 2015. Comparison in the incidence of anorectal malformations between a first- and third-world referral center. *Pediatric Surgery International*, 31: 759-764.
- Tiva, G., Gray, T., Zampoli, M. and Vanker, A. 2015. Pleural effusion in children associated with adenovirus infection. *South African Respiratory Journal*, 21(3): 78-79.
- Tume, L.N., Coetzee, M., Dryden-Palmer, K., Hickey, P.A., Kinney, S., Latour, J., Pedreira, M., Sefton, G., Sorce, L. and Curley, M. 2015. Pediatric critical care nursing research priorities – initiating international dialogue. *Pediatric Critical Care Medicine*, 16(6): e174-e182.
- van Dam, J., Musuku, J., Zuhlke, L., Engel, M.E., Nestle, N., Tadmor, B., Spector, J. and Mayosi, B.M. 2015. An open-access, mobile compatible, electronic patient register for rheumatic heart disease (eRegister) based on the World Heart Federations framework for patient registers. *Cardiovascular Journal of Africa*, 26(6): 227-233.
- van der Bijl, P., Doruyter, A., De Decker, R., Lawrenson, J., Comititis, G. and Hewitson, J.P. 2015. Chest pain on exertion after the Takeuchi repair of anomalous origin of the left coronary artery: right ventricular ischemia due to severe pulmonary outflow tract obstruction. *World Journal for Pediatric and Congenital Heart Surgery*, 6(1): 90-92.
- Van Der Kleij, R.M.J.J., Crone, M., Paulussen, T.G.W.M., Van De Gaar, V. and Reis, R. 2015. A stitch in time saves nine? A repeated cross-sectional case study on the implementation of the intersectoral community approach Youth at a Healthy Weight. *BMC Public Health*, 15: 1032(13pp).
- van der Spuy, D.A., Terblanche, A.J., Karabus, S., Kriel, M., Manjra, A., Goddard, E., Gray, C.L., Lang, A.C., Risenga, S.M. and Levin, M. 2015. Diagnosis of

- food allergy: history, examination and in vivo and in vitro tests. *SAMJ South African Medical Journal*, 105(1): 69-90.
- van der Westhuizen, F.H., Sinxadi, P., Dandara, C., Smuts, I., Riordan, G.T.M., Meldau, S., Malik, A.N., Sweeney, M.G., Tsai, Y., Towers, G.W., Louw, R., Gorman, G., Payne, B., Soodyall, H. and Pepper, M.S. 2015. Understanding the implications of mitochondrial DNA variation in the health of black Southern African populations: the 2014 Workshop. *Human Mutation*, 36: 569-571.
- van Toorn, R., du Plessis, A.-M., Schaaf, H., Buys, H., Hewlett, R.H. and Schoeman, J. 2015. Clinico-radiologic response of neurologic tuberculous mass lesions in children treated with thalidomide. *Pediatric Infectious Disease Journal*, 34(2): 214-218.
- Vanker, A., Barnett, W., Nduru, P., Gie, R., Sly, P.D. and Zar, H.J. 2015. Home environment and indoor air pollution exposure in an African birth cohort study. *Science of the Total Environment*, 536: 362-367.
- von Mollendorf, C., Cohen, C., de Gouveia, L., Naidoo, N., Meiring, S., Quan, V., Lindani, S., Moore, D., Reubenson, G., Moshe, M., Eley, B.S., Hallbauer, U., Finlayson, H., Madhi, S., Conklin, L., Zell, E.R., Klugman, K.P., Whitney, C.G. and von Gottberg, A. 2015. Risk factors for invasive pneumococcal disease among children less than 5 years of age in a high HIV prevalence setting, South Africa, 2010 to 2012. *Pediatric Infectious Disease Journal*, 34(1): 27-34.
- von Mollendorf, C., von Gottberg, A., Tempia, S., Meiring, S., de Gouveia, L., Quan, V., Lengana, S., Avenant, T., du Plessis, N., Eley, B.S., Finlayson, H., Reubenson, G., Moshe, M., O'Brien, K.L., Klugman, K.P., Whitney, C.G. and Cohen, C. 2015. Increased risk for and mortality from invasive pneumococcal disease in HIV-exposed but uninfected infants aged <1 year in South Africa, 2009-2013. *Clinical Infectious Diseases*, 60(9): 1346-1356.
- Walker, K.G., de Vries, P.J., Stein, D.J. and Wilmshurst, J. 2015. Sydenham Chorea and PANDAS in South Africa: review of evidence and recommendations for management in resource-poor countries. *Journal of Child Neurology*, 30(7): 850-859.
- Webb, K., Hlela, C., Jordaan, H.F., Suliman, S., Scriba, T., Lipsker, D. and Scott, C. 2015. A review and proposed approach to the neutrophilic dermatoses of childhood. *Pediatric Dermatology*, 32(4): 437-446.
- Webb, N.J.A., Douglas, S.E., Rajai, A., Roberts, S.A., Grenda, R., Marks, S.D., Watson, A.R., Fitzpatrick, M., Vondrak, K., Maxwell, H., Jaray, J., Van Damme-Lombaerts, R., Milford, D.V., Godefroid, N., Cochat, P., Ognjanovic, M., Murer, L., McCulloch, M. and Tonshoff, B. 2015. Corticosteroid-free kidney transplantation improves growth: 2-year follow-up of the TWIST randomized controlled trial. *Transplantation*, 99: 1178-1185.
- Westwood, A.T.R. 2015. Nutrition in children with long-term health conditions. *SAMJ South African Medical Journal*, 105(7): 606(4pp).
- Williams, N., Nefdt, W.M. and Wilmshurst, J. 2015. Epilepsy South Africa: turning obstacles into true potential. *Epilepsia*, 56(2): 184-187.
- Wilmshurst, J. 2015. Management of children with status epilepticus. *Journal of the International Child Neurology Association (JICNA)*, 15: 104(5pp).
- Wilmshurst, J., Burman, R., Gaillard, W.D. and Cross, J.H. 2015. Treatment of infants with epilepsy: common practices around the world. *Epilepsia*, 56(7): 1033-1046.
- Wilmshurst, J., Gaillard, W.D., Vinayan, K.P., Tsuchida, T.N., Plouin, P., Van Bogaert, P., Carrisoza, J., Elia, M., Craiu, D., Jovic, N.J., Nordli, D., Hirtz, D., Wong, V.C.N., Glauser, T., Mizrahi, E.M. and Cross, J.H. 2015. Summary of recommendations for the management of infantile seizures: task force report for the ILAE Commission of Pediatrics. *Epilepsia*, 56(8): 1185-1197.
- Wood, R.C., Luabeya, K.K.A., Weigel, K.M., Wilbur, A.K., Jones-Engel, L., Hatherill, M. and Cangelosi, G.A. 2015. Detection of mycobacterium tuberculosis DNA on the oral mucosa of tuberculosis patients. *Scientific Reports*, 5: 8668(5pp).
- Wortmann, S.B., van Hasselt, P.M., Baric, I., Burlina, A., Darin, N., Horster, F., Coker, M., Ucar, S.K., Krumina, Z., Naess, K., Ngu, L.H., Pronicka, E., Riordan, G.T.M., Santer, R., Wassmer, E., Zschoke, J., Schiff, M., de Meirleir, L., Alowain, M.A., Smeitink, J.A.M., Morava, E., Kozicz, T., Wevers, R.A., Wolf, N.I. and Willemsen, M.A. 2015. Eyes on MEGDEL: distinctive basal ganglia involvement in dystonia deafness syndrome. *Neuropediatrics*, 46: 98-103.
- Zampoli, M., Kappos, A., Verwey, C., Zar, H.J. and Mamthuba, R. 2015. Impact of fibrinolytics on the outcome of empyema in South African children. *SAMJ South African Medical Journal*, 105(7): 549-553.
- Zampoli, M., Kappos, A., Wolter, N., von Gottberg, A., Verwey, C., Mamthuba, R. and Zar, H.J. 2015. Etiology and incidence of pleural empyema in South African children. *Pediatric Infectious Disease Journal*, 34(2): 1305-1310.
- Zar, H.J. and Andronikou, S. 2015. Chest x-rays for screening of paediatric PTB: child selection and standardised radiological criteria are key. *International Journal of Tuberculosis and Lung Disease*, 19(12): 1411.
- Zar, H.J. and Polack, F.P. 2015. Childhood pneumonia: the role of viruses. *Thorax*, 70(9): 811-812.

Zar, H.J. and Weinberg, E.G. 2015. Max Klein: a great man and a great paediatrician. *Thorax*, 70(4): 396-397.

Zar, H.J., Barnett, W., Myer, L., Stein, D.J. and Nicol, M.P. 2015. Investigating the early-life determinants of illness in Africa: the Drakenstein Child Health Study. *Thorax*, 70: 592-594.

Zar, H.J., Bateman, E.D., Potter, P.C., Bousquet, J., Schunemann, H.J. and Fonseca, J. 2015. MACVIA-ARIA Sentinel Network for allergic rhinitis (MASK-rhinitis): the new generation guideline implementation. *Allergy*, 70: 1372-1392.

Zar, H.J., Green, R.J. and Weinberg, E.G. 2015. Max Klein, 1941-2015. *SAMJ South African Medical Journal*, 105(4): 254-255.

Zar, H.J., White, D.A., Morrow, B., Feldman, C., Risenga, S.M., Masekela, R., Lewis, H., Jeena, P.M. and Madhi, S.A. 2015. The bronchiolitis season is upon us - recommendations for the management and prevention of acute viral bronchiolitis. *SAMJ South African Medical Journal*, 105(7): 525-526.

Zar, H.J., Workman, L., Little, F. and Nicol, M.P. 2015. Diagnosis of pulmonary tuberculosis in children: assessment of the 2012 National Institutes of Health expert consensus criteria. *Clinical Infectious Diseases*, 61 (Suppl 3): S173-178.

Zuhlke, L., Engel, M.E., Karthikeyan, G., Rangarajan, S., Mackie, P., Cupido, B.J., Mauff, K., Islam, S., Joachim, A., Daniels, R., Francis, V., Ogendo, S., Gitura, B., Mondo, C., Okello, E., Lwabi, P., Al-Kebsi, M.M., Hugo-Hamman, C., Sheta, S.S., Haileamlak, A., Daniel, W., Goshu, D.Y., Abdissa, S.G., Desta, A.G., Shasho, B.A., Begna, D.M., ElSayed, A., Ibrahim, A.S., Musuku, J., Bode-Thomas, F., Okeahialam, B.N., Ige, O., Sutton, C., Misra, R., Fadl, A.A., Kennedy, N., Damasceno, A., Sani, M., Ogah, O., Olunuga, T., Elhassan, H.M.M., Mocumbi, A.O., Adeoye, A.M., Mntla, P., Ojji, D., Mucumbitsi, J., Teo, K., Yusuf, S. and Mayosi, B.M. 2015. Characteristics, complications, and gaps in evidence-based interventions in rheumatic heart disease: the Global Rheumatic Heart Disease Registry (the REMEDY study). *European Heart Journal*, 36: 1115-1122.

Zuhlke, L., Engel, M.E., Watkins, D.A. and Mayosi, B.M. 2015. Incidence, prevalence and outcome of rheumatic heart disease in South Africa: a systematic review of contemporary studies. *International Journal of Cardiology*, 199: 375-383.

# Department of Pathology

## Research Report 2015

**Head of Department: Professor Carolyn Williamson**

## DIVISION OF ANATOMICAL PATHOLOGY

**Head of Division: Professor Dhiren Govender**

### Divisional Profile

The Division of Anatomical Pathology has both diagnostic and academic components. The diagnostic laboratories form part of the National Health Laboratory Service (NHLS) complex at Groote Schuur and Red Cross War Memorial Children's hospitals.

The Diagnostic laboratories provide a diagnostic surgical pathology, cytopathology and autopsy services to GSH, the academic hospital complex and associated hospitals and clinics in the Western Cape. The division also serves as a public and private tertiary referral and consultation centre for Anatomical Pathology.

These service commitments drive most of the research programmes that are patient and disease orientated. The Division's research laboratory had 3 PhD, 2 MSc and 19 MMed during the reporting period. The Division has been involved in a range of research activities using a variety of techniques and continues to broaden its research base. The main research focus is in the field of molecular pathology pertaining to diseases that are common in South Africa and the Western Cape - these include various cancers, in particular those affecting disadvantaged population groups. Other research areas include tuberculosis, cardiomyopathy and foetal-alcohol syndrome. The Divisional staff are recipients of grants from the NRF, CANSA and NHLS Research Trust.

## Collaborative Research

The Division has active collaborations internationally and continues to establish collaborations with other Academic Pathology departments in Africa.

There are internal collaborations with the departments of Surgery, Medicine, Cardiology, Obstetrics and Gynaecology, Radiation Oncology, Human Genetics and Medical Biochemistry.

## Divisional Statistics

### Permanent and Long-Term Contract Staff (on UCT Establishment)

Professor (HOD)	1
Chief Scientific Officer	1
Administrative and Clerical Staff	1
<b>Total</b>	<b>3</b>

### Permanent Joint Academic Staff (on NHLS Establishment)

Associate Professor	3
Senior Lecturer	2
Lecturer	6
<b>Total</b>	<b>11</b>

### Honorary Staff

Honorary Senior Lecturer	1
--------------------------	---

### Students

PhD	3
Masters (MMed)	19
Masters (MSc)	2
Undergraduate (MBChB) Year 2	237
Undergraduate (MBChB) Year 3	231
Undergraduate (MBChB) Year 5 (Gynaecology)	238
Allied Health Sciences	108
BSc Hons (Biomedical)	14
<b>Total</b>	<b>852</b>

## Research Fields and Staff

### PROFESSOR DHIRENDRA GOVENDER

Pathobiology of cancers, especially breast cancer, gastrointestinal tract cancer and HIV associated cancers.

### ASSOCIATE PROFESSOR RICHARD NAIDOO

Molecular pathology and biomarkers in cancer.

### ASSOCIATE PROFESSOR HELEN WAINWRIGHT

Foetal, perinatal & neonatal pathology, placental pathology, respiratory pathology including TB, cardiac pathology including cardiomyopathy and liver disease.

### ASSOCIATE PROFESSOR KOMALA PILLAY

Paediatric pathology, lymphoma and fine needle aspiration cytology.

### DR FRANCOIS BOTHA

Renal pathology and electron microscopy

### DR DHARSHNEE CHETTY

Lymph node pathology, lymphoma

### DR MAUREEN DUFFIELD

Neuropathology, renal pathology and electron microscopy.

### DR MICHAEL LOCKETZ

Gastrointestinal tract pathology.

### DR NAEEM OSMAN

Soft tissue and bone pathology

### DR MICHAEL OTTO

Breast, gynaecological and thyroid gland pathology and tissue microarrays.

### DR HUE-TSI WU

Gynaecological and urological pathology and tissue microarrays.

### Visitors

Professor Mary Sheppard (UK)  
Dr Ann Nelson (USA)  
Dr Brian Benatar (UK)  
Professor M Tanko (Botswana)  
Dr S Sayed (Kenya)

## Contact Details

Postal Address: Room 4.10, Level 4, Falmouth Building, Faculty of Health Sciences, UCT, Anzio Road, Observatory, 7925  
Telephone: +27 21 406 6162  
Fax: +27 21 404 7611

Email: [Dhiren.Govender@uct.ac.za](mailto:Dhiren.Govender@uct.ac.za)

Website: <http://www.anatomicalpathology.uct.ac.za/>

## DIVISION OF CHEMICAL PATHOLOGY

**Head of Division: Professor David Marais**

### Divisional Profile

The Division of Chemical Pathology integrates diagnosis, training and research in a platform comprising laboratories in Groote Schuur Hospital, Red Cross Children's War Memorial Hospital, and the Falmouth Building at the University of Cape Town. Additionally, there is an overlap with clinical pathology training and research when these registrars rotate through chemical pathology.

Inherited metabolic disease assays are done at the Red Cross Hospital laboratory. Lipidology as well as other metabolic disorders undergo further investigation in the Falmouth Building, including cell culture and chromatography. Direct analysis in real time chromatography system is under development in the Falmouth Building. Clinical pathology training is coordinated by Dr F Omar. Funding is through contract research and the MRC for Lipidology. Most of the staff is supported by the NHLS. Some staff is on secondment from the provincial government and on soft money.

### Divisional Statistics

#### Permanent and Long-Term Contract Staff (on UCT Establishment)

Professor (HOD)	1
Scientist (non GOB)	2
Senior Technical Officer (Departmental)	1
Chief Scientific Officer (Departmental)	1
Administrative and Clerical Staff	1
Technical Officer	1
<b>Total</b>	<b>7</b>

#### Permanent Joint Academic Staff (on NHLS Establishment)

Associate Professor	1
Senior Lecturer	1
Lecturer	2
Medical Scientist	2
<b>Total</b>	<b>6</b>

#### Honorary Staff

Honorary Professor	1
--------------------	---

#### Students

PhD	1
Masters (MMed)	2
MMed	3
<b>Total</b>	<b>6</b>

## Research Fields and Staff

#### Permanent Staff

##### PROFESSOR AD MARAIS (UCT)

Head of Department; Chemical Pathology

##### DR GEORGE VD WATT (RED CROSS HOSPITAL)

Associate Professor

#### Senior Lecturers

Dr F.Omar (NHLS)  
Dr D. Blackhurst (UCT)

#### Lecturers

Dr P. Fortgens (NHLS)  
Dr H. Vreede (NHLS)

#### Consultant

Dr C. Hudson (NHLS)

#### Medical Scientists

Dr J. King (NHLS)  
Dr J. McCarthy (Provincial Government)  
Ms. S Meldau (NHLS)

## Medical Technician

Bharati Ratanjee (Provincial Government)  
Technical Officer (UCT)  
Ms. Gabi Solomons  
Principal Scientific Officer (UCT)  
Mr. D Woolley  
Chief Technical Officer (UCT)  
Mr. A Mohamed  
Departmental Assistant (UCT)  
Mr. E Rossier  
Ms. M Thorpe  
Senior Secretary (UCT)  
Ms. C Van Niekerk

## Visitors

Prof D Sacks (NIH)  
Prof F Visseren (Utrecht)  
Prof G Lambert (Nantes)  
Dr M Livingstone (FM Foundation)  
Dr A Khine (Pretoria)  
Ms L Bekker (Pretoria)  
Ms L Ras (Potch NWU)

## Contact Details

Postal Address: Room 6.33, Level 6 Falmouth Building, Anzio Rd, Observatory, 7925  
Telephone: +27 21 650 6192  
Fax: +27 21 448 8150  
Email: [david.marais@uct.ac.za](mailto:david.marais@uct.ac.za);  
[chantal.vanniekerk@uct.ac.za](mailto:chantal.vanniekerk@uct.ac.za)  
Website: [www.chemicalpathology.uct.ac.za](http://www.chemicalpathology.uct.ac.za)

# Division of Forensic Medicine & Toxicology

(Including the Gender, Health and Justice Research Unit)

**Head of Division: Professor Lorna Martin**

## Divisional Profile

A large component of operational activity of the Division of Forensic Medicine is that of service delivery. The academic staff are on the joint staff establishment of the University of Cape Town and the WCG: Health: Forensic Pathology Service. This is a fairly new programme of the WCG: Health, established in April 2006, when the responsibility of "mortuary services" was transferred to the Provincial Health Service from SAPS. We are responsible for the medico-legal investigation of death of all persons who die within the Metropol, an area comprising an estimated 6.2 million persons (mid 2015 estimates), stretching from Atlantis on the West Coast, the Peninsula, the City, to everything south of the N2 up to, but not including, Khayelitsha. Our clinical services are based at Salt River Mortuary and we perform approximately 3600 autopsies per annum.

The Division now has dedicated research laboratories in the Falmouth Building. We provide a clinical teaching neuropathology laboratory with a specialist neuropathologist, a forensic histopathology laboratory, a forensic entomology laboratory, climate control laboratory and forensic science laboratories. The Division has limited research activities due to our heavy investigative service load, but this is slowly increasing with our new M Phil offering in Biomedical Forensic Sciences.

There are active collaborations with the departments of Anatomical Pathology, Surgery, Obstetrics and Gynaecology, Human Genetics, Paediatrics and Psychiatry; and EMS and the Law Faculty.

A range of activities related to the role of Forensic Medicine in public policy and health promotion are being pursued. These relate specifically to violence against women and children, the deaths of children, the role of drugs and toxins in deaths, and firearm injuries. We provide input into the Provincial Injury Mortality Surveillance System (PIMSS).

## Divisional Statistics

### Permanent and Long-Term Contract Staff

Head: Clinical Department/Professor	1
Head: Clinical Unit	1
Specialists	7
Medical Officer	1
Senior Lecturer / Programme Convener	1
Lecturer	1
Chief Medical Technologist	1
Medical Technologist	1
Administrative and clerical	5
Laboratory Assistant	1
<b>Total</b>	<b>19</b>

### Students

Masters (MMed)	3
Biomedical Forensic Science (MPhil)	45
Undergraduate (LLB) – Final year	37
Special Study Module – Year 2	3
<b>Total</b>	<b>88</b>

## Research Fields and Staff

### Permanent Staff

#### PROFESSOR L.J. MARTIN

Professor & Head: Clinical Department: Child Death Reviews; Management protocols for rape survivors; domestic homicide; Firearm and Nonfirearm Homicide in Cape Town; monitoring implementation of rape law reforms; domestic violence guidelines for the health sector; National study of female and children homicide in South Africa; identification of areas for quality improvements in preventable trauma deaths.

#### DR G.M. KIRK

Head: Clinical Unit & Senior Lecturer: Sudden deaths in sport; firearm injuries; death notification; drug-related deaths; forensic histopathology; history of forensic medicine

#### DR Y.Y. VAN DER HEYDE

Senior Specialist & Senior Lecturer: The effects of pre-natal alcohol exposure; paediatric mortality; animal bites in children; early adolescent suicide, child homicide including child abuse; sudden unexpected death in childhood including SIDS.

#### DR L. LIEBENBERG

Senior Specialist & Senior Lecturer: Firearm fatalities and final judicial outcome; aortic disease project; mast cell Tryptase; case studies – curious deaths; atherosclerotic disease prevalence in the Cape Town population; Lodox X-ray application in the forensic setup.

Supervisory projects: Marine decomposition; firearm deaths and judicial outcome; anaphylaxis – new histological stain for mast cells and eosinophils.

#### DR M. HEYNS

Senior Lecturer: Forensic Science; Educational Research; Gross Anatomy; Forensic Entomology; Blunt force trauma to the skull; Bloodstain pattern analysis; Entomotoxicology

#### DR I.J. MOLEFE

Specialist & Lecturer: Epidemiology and analysis of injury patterns of femicide and rape homicide in Cape Town: A 10-year follow-up study; opportunistic screening for cervical cancer in rape patients; Hep B prevalence in rape patients; medical education in forensic pathology; forensic neuropathology: clinical course and outcome of patients with acute subdural haemorrhage.

#### DR S. MAISTRY

Specialist & Lecturer: Deaths on Table Mountain 2000-2011; Epidemiology, genetics and neurobiology of suicides at Salt River Forensic Pathology Laboratory 2005-2015; Genetics of mood disorders and suicide ideation; Burnt bodies; Genetics in victims of intentional organophosphate ingestion

#### DR S. MFOLOZI

Specialist & Lecturer: Development of the NecroChronometer: determining the post-mortem interval using a combination of three methods and location-specific weather information; Thanatochronometry (mathematical estimation of the interval of death).

#### DR I.H. ALLI

Specialist & Lecturer: Forensic odontology; Combatting human trafficking; Deaths from Explosions.

Research studies: The incidence of rape associated with taxi as a mode of transport, in a single Thutuzela Centre over a 5 year period; Grading the degree of difficulty of post-mortems.



### **DR M. DATE-CHONG**

Specialist & Lecturer: Sudden Cardiac Deaths and Undetermined causes of death, Child Mortality, Quantification of Violence in cases of Homicide.

### **Contract staff**

#### **L.J. HEATHFIELD**

Lecturer: Biomedical Forensic Science; molecular autopsies, sudden unexpected death, molecular phenotyping, next generation sequencing, forensic DNA profiling, body fluid identification

#### **B. DAVIES**

Specialist Scientist (Forensic Toxicology) & Lecturer: Postmortem toxicology: analyses and interpretations; Pesticide-related fatalities; Lean-six sigma efficiency in forensics; Toxicogenetics; Pharmacognosy; Novel Psychoactive Substances; Drug-facilitated sexual assault

## **Contact Details**

Postal Address: Division of Forensic Medicine, P O Box 13914, Mowbray, 7705  
Telephone: +27 21 406 6110  
Fax: +27 21 448 1249  
Email: [june.mehl@uct.ac.za](mailto:june.mehl@uct.ac.za); [lornaj.martin@uct.ac.za](mailto:lornaj.martin@uct.ac.za)  
Website: [www.forensicmedicine.uct.ac.za](http://www.forensicmedicine.uct.ac.za)

# **Gender Health and Justice Research unit**

**Director: Associate Professor Lillian Artz**

## **Unit Profile**

The GHJRU is an interdisciplinary research unit that unites scholars, NGOs and practitioners in pursuit of the elimination of violence against women and children in Southern Africa (and beyond). We develop and implement innovative, interdisciplinary research and social interventions to address violence against women and children in a variety of social, political and institutional settings. We have a proven history of empirical, evaluation and monitoring projects, many of which are well cited in the literature and are foundational studies in the areas of domestic violence, sexual offences and sexual and reproductive rights. We use our empirical research to develop well-informed, evidence-based advocacy positions to support legal and policy reform in South Africa and similarly situated countries.

The Gender, Health & Justice Research Unit draws together scholars from various disciplines, including criminology, forensic pathology, sociology, social work and psychology. The mission of the Unit is to improve service provision to victims of crime, violence and human rights violations, to facilitate violence prevention, and to promote access to justice in Southern and Eastern Africa through interdisciplinary research, advocacy and education.

The Unit aims to fulfil its mission by focussing on five core areas: Research Advocacy, Education, Training and Technical Assistance.

## **Unit Staff**

### **Permanent and Long-Term Contract Staff**

Research Staff	7
Associate Research Staff	5
Interns	7
Administrative	1
<b>Total</b>	<b>20</b>

## Research Fields and Staff

### ASSOCIATE PROFESSOR LILLIAN ARTZ

Women, health and law reform; sexual offences; domestic violence; the medico-legal management of survivors of violence in conflict-affected and post-conflict states; incarcerated women; prison reform and torture prevention.

### DR ALEXANDRA MULLER

Gender, sexuality and health; access to health care; gender-based violence; heteronormativity and health professions education; sexual and reproductive health rights; sexual and gender minority health; adolescent health and sexuality

### HAYLEY GALGUT

Human Rights, Gender and Labour Law; gender-based violence; access to justice; intersectionality and transitional/transformational justice in conflict-affected and post-conflict states.

### DR AISLING HEATH

Domestic violence in South Africa and child justice in post-conflict societies; the changing nature of donor funding in post-conflict countries; gender and ethnicity.

### TALIA MEER

Gender-based violence; women's rights; LGBTI rights; access to justice and disability rights.

### KRISTEN DASKILEWICZ

Sexual and reproductive health and rights; sexual and gender minority health; termination of pregnancy and maternal health and rights

### HARSHA GIHWALA

Sexual offences; gender and law; sentencing.

## Research Associates

### PROFESSOR JEANNE FLAVIN (FORDHAM UNIVERSITY)

The impact of the criminal justice system on women; social and civil rights of women; sexual and reproductive rights.

### PROFESSOR HELENE COMBRINCK (UNIVERSITY OF THE WESTERN CAPE)

Disability law and policy; domestic violence and disability.

### JILLIAN BUTTERWORTH (PRIVATE)

Survivors and perpetrators of sexual violence, with a focus on childhood sexual abuse; adolescent sexual perpetrators, assessment and rehabilitation of perpetrators of sexual violence.

### GRAY ASCHMAN (NEW YORK)

Protection of detainees' and prisoners' rights; improving the response to gender-based violence; changing societal attitudes towards gender and gender-based violence.

### DR CARMEN CORRAL-BULNES

Gender-based violence, incarceration, women's mental health, domestic homicide and aggressive behaviour in intimate relationships.

## Administration

Leslene Stott

## Interns

Sarah Spencer  
Valerie Grand-Maison  
Marie Lunau  
Kate McAuliff  
Rebecca Smith  
Rohini Aggarwal  
Swantje Tiedemann

## Contact Details

Postal Address: Gender, Health & Justice Research Unit, Entrance 1, Level 1, Falmouth Building, Faculty of Health Sciences, UCT, Anzio Road, Observatory, 7925

Telephone: +27 21 406 6024

Fax: +27 21 406 6020

Email: [GHJRUatUCT@gmail.com](mailto:GHJRUatUCT@gmail.com) or [Lillian.Artz@uct.ac.za](mailto:Lillian.Artz@uct.ac.za)

Website: <http://www.ghjru.uct.ac.za>

## DIVISION OF HAEMATOLOGY AND UCT LEUKAEMIA UNIT

**Head of Division: Professor Nicolas Novitzky**

### Divisional Profile

The Division of Haematology at Groote Schuur Hospital is a complex unit with multi-disciplinary activities that include outpatient clinics, admission beds as well as diagnostic and research laboratories. The clinical services are organised under the umbrella of the Department of Internal Medicine, while the laboratory diagnostic sections are under the broader organisation of the Department of Pathology and National Health Laboratory Service (NHLS) multidisciplinary lab in C17-C21.

The laboratory continues to offer comprehensive diagnostic testing for the diagnosis and management of all haematological malignancies, genetic anaemias and coagulation disorders. It also offers diagnostic services for a Comprehensive Haemophilia Centre, as well as to a number of tertiary / quaternary programs. This laboratory also acts as a tertiary referral centre for local hospitals and outlying clinics of the Western Cape and referral samples from the Eastern Cape. Samples from private laboratories and the Eastern Cape are referred for flow cytometry and molecular diagnosis of haematological malignancies.

The routine and molecular haematology laboratories were again successfully accredited by SANAS.

## Divisional Statistics

### Permanent and Long-Term Contract Staff

Professor	1
<b>Clinical Services</b>	
Senior Specialists	2
Haematology Fellows	2
Medical Registrars	2
Senior House Officers	2
Chief Professional Nurse	2
Administrative Clerical Staff	3
<b>Diagnostic Service</b>	
Principal Pathologists (D4)	1
Pathologists	3
Pathologist Part time Honorary	1
Scientist	1
Pathology Registrars	5
Laboratory Manager	1
Medical Technologists	14
Student Medical Technologists	3
Technicians	4
<b>UCT Leukaemia Unit</b>	
Scientists	1
Research Technologists	1
Clinical Research Coordinator	1
Administrative Clerical Staff	1
Laboratory Assistants	2
<b>Total</b>	<b>53</b>

### Students

Masters	3
MMed	3
Honours	1
<b>Total</b>	<b>8</b>

## Research Fields and Staff

### PROFESSOR NICOLAS NOVITZKY

Haematopoietic stem cell biology; clonogenic assays; haematopoietic stem cell transplantation; immune reconstitution; haematological malignancies

### DR CECILE DU TOIT

Haematopoietic stem cell transplantation; haematological malignancies; haemophilia

### DR ESTELLE VERBURGH

Thrombophilia; stem cell transplantation; Myeloproliferative disorders

### DR JESSICA OPIE

Molecular biology of neoplasia: chronic myelogenous leukaemia; coagulation abnormalities

### DR KAREN SHIRES

Molecular biology and diagnostics

### DR SHAHEEN MOWLA

Burkitt's lymphoma and HIV associated malignancies. Flow cytometry and molecular biology

### MRS RYGANA ABDULLA

Cellular biology of neoplasia; clonogenic assays

## Contact Details

Postal Address: 6<sup>th</sup> Floor, Chris Barnard Building, Anzio Road, Observatory, 7925

Telephone: +27 21 650 4513/404 3073

Fax: +27 21 448 8607

Email: [Coleen.Fredericks@uct.ac.za](mailto:Coleen.Fredericks@uct.ac.za)

Website: <http://www.haematology.uct.ac.za/>

## DIVISION OF HUMAN GENETICS

(Including the MRC/UCT Human Genetics Research Unit)

**Head of Division: Professor Raj Ramesar**

### Divisional Profile

The Division is unusual in that it conducts its business through three interacting 'institutions':

1. an extensive clinical service through the Provincial Government of the Western Cape;
2. its laboratory diagnostic services through the National Health Laboratory Services, and
3. Its academic (research and teaching) activities through the University.

The UCT/MRC Human Genetics Research Unit was created while the Human Genome Project was underway. The mandate for this Unit was (i) primarily one of capacity development in the field of Genetics and Genomics, (ii) understanding the relevance of developments in genetics and genomics, as they may be applicable to South Africans, and (iii) the translation of research to the clinical environment.

An emphasis of this Unit is the investment in understanding the rich Human Diversity on our continent and relating this to disease and health. In this regard there has been a head-on engagement with state of the art high-throughput genetic studies of indigenous southern African population populations, which has resulted in the empowerment and capacity development of South African researchers in large scale data handling and analysis. The Division is also involved in several Human, Hereditary and Health Africa projects in networks spanning the continent ([www.h3africa.org](http://www.h3africa.org)), and which are funded by the National Institutes of Health (USA) and the Wellcome Trust (UK).

A further investment has been in taking genetics to the 'clinical' high street. A measure of relevance and success of the Unit in this regard, is its attraction to other mainstream clinical practitioners e.g. from the disciplines of Gastroenterology, Nephrology, Internal Medicine, Psychiatry, Surgery, and Dentistry (UWC) who are completing PhDs in Genetics, in this Unit. A substantial effort has been made into introducing genetics/genomics into the undergraduate MBChB curriculum and to specialist groups.

## Divisional Statistics

### Permanent and Long-Term Contract Staff

Professors	3
Senior Lecturers	2
Research Staff	4
Chief Scientific Officer	1
Administrative and Secretarial Staff	1
Departmental Assistants	1
<b>Total</b>	<b>12</b>

### Emeritus and Honorary Staff

Emeritus Professors	2
Honorary Professor	2
Honorary Lecturer	1
<b>Total</b>	<b>5</b>

### Students and Postdoctoral Fellows

Postdoctoral Fellows	3
Doctoral	14
Masters	20
Honours	7
<b>Total</b>	<b>44</b>

### PGWC/UCT Personnel

Senior Specialist	1
Professor	1
Registered Nurses	2
Supernumerary Registrars	2
Registrars	1
Genetic Counsellor	1
Sessional Medical Officer	1
Genetic Counsellor Interns	2
<b>Total</b>	<b>11</b>

### NHLS Personnel

Discipline Specific Lab Manager	1
Medical Technologists	5
Medical Scientist	1
Laboratory Clerk	1
<b>Total</b>	<b>8</b>

## Research Fields and Staff

### PROFESSOR RAJ S. RAMESAR (UCT/PGWC/NHLS)

Head of Division and Personal Chair  
 Director: MRC Human Genetics Research Unit  
 Chairman: NGO The Africa Genome Education Institute  
 Principal Investigator: Genetics of Bipolar Disorder/Schizophrenia; Genetics of Retinal Degenerative Disorders; Molecular Genetics of Complex Disorders; Pharmacogenetics – Adverse Drug Reactions in Cancers

### EMERITUS PROFESSOR JACQUIE GREENBERG

Principal Investigator: Genetics of Neurological Disorders; Genetics of Neuromuscular Disorders  
 Co-Principal Investigator: Genetics of Retinal Degenerative Disorders

### EMERITUS PROFESSOR PETER BEIGHTON

Principal Investigator: Genetics Connective Tissue Disorders

### HONORARY PROFESSOR WILMOT JAMES

### HONORARY PROFESSOR: CHARLES NOHUOMA ROTIMI

Honorary Senior Lecturer: Dr. Sol Zieff

### PROFESSOR AMBROISE WONKAM

Principal Investigator: Phenotypic correlation of sickle cell anemia to genotypic variations; Genetics of Deafness

### PROFESSOR COLLET DANDARA

Principal Investigator: Pharmacogenomics

### DR KAREN FIEGGEN (PGWC/UCT)

Senior Specialist: Principal Investigator: X- linked Mental Retardation; Bardet-Biedl Syndrome

### MRS THERESA RUPPELT (NHLS)

Laboratory Manager: Cytogenetics

## Contact Details

Postal Address: Division of Human Genetics,  
Department of Pathology, Level 3, Suite N3.14  
Werner and Beit North Building; Institute for  
Infectious Diseases and Molecular Medicine,  
Faculty of Health Sciences, University of Cape  
Town, 7925, Observatory  
Telephone: +27 21 406 6995  
Fax: +27 21 650 2010  
Email: [Raj.Ramesar@uct.ac.za](mailto:Raj.Ramesar@uct.ac.za)  
Website: [www.humangenetics.uct.ac.za](http://www.humangenetics.uct.ac.za)

## DIVISION OF IMMUNOLOGY

**Head of Division: Professor Clive Gray**

### Divisional Profile

The Division of Immunology conducts a range of dynamic activities spanning basic, clinical and translational research to laboratory diagnostic testing in the National Health Laboratory Services at Groote Schuur Hospital. All activities are driven by our vision of "Driving Science to promote World Health". Numerous staff are NRF rated and Full or Associate members of the Institute of Infectious Disease and Molecular Medicine (IDM), making up a large thrust of immunology research within the IDM. Collectively, research groups are funded from various sources, including the NRF, ALLSA, Claude Leon Foundation, PRF, DST, Wellcome Trust, MRC UK, European Union, Royal Society, World University Network, Sir Halley Stewart foundation, CIHR, IDRC, AXA Foundation, and the National Institutes of Health. The combined functions of the Laboratory for Tissue Immunology (LTI) and the Clinical Immunology and Allergy Laboratory are responsible for providing NHLS activities. The LTI provides services for cross-matching and pre-formed antibody testing for solid organ and bone marrow transplantation and is accredited with the European Federation of Immunogenetics (EFI) and is the only such accredited laboratory in Africa. The Clinical Immunology and Allergy Laboratory perform routine diagnostic testing for autoantibodies and different allergies.

### Divisional Statistics

#### Permanent and Long-Term Contract Staff (UCT/NHLS)

Professors	3
Associate Professors	1
Lecturers - Senior	2
Lecturers - Junior	4
Research Staff	11
Technical Staff	12
Technical Support Staff	4
Administrative Staff	2
<b>Total</b>	<b>39</b>

## NHLS Personnel

Discipline Specific Lab Managers	2
Medical Technologists	5
<b>Total</b>	<b>7</b>

## Students and Postdoctoral Fellows

Postdoctoral Fellows	14
Doctoral	23
Masters	10
Honours	5
<b>Total</b>	<b>52</b>

## Research Fields and Staff

### PROFESSOR CLIVE GRAY

Head and Chair and Professor of Immunology, Joint UCT/NHLS

Reproductive Immunology and Immune Ontogeny in HIV exposed infants and understanding the immunological mechanisms of medical male circumcision to prevent HIV acquisition

### PROFESSOR FRANK BROMBACHER

Professor of Immunology  
Immunology of infectious diseases, including Tuberculosis, African Trypanosomiasis, Leishmaniasis, Bilharzia and other Helminth infections

### PROFESSOR MUAZZAM JACOBS

Joint UCT/NHLS Medical Scientist  
Understanding host pathogen interaction and associated immune mechanisms that bring about protection against tuberculosis infection

### ASSOCIATE PROFESSOR WILLIAM HORSNELL

Understanding host pathogen interaction and associated immune mechanisms that bring about protection against tuberculosis infection

### DR HEATHER JASPAN

investigating the impact of infant feeding modes on changes in the the gut microbiome and how these alterations impact in vaccine immunity and immune activation in early infancy.

### DR JENNIFER CLAIRE HOVING

Understanding host immune responses to disease with a particular focus on HIV-related fungal infections and *Mycobacterium tuberculosis*.

### DR ROANNE KEETON

Investigating mechanisms of fungal infections to provide new insights into protective immunity

### DR RETO GULER

Immunology of experimental Tuberculosis infection and non-coding RNA host-directed targets

### DR NAI-JEN HSU

Understanding host pathogen interaction and associated immune mechanisms that bring about protection against tuberculosis infection

## Postdoctoral Fellows

### DR SURAJ PARIHAR

Investigating the use of Statins as treatment for TB infection

### DR TIROYAONE BROMBACHER

Neuro-immunological effects of *Nippostrongylus brasiliensis* on cognitive function

### DR MATTHEW DARBY

Role of acetylcholine in regulating immunity

### DR RAMONA HURDAYAL

The role of IL-4R $\alpha$  signaling on cell-specific populations during cutaneous Leishmaniasis

### DR JUSTIN NONO

Mechanisms of type 2 mediated diseases: Helminthiasis, Allergies and fibrotic disorders

### DR OUSMAN TANGUE

Identification of host microRNA as potential Drug targets against tuberculosis

### DR ANTHONIO ADEFUYE

The impact of mother-Infant feeding modes and matched/mismatched Human Leukocyte Antigen (HLA) on Infant Immune activation in HIV exposed uninfected infants at birth

### DR SELENA FERRIAN

Identity of cellular biomarkers to predict multi-drug resistant TB treatment outcomes

### DR PAULIN ESSONE NDONGO

An expression atlas on macrophage activation and perturbation by *Mycobacteria Tuberculosis* (MTB) using proteomics

### DR AIME MARCEL TOGO PASSO

Retracting the early phylogeography and evolutionary dynamics of HIV-1 group M-virus

### DR EMILY TANGIE

The effect of *Plasmodium berghei* infection on BCG-induced memory T cell and B cell immune responses against *M. tb* in wild type C57BL/6 mice

### DR NGIAMBUDULU FRANCISCO

Immune regulation in kidney transplant recipients

**DR MICHELLE FISHER**

Elucidating the role of IL-4 in controlling Plasmodium chabaudi AS malaria infections in BALB/c mice:

A critical role for IL-4R $\alpha$  responsive B-cells but not T-cells during recrudescence infection

**DR KATIE VILJOEN-LENNARD**

The Role of the Microbiome in HIV susceptibility in South African adolescents

**Distinguished Visitors****BENJAMIN DEWALS**

FARAH Faculty of Veterinary Medicine, Belgium

**HARUKAZU SUZUKI**

Riken Institute, Japan

**DEBROSKI HERBERT**

University of California

**MURRAY SELKIRK**

Imperial College, London

**THERESA COETZER**

University of Kwazulu Natal

**MARIA GAGLIARDI**

FCM Nova, Lisbon, Portugal

**GUIDO FERRARI**

Duke University, USA

**MICHELLE LETARTE**

International Union of Immunological Societies - IUIS

**INGRID FAE**

EFI Inspector, Univ. Vienna

**SABINE SCHERER**

EFI Inspector, Univ. Heidelberg, Germany

**BERNHARDT RYFFEL**

CNRS, Lyon, France

**RICK KOUP**

NIH Vaccine Research Center

**TONY MOODY**

Duke University, USA

**SIMOM DRAPER**

Jenner Institute, UK

**YAW BEDIAKO**

KEMRI, Kenya

**MARIO ROEDERER**

University of Oxford, UK

**TOM HOPE**

North Western University, Chicago

**MICHAEL BETTS**

University Pennsylvania

**Contact Details**

Postal Address: Division of Immunology,  
Department of Pathology, Room 3.25 Falmouth  
Building, Health Sciences Faculty, Anzio Road,  
Observatory 7925

Telephone: +27 21 406 6616

Fax: +27 21 406 6029

Email: [dhuraiyah.abdullatief@uct.ac.za](mailto:dhuraiyah.abdullatief@uct.ac.za)

Website: [www.immunopaedia.org.za](http://www.immunopaedia.org.za)



## DIVISION OF MEDICAL MICROBIOLOGY

### Head of Division: Professor Mark Nicol

The Division of Medical Microbiology ([www.medmicro.uct.ac.za](http://www.medmicro.uct.ac.za)) encompasses a tertiary diagnostic microbiology service, provided by the National Health Laboratory Service, Groote Schuur Hospital and an active research programme based at the Health Sciences Campus and in the diagnostic laboratory. The composition of the Division is complex with staff drawn from the University of Cape Town, Groote Schuur Hospital and the National Health Laboratory Service and National Institute for Communicable Diseases. This mix of pathologists, scientists and students offers the opportunity for creative, cross-disciplinary research.

We aim to conduct research that is relevant to the needs of diagnostic microbiology services and focused on important infectious diseases in South Africa. This includes work on childhood febrile illness (pneumonia, meningitis and diarrhoea), the origin and evolution of the human microbiome, the development and evaluation of novel diagnostics for tuberculosis, the epidemiology of drug-resistant tuberculosis as well as the transmission and molecular epidemiology of drug resistant pathogens within our hospitals. The Division has been successful in attracting substantial research funding from the Wellcome Trust, EDCTP, National Institutes of Health, Carnegie Foundation, Howard Hughes Medical Institute and Bill and Melinda Gates Foundation in recent years. Research output has grown steadily over the past years, with 45 publications in 2015, including several manuscripts in the leading medical journals.

The Division is the academic home of the highly regarded Molecular Microbiology Research Unit ([www.mrc.ac.za/mycobacteriology/mycobacteriology](http://www.mrc.ac.za/mycobacteriology/mycobacteriology)) headed by Prof. Valerie Mizrahi and A.Prof. Digby Warner which aims to develop and apply genetic tools for the identification, validation and characterisation of novel drug targets and vaccine candidates for tuberculosis. The Division also hosts two Wellcome Trust Fellows (Dr Helen Cox, Intermediate Fellow and Dr Mamadou Kaba, Research Training Fellow).

## Divisional Statistics

### Permanent and Long-Term Contract Staff

Professors	2
Associate Professors	1
Senior Lecturers	5
Lecturers	3
Senior Research Officer	1
Project Manager	1
Lab Manager	1
Data Manager	1
Technologists	3
Data capturers/Research Assistant	5
Clinical research staff	5
Clinical research nurse	3
Drivers	2
Administrative and Clerical Staff	2
Technical Support Staff	1
<b>Total</b>	<b>37</b>

### Honorary Staff

Honorary Professor	1
Honorary Associate Processor	1
Honorary Lecturer	1
<b>Total</b>	<b>3</b>

### Students and Postdoctoral Fellows

Postdoctoral Fellows	5
Registrars	4
Doctoral	15
Masters	7
Undergraduates (MBChB Sem 3,4 and 5)	472
<b>Total</b>	<b>540</b>

## Research Fields and Staff

### Permanent Staff

#### PROFESSOR MARK P NICOL

Development and evaluating diagnostic tests for tuberculosis; the origin and evolution of the human microbiome in early childhood; aetiology and pathogenesis of pneumonia in children.

#### PROFESSOR GREGORY HUSSEY

Understanding the dynamics of TB infection and disease in adolescents; the epidemiology of TB in infants and young children; evaluation of new TB vaccines

#### PROFESSORS VALERIE MIZRAHI AND DIGBY WARNER

Investigate fundamental aspects of the metabolism and physiology of *Mycobacterium tuberculosis* of relevance to tuberculosis drug discovery and drug resistance

#### DR C BAMFORD

Laboratory detection of multi-resistant organisms; molecular epidemiology of hospital acquired infections; rational use of antibiotics and surveillance of antimicrobial resistance; appropriate use of microbiological investigations; microbiological diagnosis of tuberculosis

#### DR PRENESHNI NAICKER

Epidemiology and Diagnosis of Leptospirosis.

Epidemiology of *Salmonella* and *Listeria monocytogenes* infection

#### DR NATALIE BEYLIS

Characterization of *Mycobacterium tuberculosis* isolates with discordant rifampicin susceptibility test results

#### DR LOURENS ROBBERT

One health, one city, the extent of shiga-toxin producing *E. coli* in Cape Town

#### DR CLINTON MOODLEY

Nasopharyngeal resistome in infants; design and validation of new molecular diagnostic tests; molecular typing and epidemiology of nosocomial infection; surveillance of multidrug resistant bacteria including carbapenem-resistant Enterobacteriaceae and vancomycin-resistant Enterococci

#### DR SINDILE NTULI

Validation of a Panfungal polymerase chain reaction (PCR) assay for the detection and identification of medically important fungi isolated in a diagnostic laboratory

#### DR CHAD CENTNER

Mycobacterial genomic diversity in blood and sputum isolates

#### DR HAFSAH TOOTLA

The Pneumococcus Urinary Antigen Test Kit: Use in the laboratory for the presumptive diagnosis of pneumococcal bacteraemia.

### Honorary Staff

#### PROFESSOR ANNE VON GOTTBERG

Studying meningococcal carriage and acquisition of carriage amongst university students in South Africa

#### ASSOCIATE PROFESSOR NELESH GOVENDER

Understanding the epidemiology of serious fungal infections (including emerging antifungal resistance) through national surveillance and outbreak investigations; monitoring and evaluating public health interventions to reduce the burden of fungal diseases

#### DR JOHN SIMPSON

Laboratory diagnosis of tuberculosis and identification of drug-resistance

### Fixed-term appointment staff

#### DR HELEN COX (WELLCOME TRUST INTERMEDIATE FELLOW)

Molecular epidemiology of drug resistant tuberculosis, including transmission and the acquisition of resistance; models of care for the treatment of drug-resistant tuberculosis; impact of new diagnostics for TB and TB drug resistance on patient outcomes

#### DR ANNA COUSSENS

Identifying biomarkers of subclinical TB and protective immunity at disease sites; host-directed therapies for TB-HIV; defining mechanisms of HIV-induced cell death in TB-HIV

#### DR LEMESE AH TOW EDRIES

The evaluation of inter-seasonal house dust microbiota in the Western Cape; molecular detection of *Helicobacter pylori* in stool of apparently healthy children; the role of *Moraxella catarrhalis* in the Nasopharynx of young children; *Haemophilus influenzae* colonisation patterns in young children

#### DR LINDY DICKSON-HALL

Optimising Health Systems to improve delivery of decentralised care for patients with drug resistant tuberculosis

### **DR MAMADOU KABA**

Molecular epidemiology of infectious diseases  
Study of human microbiome in health and disease conditions  
Antibiotic resistance

#### **Postdoctoral Staff**

### **DR ELLOISE DU TOIT**

Household dust microbial burden and the development of recurrent wheezing; breastmilk microbiome and metabolome and its association with wheezing; nasopharyngeal microbial community and its association with wheezing. All are part of The Drakenstein Child Lung Health Study, South Africa

### **DR VERONICA ALLEN**

Rifampicin resistance in *M. tuberculosis*; the role of *Moraxella catarrhalis* in the nasopharynx of young children in the Drakenstein ChildHealth Study; TB diagnostics

### **DR VINAYAK SINGH**

MM4TB

### **DR ATICA MOOSA**

Smart screening for New TB drug discovery

### **DR GABRIELE MASHABELA**

Vitamin B<sub>2</sub> metabolism in *M. tuberculosis*

## **Contact Details**

Postal Address: Division of Medical Microbiology,  
University of Cape Town, Medical School, Anzio  
Road, Observatory, 7925

Telephone: +27 21 406 6727 (Doris Moiloa)

Fax: +27 21 406 6210

Email: [doris.moiloa@uct.ac.za](mailto:doris.moiloa@uct.ac.za)

Website: <http://www.medmicro.uct.ac.za>

## **DIVISION OF MEDICAL VIROLOGY**

**Head of Department Pathology &  
Head of Division of Medical Virology:  
Professor Carolyn Williamson**

### **Division Profile**

The Division of Medical Virology contributes to the diagnosis, treatment, prevention and eradication of viral diseases in South Africa through a diagnostic laboratory service together with a dynamic research programme. Research within the Division focuses on Human Immunodeficiency Virus (HIV), Human Papillomavirus (HPV), HIV and major co-infections, virus discovery and vaccinology. Research is performed within the Institute of Infectious Disease and Molecular Medicine and in the Groote Schuur NHLS diagnostic laboratory. In HIV prevention, transmission and pathogenesis, the Division has contributed to our understanding of viral determinants in eliciting broadly cross-neutralizing antibodies; HIV superinfection; the impact of mucosal inflammation and other sexually transmitted co-infections on HIV transmission; T cell immunity to HIV; and HIV vaccine development. Application of next generation sequencing technology has resulted in the discovery of novel HPVs and other viruses. Research projects also detect and characterise new potential pathogens in diagnostic samples, evaluate point of care technology for HIV viral load and early infant diagnosis and determine the epidemiology of hepatitis viruses. The Virology Diagnostic Laboratory is a SANAS accreditation facility within the NHLS. It provides a comprehensive service to GSH and Red Cross Children's Hospital, and serves as a regional reference centre providing a clinical and diagnostic service to local teaching hospitals and surrounding public health clinics.

## Divisional Statistics

### Permanent and Long-Term Contract Staff

Professor	2
Associate Professor	2
Senior Lecturers	5
Lecturers	10
Technical Support Staff	24
Administrative and Clerical Staff	6
Departmental Assistant	2
Lab Assistant	1
<b>Total</b>	<b>52</b>

### Emeritus and Honorary Staff

Emeritus Professor	1
Honorary Research Associates	3
<b>Total</b>	<b>4</b>

### Students and Postdoctoral Fellows

Postdoctoral Fellows	4
Doctoral	24
Masters	4
Honours	5
Undergraduates MBChB semester 3,4 & 5	447
<b>Total</b>	<b>484</b>

## Research Fields and Staff

### Permanent Staff

#### PROFESSOR ANNA-LISE WILLIAMSON

HIV/HPV, poxviruses, vaccine development, microbiome

#### PROFESSOR CAROLYN WILLIAMSON

Head of Department and of Division of Medical Virology.

HIV diversity and pathogenesis; HIV-1 vaccine development, HIV cure

#### ASSOCIATE PROFESSOR DIANA HARDIE

Head of Diagnostic Lab, viral infections in immunocompromised patients

#### ASSOCIATE PROFESSOR JO-ANN PASSMORE

HIV/HPV Mucosal Immunology; genital tract, innate immunity, cytokine biomarkers, genital tract immune activation

#### DR MARVIN HSIAO

Pathologist and Senior Lecturer, cytomegalovirus and molecular diagnostics

#### DR STEPHEN KORSMAN

Pathologist and Senior Lecturer, Hepatitis B, molecular diagnostics and outreach

#### DR WENDY BURGERS

Senior Lecturer, HIV Pathogenesis, HIV-TB co-infection, HIV vaccine immunology

### Contract Staff

#### AABIDA KHAN

Senior Registrar and Lecturer

#### NOKWAZI NKOSI

Senior Registrar and Lecturer

#### ANNABEL ENOCH

Registrar and Lecturer

#### DR GERALD CHEGE

Senior Lecturer and Senior Research Officer, HIV Vaccines

#### DR CATHERINE RIOU

Senior Lecturer and Senior Research Officer, HIV T cell immunology, HIV/TB co-infection, HIV-viral co-infections

#### DR MELISSA-ROSE ABRAHAMS

Lecturer and Research Officer, molecular biology of HIV, viral sequencing, fitness and pathogenesis studies

#### DR ROSAMUND CHAPMAN

Lecturer and Research Officer, Vaccine vectors

#### DR NIKI DOUGLASS

Lecturer and Research Officer, Pox viruses

#### DR ZIYAAD VALLEY-OMAR

Scientist and Lecturer, Viral Watch, influenza surveillance program in the Western Cape

#### DR ZIZIPHO ZIPOZAKE MBULAWA

Scientist and Lecturer, HPV

#### DR LINDI MASSON

NRF Career Research Fellow and Lecturer, HIV transmission and disease; sexually transmitted infections; bacterial vaginosis; mucosal immunology; cytokines; inflammation

#### DR TRACY MEIRING

NRF Career Research Fellow and Lecturer, Genital viral and microbial communities and their

association with human immunodeficiency virus and human papillomavirus infection

### **Emeritus Professor**

#### **PROFESSOR KEITH DUMBELL**

Pox viruses

### **Honorary Research Associates**

#### **PROF DAVID KATZENSTEIN**

Treatment and evaluation of HIV infection

#### **DR ERICA ANDERSEN-NISSEN**

HIV vaccinology and immunology

#### **DR ALFRED BERE**

### **Postdoctoral Research Fellows**

#### **DR SHAMEEM JAUMDALLY**

Genital Mucosal Immunology

#### **DR PHILIPPE SELHORST**

HIV Pathogenesis and cell culture; Molecular biology

#### **DR NATALIE STRICKLAND**

The immune response to TB in HIV-TB coinfection

#### **DR EVELINE KAAMBO**

Genital Mucosal Immunology

## **Contact Details**

Postal address: Division of Medical Virology,  
S3.23 Wernher Beit South Building, Anzio Road,  
University of Cape Town, Observatory, 7925  
Telephone: +27 21 406 6983  
Fax: +27 21 406 6682  
Email: [nyameka.mhlonyelwa-mona@uct.ac.za](mailto:nyameka.mhlonyelwa-mona@uct.ac.za)  
Web: <http://www.virology.uct.ac.za/>

## **RESEARCH OUTPUT**

### **Chapters in books**

Artz, L.M. 2015. National and international policies to reduce domestic violence. In P.D. Donnelly and C.L. Ward (eds), *Oxford Textbook of Violence Prevention Epidemiology, Evidence, and Policy*, pp. 273-278. United Kingdom: Oxford University Press. ISBN 9780199678723.

Gopinath, K., Warner, D. and Mizrahi, V. 2015. Targeted gene knockout and essentially testing by homogenous recombination. In T. Paris and D.M.

Roberts (eds), *Mycobacteria Protocols*, pp. 131-149. 3<sup>rd</sup> edition. Humana Press: Springer Heidelberg New York Dordrecht London. ISBN 9781493924493.

### **Articles in peer-reviewed journals**

Abdulgader, S., Shittu, A., Nicol, M.P. and Kaba, M. 2015. Molecular epidemiology of Methicillin-resistant *Staphylococcus aureus* in Africa: a systematic review. *Frontiers in Microbiology*, 6: 348(21pp).

Abdullahi-Hussein, L., Kagina, B., Wiysonge, C. and Hussey, G.D. 2015. Improving vaccination uptake among adolescents. *Cochrane Database of Systematic Reviews*, 9: CD011895(18pp).

Adeola, H., Soares, N., Paccez, J.D., Kaestner, L.A., Blackburn, J. and Zerbini, L.F. 2015. Discovery of novel candidate urinary protein biomarkers for prostate cancer in a multethnic cohort of South African patients via label-free mass spectrometry. *Proteomics Clinical Applications*, 9: 597-609.

Adler, D., Wallace, M., Bennie, T., Abar, B., Sadeghi, R., Bekker, L., Williamson, A.-L. and Meiring, T. 2015. High risk human papillomavirus persistence among HIV-infected young women in South Africa. *International Journal of Infectious Diseases*, 33: 219-221.

Antel, K.R., Panieri, E. and Novitzky, N. 2015. Role of splenectomy for immune thrombocytopenic purpura (ITP) in the era of new second-line therapies and in the setting of a high prevalence of HIV-associated ITP. *SAMJ South African Medical Journal*, 105(4): 408-412.

Archary, D., Liebenberg, L.J., Werner, L., Tulsi, S., Majola, N., Naicker, N., Dlamini, S., Hope, T., Samsunder, N., Abdool Karim, S.S., Morris, L., Passmore, J.S. and Garrett, N.G. 2015. Randomized cross-sectional study to compare HIV-1 specific antibody and cytokine concentrations in female genital secretions obtained by menstrual cup and cervicovaginal lavage. *PLoS One*, 10(7): e0131906(16pp).

Arner, E., Daub, C., Vitting-Seerup, K., Anderson, R., Lilje, B., Drablos, F., Lennartson, A., Ronnerblad, M., Hrydziusko, O., Vitazic, M., Brombacher, F. and Guler, R. 2015. Transcribed enhancers lead waves of coordinated transcription in transitioning mammalian cells. *Science*, 347(6225): 1010-1014.

Arnold, M., Itzikowitz, R., Young, B.Y.G., Machoki, M., Hsiao, N.M., Pillay, K. and Alexander, A. 2015. Surgical manifestations of gastrointestinal cytomegalovirus infection in children: Clinical audit and literature review. *Journal of Pediatric Surgery*, 50: 1874-1879.

Artz, L.M. and Rotmann, B. 2015. Taking 'A Count' of Women in Prison. *Agenda*, 29(4): 3-13.

- Badura-Stronka, M., Mroz, D., Beighton, P., Lukawiecki, S., Wicher, K., Latos-Bielenska, A. and Kozlowski, K. 2015. Novel mutation in the BMPR1B gene (R486L) in a polish family and further delineation of the phenotypic features of BMPR1B-Related Brachydactyly. *Birth Defects Research Part A-Clinical and Molecular Teratology*, 103: 567-572.
- Bandawe, G.P., Moore, P.L., Werner, L., Gray, E.S., Sheward, D., Madiga, M.C., Nofemela, A., Thebus, R., Marais, J.C., Maboko, L., Karim, S.S.A., Hoelscher, M., Morris, L. and Williamson, C. 2015. Differences in HIV Type 1 neutralization breadth in 2 geographically distinct cohorts in Africa. *Journal of Infectious Diseases*, 211: 1461-1466.
- Barry, C. 2015. More than just bugs in spit. *Science*, 348(6235): 633-634.
- Bauer, M., Glenn, T.G., Alda, A.M., Andreassen, O.A., Angelopoulos, E.A., Arda, A.R., Baethge, B.C., Bauer, B.R., Baune, B.T., Bellivier, F.B., Ramesar, R.S. and Stein, D.J. 2015. Influence of light exposure during early life on the age of onset of bipolar disorder. *Journal of Psychiatric Research*, 64: 1-8.
- Bauer, M., Glenn, T.G., Alda, A.M., Andreassen, O.A., Angelopoulos, E.A., Arda, A.R., Baethge, B.C., Bauer, B.R., Bellivier, F.B., Belmaker, B.R.H., Berk, M., Bjella, B.T.D., Bossini, L.B., Bersudsky, Y.B., Cheung, E.Y.W.C., Conell, C.J., Zompo, Z.M.D., Dodd, S.D., Etain, E.B., Fagiolini, A.F., Frye, M.F., Fountoulakis, K.N., Garneau-Fournier, J.D.F., Gonzalez-Pinto, G.P.A., Harima, H.H., Hassel, H.S., Henry, H.C., Lacovides, A.L., Isometsa, I.E.T., Kapczynski, K.F., Kliwicki, S.K., Konig, B.K., Krogh, K.R., Kunz, K.M., Lafer, B.L., Larsen, E.R.L., Lewitzka, U.L., Lopez-Jaramillo, L.J.C., MacQueen, M.G., Manchia, M.M., Marsh, M.W., Martinez-Cengotitabengoa, M.M.C., Melle, M.I., Monteith, M.S., Morken, G.M., Munoz, M.R., Nery, N.F.G., O'Donovan, O.C., Osher, O.Y., Pfennig, P.A., Quiroz, Q.D., Ramesar, R.S., Rasgon, R.N., Reif, R.A., Ritter, R.P., Rybakowski, R.J.K., Sagduyu, K.S., Scippa, S.A.M., Severus, E.S., Simhandl, S.C., Stein, D.J., Strejilevich, S.S., Sulaiman, A.H.S., Suominen, S.K., Tagata, T.H., Tatebayashi, T.Y., Torrent, T.C., Vieta, E.V., Viswanath, B.V., Wanchoo, W.M.J., Zetin, M.Z. and Whybrow, P.W. 2015. Influence of birth cohort on age of onset cluster analysis in bipolar I disorder. *European Psychiatry*, 30: 99-105.
- Belard, S., Heuvelings, C., Janssen, S. and Grobusch, M. 2015. Bedaquiline for the treatment of drug-resistant tuberculosis. *Expert Review of Anti-infective Therapy*, 13(5): 535-553.
- Belard, S., Isaacs Dollie, W., Black, F., Bateman, L., Madolo, L., Munro, J., Workman, L.J., Grobusch, M. and Zar, H.J. 2015. Treatment of childhood tuberculosis: caregivers' practices and perceptions in Cape Town, South Africa. *Paediatrics and International Child Health*, 35(1): 24-28.
- Besnard, A., Guabiraba, R., Niedbala, W., Palomo, J., Reverchon, F., Shaw, T., Couper, K., Ryffel, B. and Liew, F. 2015. IL-33-mediated protection against experimental cerebral malaria is linked to induction of type 2 innate lymphoid cells, M2 macrophages and regulatory T cells. *PLOS Pathogens*, 11(2): e1004607(21pp).
- Bhiman, J.N., Anthony, C., Doria-rose, N.A.D.-R., Karimanzira, O., Schramm, C.A.S., Khoza, T., Kitchin, D., Botha, G.S., Gorman, J.G., Garrett, N.G., Karim, S.S.A., Shapiro, L.S., Williamson, C., Kwong, P.D.K., Mascola, J.R., Morris, L. and Moore, P.L. 2015. Viral variants that initiate and drive maturation of VIV2-directed HIV-1 broadly neutralizing antibodies. *Nature Medicine*, 21(11): 1332-1336.
- Blackney, A., Tchakoute, C.T., Hesselting, A.C., Kidzeru, E., Jones, C.E., Passmore, J., Sodora, D., Gray, C. and Jaspan, H.B. 2015. Delayed BCG vaccination results in minimal alterations in T-cell immunogenicity of acellular pertussis and tetanus immunizations in HIV-exposed infants. *Vaccine*, 33: 4782-4789.
- Boyles, T.H. 2015. The individualised versus the public health approach to treating ebola. *Plos Medicine*, 12(7): e1001858(4pp).
- Boyles, T.H. and Thwaites, G.E. 2015. Appropriate use of the Xpert MTB/RIF assay in suspected tuberculous meningitis. *International Journal of Tuberculosis and Lung Disease*, 19(3): 276-277.
- Boyles, T.H. and Wasserman, S. 2015. Diagnosis of bacterial infection. *SAMJ South African Medical Journal*, 105(5): 419-421.
- Bricault, C., Kovacs, J.M., Nkolola, J.P., Yusim, K., Giorgi, E.E., Shields, J.L., Perry, J., Lavine, C.L., Cheung, A., Ellingson-Strouss, K., Rademeyer, C., Gray, G., Williamson, C., Stamatatos, L., Seaman, M.S., Korber, B.T.M., Chen, B. and Barouch, D.H. 2015. A multivalent clade C HIV-1 Env trimer cocktail elicits a higher magnitude of neutralizing antibodies than any individual component. *Journal of Virology*, 89(5): 2507-2519.
- Campbell, M.M., Artz, L.M. and Stein, D.J. 2015. Sexual disorders in DSM-5 and ICD-11: a conceptual framework. *Current Opinion in Psychiatry*, 28: 435-439.
- Campbell, M.M., Susser, E., de Vries, J., Baldinger, A., Sibeko, G., Mndini, M.M., Mqulwana, S.G., Ntola, O.A., Ramesar, R.S. and Stein, D.J. 2015. Exploring researchers experiences of working with a researcher-driven, population-specific community advisory board in a South African schizophrenia genomics study. *BMC Medical Ethics*, 16: 45(9pp).
- Chatterjee, K., Williamson, A.-L., Hazra, A. and Dandara, C. 2015. The combined risks of reduced

- or increased function variants in cell death pathway genes differentially influence cervical cancer risk and herpes simplex virus type 2 infection among black Africans and the mixed ancestry population of South Africa. *BMC Cancer*, 15: 680(7pp).
- Chen, C., Akiyama, K., Wang, D., Xu, X., Li, B., Moshaverinia, A., Brombacher, F., Sun, L. and Shi, S. 2015. mTOR inhibition rescues osteopenia in mice with systemic sclerosis. *Journal of Experimental Medicine*, 212(1): 73-91.
- Chen, R.T., Carbery, B., Mac, L., Berns, K.I., Chapman, L., Condit, R.C., Excler, J.-L., Gurwith, M., Hendry, M., Khan, A.S., Khuri-Bulos, N., Klug, B., Robertson, J.S., Seligman, S.J., Sheets, R.L. and Williamson, A.-L. 2015. The Brighton collaboration viral vector vaccines safety working group (V3SWG). *Vaccine*, 33: 73-75.
- Chimusa, E.R., Meintjes, A., Tchanga, M., Mulder, N.J., Seoighe, C., Soodyall, H. and Ramesar, R.S. 2015. A genomic portrait of haplotype diversity and signatures of selection in indigenous Southern African populations. *Plos Genetics*, 11(3): e1005052(28pp).
- Churchyard, G.J., Stevens, W.S., Mametja, L.D., McCarthy, K.M., Chihota, V., Nicol, M.P., Erasmus, L.K., Ndjeka, N., Mvusi, L., Vassall, A., Sinanovic, E., Cox, H. and Dye, C. 2015. Xpert MTB/RIF versus sputum microscopy as the initial diagnostic test for tuberculosis: a cluster-randomised trial embedded in South African roll-out of Xpert MTB/RIF. *The Lancet Global Health*, 3: e450-e457.
- Cnops, J., De Trez, C., Bulte, D., Radwanska, M., Ryffel, B. and Magez, S. 2015. IFN- $\gamma$  mediates early B-cell loss in experimental African trypanosomiasis. *Parasite Immunology*, 37: 479-484.
- Cnops, J., de Trez, C., Stijlemans, B., Keirse, J., Kauffmann, F., Barkhuizen, M., Keeton, R., Boon, L., Brombacher, F. and Magez, S. 2015. NK-NKT- and CD8-derived IFN $\gamma$  drives myeloid cell activation and erythrophagocytosis, resulting in trypanosomiasis-associated acute anemia. *PLoS Pathogens*, 11(6): e1004964(19pp).
- Cohen, C., Naidoo, N., Meiring, S., de Gouveia, L., von Mollendorf, C., Walaza, S., Naicker, P., Madhi, S., Feldman, C., Klugman, K.P., Dawood, H. and von Gottberg, A. 2015. *Streptococcus pneumoniae* Serotypes and mortality in adults and adolescents in South Africa: analysis of national surveillance data, 2003 – 2008. *PLoS One*, 10(10): e0140185(19pp).
- Cox, H., Daniels, J., Muller, O., Nicol, M.P., Cox, V., van Cutsem, G., Moyo, S., De Azevedo, V. and Hughes, J. 2015. Impact of decentralized care and the Xpert MTB/RIF test on rifampicin-resistant tuberculosis treatment initiation in Khayelitsha, South Africa. *Open Forum Infectious Diseases*, 2(1): 1-7.
- Cox, H., Furin, J.J., Mitnick, C., Daniels, C., Cox, V. and Goemaere, E. 2015. The need to accelerate access to new drugs for multidrug-resistant tuberculosis. *Bulletin of the World Health Organization*, 93: 491-497.
- Cox, H., Ramma, L., Wilkinson, L., De Azevedo, V. and Sinanovic, E. 2015. Cost per patient of treatment for rifampicin-resistant tuberculosis in a community-based programme in Khayelitsha, South Africa. *Tropical Medicine & International Health*, 20(10): 1337-1345.
- Dalvie, S., Koen, N., Duncan, L., Abbo, C., Akena, D., Atwoli, L., Chiliza, B., Donald, K.A.M., Kinyanda, E., Lochner, C., Mall, S., Nakasujja, N., Newton, C.R., Ramesar, R.S., Sibeko, G., Teferra, S., Stein, D.J. and Koenen, K. 2015. Large scale genetic research on neuropsychiatric disorders in African populations is needed. *EBioMedicine*, 2: 1259-1261.
- Dandara, C., Mpye, K., Agenbag, G., Skelton, M., Zaahl, M., Masimirembwa, C.M., Mulder, N.J., Warnich, L. and Pepper, M.S. 2015. Biotechnology innovators to convene in Cape Town, South Africa: Pharmacogenetics and precision medicine conference (April 7 – 9, 2016). *Omics-A Journal of Integrative Biology*, 19(12): 731-732.
- Daniels, J., Khogali, M., Mohr, E., Cox, V., Moyo, S., Edginton, M., Gudmund Hinderaker, S., Meintjes, G., Hughes, J., De Azevedo, V., Van Cutsem, G. and Cox, H. 2015. Time to ART initiation among patients treated for rifampicin-resistant tuberculosis in Khayelitsha, South Africa: impact on mortality and treatment success. *PLoS One*, 10(11): e0142873(15pp).
- Darby, M., Schnoeller, C., Vira, A., Culley, F., Bobat, S., Logan, E., Kirstein, F., Wess, J., Cunningham, A.F., Brombacher, F., Selkirk, M.E. and Horsnell, W. 2015. The M3 muscarinic receptor is required for optimal adaptive immunity to helminth and bacterial infection. *PLoS Pathogens*, 11(1): e1004636(15pp).
- Datta, M., Via, L.E., Kamoun, W.S., Liu, C., Chen, W., Giorgio, S., Weiner, D.M., Schimel, D., England, K., Martin, J.D., Gao, X., Xu, L., Barry, C. and Jain, R.K. 2015. Anti-vascular endothelial growth factor treatment normalizes tuberculosis granuloma vasculature and improves small molecule delivery. *Proceedings of the National Academy of Sciences of the United States of America*, 112(6): 1827-1832.
- de Melo Soares, C., Feng, T., van der Westhuyzen, R., Gessner, R.K., Street, L.J., Morgans, G.L., Warner, D., Moosa, A., Naran, K., Lawrence, N., Boshoff, H.I., Barry 3<sup>rd</sup>, C.E., Harris, C.J., Gordon, R. and Chibale, K. 2015. Aminopyrazolo[1,5-a]pyrimidines as potential inhibitors of *Mycobacterium tuberculosis*: structure activity relationships and ADME characterization. *Bioorganic & Medicinal Chemistry*, 23: 7240-7250.

- Deese, J., Masson, L., Miller, W.C., Cohen, M.S., Morrison, C.S., Wang, M., Ahmed, K., Agot, K., Crucitti, T., Abdellati, S. and Van Damme, L. 2015. Injectable progestin-only contraception is associated with increased levels of pro-inflammatory cytokines in the female genital tract. *American Journal of Reproductive Immunology*, 74: 357-367.
- Du Pisani, L.A. and Shires, K.L. 2015. Development of a flow cytometric method to detect the presence of mutated nucleophosmin 1 in acute myeloid leukemia. *Hematology Oncology Stem Cell Therapy*, 8(3): 106-114.
- du Toit, J., Kilborn, T.N., Padayachy, L., Pillay, K. and Hendricks, M.K. 2015. Cystic hemispheric medulloepithelioma. *SA Journal of Radiology*, 19(2): 915(5pp).
- du Toit, J., Kilborn, T.N., Van Eyssen, A. and Pillay, K. 2015. Orbital lymphomatoid granulomatosis – a rare cause of proptosis. *Pediatric Radiology*, 45: 1095-1098.
- Dube, F.S., Van Mens, S., Robberts, L., Wolter, N., Nicol, P., Mafofo, J., Africa, S., Zar, H.J. and Nicol, M.P. 2015. Comparison of a real-time multiplex PCR and sequencing assay for pneumococcal serotyping. *PLoS One*, 10(9): e0137349(17pp).
- Dunning, L., Hsiao, N.M. and Myers, L. 2015. Point-of-care HIV early infant diagnosis: is test sensitivity everything? *Journal of the International AIDS Society*, 18: 20235(3pp).
- Elhassan, M.M.A., Wu, H. and Van Wijk, A.L. 2015. Epithelioid trophoblastic tumour: a report of two cases. *Southern African Journal of Gynaecological Oncology*, 7(1): 34-36.
- Evans, J. and Mizrahi, V. 2015. The application of tetracycline regulated gene expression systems in the validation of novel drug targets in mycobacterium tuberculosis. *Frontiers in Microbiology*, 6: 812(14pp).
- Evans, J.J., Swart, M., Soko, N., Wonkam, A., Huzair, F. and Dandara, C. 2015. A global health diagnostic for personalized medicine in resource-constrained world settings: A simple PCR-RFLP method for genotyping CYP2B6 g.15582C>T and science and policy relevance for optimal use of antiretroviral drug Efavirenz. *Omics-A Journal of Integrative Biology*, 19(6): 332-338.
- Fouda, G.G., Cunningham, C.K., McFarland, E.J., Borkowsky, W., Muresan, P., Pollara, J., Song, L.Y., Liebl, B., Whitaker, K., Shen, X., Vandergrift, N.A., Overman, R.G., Yates, N.L., Moody, M.A., Fry, C., Kim, J., Michael, N., Robb, M., Pitisuttithum, P., Kaewkungwal, J., Nitayaphan, S., Rerks-Ngarm, S., Liao, H.-X., Haynes, B.F., Montefior, D. and Ferrari, G. 2015. Infant HIV Type 1 gp120 vaccination elicits robust and durable anti-V1V2 immunoglobulin G responses and only rare envelope-specific immunoglobulin a Responses. *Journal of Infectious Diseases*, 211: 508-517.
- Francisco, N., Hsu, N., Keeton, R., Randall, P., Sebesho, B., Allie, N., Govender, D., Quesniaux, V., Ryffel, B., Kellaway, L.A. and Jacobs, M. 2015. TNF-dependent regulation and activation of innate immune cells are essential for host protection against cerebral tuberculosis. *Journal of Neuroinflammation*, 12: 125(14pp).
- Frigati, L.J., Maskew, M., Workman, L.J., Munro, J., Andronikou, S., Nicol, M.P. and Zar, H.J. 2015. Clinical predictors of culture-confirmed pulmonary tuberculosis in children in a high Tuberculosis and HIV prevalence area. *Pediatric Infectious Disease Journal*, 34(9): e206-e210.
- Furin, J.J., Harausz, E., Zimetbaum, P. and Cox, H. 2015. In reply. QTc prolongation and delamanid: access and safety. *International Journal of Tuberculosis and Lung Disease*, 10: 1262-1263.
- Gabriel, M.S., Sonderup, M.W., Locketz, M.L., Bernon, M., Thomson, D., Gogela, N., Du Toit, J.M., Muller, E. and Spearman, W. 2015. A toxic brew. *The South African Gastroenterology Review*, 13(2): 30-32.
- Garca-Arriaza, S., Perdiguero, B., Heeney, J., Seaman, M.S., Montefior, D., Labranche, C., Yates, N.L., Shen, X., Tomaras, G.D., Ferrari, G. and Foulds, K.E. 2015. Head-to-head comparison of poxvirus NYVAC and ALVAC vectors expressing identical HIV-1 Clade C immunogens in prime-boost combination with Env protein in Nonhuman primates. *Journal of Virology*, 89(16): 8525-8539.
- Garrett, N.G., Werner, L., Naicker, N., Naranbhai, V., Sibeko, S., Samsunder, N., Gray, C., Williamson, C., Morris, L., Abdool-Karim, Q. and Abdool-Karim, S. 2015. HIV disease progression in seroconvertors from the CAPRISA 004 tenofovir gel pre-exposure prophylaxis trial. *J aids-Journal of Acquired Immune Deficiency Syndromes*, 68(1): 55-61.
- Garson, C., Kelly-Laubscher, R.F., Blackhurst, D.M. and Gwanyanya, A. 2015. Lack of cardioprotection by single-dose magnesium prophylaxis on isoprenaline-induced myocardial infarction in adult Wistar rats. *Cardiovascular Journal of Africa*, 26: 242-249.
- Geldenhuys, H.D., Mearns, H., Foster, J., Saxon, E., Kagina, B., Saganic, L., Jarrhian, C., Tameris, M.D., Dintwe, O., Van Rooyen, M., Luabeya, K.K.A., Hussey, G.D., Scriba, T., Hatherill, M. and Zehrung, D. 2015. A randomized clinical trial in adults and newborns in South Africa to compare the safety and immunogenicity of bacille Calmette-Gurin (BCG) vaccine administration via a disposable-syringe jet injector to conventional technique with needle and syringe. *Vaccine*, 33: 4719-4726.



- Greenberg, J., Smith, D., Burman, R., Ballo, R. and Kidson, S.H. 2015. Towards guidelines for informed consent for prospective stem cell research. *South African Journal of Bioethics and Law*, 8(2): 46-48.
- Guler, R. and Brombacher, F. 2015. Host-directed drug therapy for tuberculosis. *Nature Chemical Biology*, 11: 748-751.
- Guler, R., Parihar, S., Savvi, S., Logan, E., Schwegmann, A., Roy, S., Nieuwenhuizen, N., Ozturk, M., Schmeier, S., Suzuki, H. and Brombacher, F. 2015. IL-4R-dependent alternative activation of macrophages is not decisive for *Mycobacterium tuberculosis* pathology and bacterial burden in mice. *PLoS One*, 10(3): e0121070(14pp).
- Guler, R., Roy, S., Suzuki, H. and Brombacher, F. 2015. Targeting Batf2 for infectious diseases and cancer. *Oncotarget*, 6(29): 26575-26582.
- Hadebe, S., Kirstein, F., Fierens, K., Chen, K., Drummond, R., Vautier, S., Sajaniemi, S., Murray, G., Williams, D., Redelinghuys, P., Reinhart, T.A., Junecko Fallert, B.A., Kolls, J., Lambrecht, B.N., Brombacher, F. and Brown, G.D. 2015. Microbial ligand costimulation drives neutrophilic steroid-refractory asthma. *PLoS One*, 10(8): e0134219(17pp).
- Hancock, G., Yang, H., Yorke, E., Wainwright, E., Bourne, V., Frisbee, A., Payne, T., Berrong, M., Ferrari, G., Chopera, D., Hanke, T., Mothe, B., Brander, C., McElrath, M.J., McMichael, A.J., Goonetilleke, N., Tomaras, G.D., Frahm, N. and Dorrell, L. 2015. Identification of effective subdominant anti-HIV-1 CD8+ T cells within entire post-infection and post-vaccination immune responses. *PLOS Pathogens*, 11(2): e1004658(22pp).
- Harausz, E., Cox, H., Rich, M., Mitnick, C., Zimetbaum, P. and Furin, J. 2015. QTc prolongation and treatment of multidrug-resistant tuberculosis. *International Journal of Tuberculosis and Lung Disease*, 19(4): 385-391.
- Hernandez, P.P., Mahlakoiv, T., Yang, I., Schwierzeck, V., Nguyen, N., Guendel, F., Gronke, K., Ryffel, B., Hoelscher, C., Dumoutier, L., Renauld, J.-C., Suerbaum, S., Staeheli, P. and Diefenbach, A. 2015. Interferon- and interleukin-22 cooperate for the induction of interferon-stimulated genes and control of rotavirus infection. *Nature Immunology*, 16(7): 698-707.
- Hopkins, P.N., Defesche, J., Fouchier, S., Bruckert, E., Luc, G., Cariou, B., Sjouke, B., Leren, T.P., Harada-Shiba, M., Mabuchi, H. and Marais, D. 2015. Characterization of autosomal dominant hypercholesterolemia caused by PCSK9 gain of function mutations and its specific treatment with alirocumab, a PCSK9 monoclonal antibody. *Circulation-Cardiovascular Genetics*, 8: 823-831.
- Horsburgh, C.R., Barry, C. and Lange, C. 2015. Treatment of tuberculosis. *New England Journal of Medicine*, 373(22): 2149-2160.
- Hughes, J., Isaakidis, P., Andries, A., Mansoor, H., Cox, V., Meintjes, G. and Cox, H. 2015. Linezolid for multidrug-resistant tuberculosis in HIV-infected and -uninfected patients. *European Respiratory Journal*, 46: 271-273.
- Ibinda, F., Bauni, E., Kariuki, S.M., Fegan, G., Lewa, J., Mwikamba, M., Boga, N., Odhiambo, R., Mwangi, K., Seale, A.C., Berkley, J.A., Dorfman, J. and Newton, C. 2015. Incidence and risk factors for Neonatal Tetanus in admissions to Kilifi County hospital, Kenya. *PLoS One*, 10(4): e122606(13pp).
- Jacob, R., Moyo, T., Schomaker, M., Abrahams, F., Pujol, B.G. and Dorfman, J. 2015. Anti-V3/glycan and anti-MPER neutralizing antibodies, but not anti-V2/glycan site antibodies, are strongly associated with greater anti-HIV-1 neutralization breadth and potency. *Journal of Virology*, 89(10): 5264-5275.
- Jacobson, R., Manesen, M.R., Moodley, C., Smith, M., Williams, S., Nicol, M.P. and Bamford, C. 2015. Molecular characterisation and epidemiological investigation of an outbreak of bla<sub>oxa</sub>-181 carbapenemase producing isolates of *klebsiella pneumoniae* in South Africa. *SAMJ South African Medical Journal*, 105(12): 1030-1035.
- Janssen, S., Hermans, S., Knap, M., Moekotte, A., Rossatanga, E.G., Adegnika, A.A., Belard, S., Hanscheid, T. and Grobusch, M. 2015. Impact of anti-retroviral treatment and cotrimoxazole prophylaxis on helminth infections in HIV-infected patients in Lambarn, Gabon. *Plos Neglected Tropical Diseases*, 9(5): e0003769(13pp).
- Janssen, S., Wieten, R.W., Stolp, S., Cremers, A.L., Rossatanga, E.G., Klipstein-Grobusch, K., Belard, S. and Grobusch, M. 2015. Factors associated with retention to care in an HIV clinic in Gabon, central Africa. *PLoS One*, 10(10): e0140746(14pp).
- Joachim, A., Nilsson, C., Aboud, S., Bakari, M., Lyamuya, E., Robb, M., Marovich, M.A., Earl, P., Moss, B., Ochsenbauer, C., Wahren, B., Mhalu, F., Sandström, E., Biberfeld, G., Ferrari, G. and Polonis, V.R. 2015. Potent functional antibody responses elicited by HIV-I DNA priming and boosting with Heterologous HIV-1 Recombinant MVA in healthy Tanzanian adults. *PLoS One*, 10(4): e0118486(15pp).
- Jones, C.E., Hesselning, A.C., Tena-Coki, N., Scriba, T., Chegou, N.N., Kidd, M., Wilkinson, R.J. and Kampmann, B. 2015. The impact of HIV exposure and maternal *mycobacterium tuberculosis* infection on infant immune responses to bacille Calmette-Gurin vaccination. *AIDS*, 29: 155-165.

- Jurgens, E.M., Mathieu, C., Palermo, L.M., Hardie, D.R., Horvat, B., Moscona, A. and Porotto, M. 2015. Measles fusion machinery is dysregulated in neuropathogenic variants. *mBio*, 6(1): e02528-14(12pp).
- Kagina, B., Mansoor, N., Kpamegan, E.P., Penn-Nicholson, A., Nemes, E., Smit, E., Gelderbloem, S., Soares, A.P., Abel, B., Keyser, A.T., Sidibana, M., Hughes, J., Kaplan, G., Hussey, G.D., Hanekom, W.A. and Scriba, T. 2015. Qualification of a whole blood intracellular cytokine staining assay to measure mycobacteria-specific CD4 and CD8 T cell immunity by flow cytometry. *Journal of Immunological Methods*, 417: 22-33.
- Kanyenda, T., Abdullahi-Hussein, L., Hussey, G.D. and Kagina, B. 2015. Epidemiology of hepatitis A virus in Africa among persons aged 1-10 years: a systematic review protocol. *Systematic Reviews*, 4: 129(8pp).
- Kasu, M. and Shires, K. 2015. The validation of forensic DNA extraction systems to utilize soil contaminated biological evidence. *Legal Medicine*, 17: 232-238.
- Kija, E., Ndondo, A., Spittal, G., Hardie, D.R., Eley, B.S. and Wilmshurst, J. 2015. Subacute sclerosing panencephalitis in South African children following the measles outbreak between 2009 and 2011. *SAMJ South African Medical Journal*, 105(9): 713-718.
- Kolly, S., Mukherjee, R., Kilacskova, E., Abriata, L.A., Raccaud, M., Blasko, J., Sala, C., Peraro, D., Mikusova, K. and Cole, S.T. 2015. GtrA Protein Rv3789 is required for Arabinosylation of Arabinogalactan in *Mycobacterium tuberculosis*. *Journal of Bacteriology*, 197(23): 3686-3697.
- Kranzer, K., Elamin, W.F., Cox, H., Seddon, J.A., Ford, N. and Drobniewski, F. 2015. A systematic review and meta-analysis of the efficacy and safety of N-acetylcysteine in preventing aminoglycoside-induced ototoxicity: implications for the treatment of multidrug-resistant TB. *Thorax*, 70: 1070-1077.
- Kullin, B., Meggersee, R.L., D'Alton, J., Galvao, B., Rajabally, M.N., Whitelaw, A.C., Bamford, C., Reid, S.J. and Abratt, V.R. 2015. Prevalence of gastrointestinal pathogenic bacteria in patients with diarrhoea attending Groote Schuur Hospital, Cape Town, South Africa. *SAMJ South African Medical Journal*, 105(2): 121-125.
- Kvistborg, P., Gouttefangeas, C., Aghaeepour, N., Cazaly, A., Charropadhyay, P., Chan, C., Eckl, J., Finak, G., Hadrup, S.R., Maecker, H.T., Maurer, D. and Ferrari, G. 2015. Thinking outside the gate: single-cell assessments in multiple dimensions. *Immunity*, 42: 591-592.
- Langa, B.C., Oliveira, M.M.C., Pereira, S.R.F., Lupicki, K., Marian, C., Govender, D., Panieri, E., Hiss, D., Cavalli, J., Abdul-Rasool, S. and Cavalli, L.R. 2015. Copy number analysis of the DLX4 and ERBB2 genes in South African breast cancer patients. *Cytogenetic and Genome Research*, 146(3): 195-203.
- Lawn, S.D. and Nicol, M.P. 2015. Dead or alive: can viability staining predict response to tuberculosis treatment. *Clinical Infectious Diseases*, 60(8): 1196-1198.
- Lawn, S.D., Kerkhoff, A., Burton, R., Schutz, C., Van Wyk, G., Vogt, M.C., Pahlana, P., Nicol, M.P. and Meintjes, G. 2015. Rapid microbiological screening for tuberculosis in HIV-positive patients on the first day of acute hospital admission by systematic testing of urine samples using Xpert MTB/RIF: a prospective cohort in South Africa. *BMC Medicine*, 13: 192(13pp).
- Lawn, S.D., Kerkhoff, A., Nicol, M.P. and Meintjes, G. 2015. Underestimation of the true specificity of the urine Lipoarabinomannan point-of-care diagnostic assay for HIV-Associated Tuberculosis. *JAIDS-Journal of Acquired Immune Deficiency Syndromes*, 69(4): e144-e146.
- Lawn, S.D., Nicol, M.P. and Corbett, E.L. 2015. Effect of empirical treatment on outcomes of clinical trials of diagnostics assays for tuberculosis. *Lancet Infectious Diseases*, 15: 17-18.
- Le Roux, D., Myer, L., Nicol, M.P. and Zar, H.J. 2015. Incidence and severity of childhood pneumonia in the first year of life in a South African birth cohort: the Drakenstein Child Health Study. *The Lancet Global Health*, 3: e95-e103.
- Le Roux, D., Myer, L., Nicol, M.P. and Zar, H.J. 2015. Incidence of childhood pneumonia: facility-based surveillance estimate compared to measured incidence in a South African birth cohort study. *BMJ Open*, 5: e009111(6pp).
- Lebeko, K., Bosch, J., Noubiap, J.J.N., Dandara, C. and Wonkam, A. 2015. Genetics of hearing loss in Africans: use of next generation sequencing is the best way forward. *Pan African Medical Journal*, 20: 383(14pp).
- Lecuona, K., Stannard, C.E., Hart, G.J., Rice, J.C., Cook, C.D., Wetter, J.A. and Duffield, M. 2015. The treatment of carcinoma in situ and squamous cell carcinoma of the conjunctiva with fractionated strontium-90 radiation in a population with a high prevalence of HIV. *British Journal of Ophthalmology*, 99: 1158-1161.
- Lenz, N., Schindler, T., Kagina, B., Zhang, J.D., Lukindo, T., Mpina, M., Bang, P., Kromann, I., Hoff, S.T., Andersen, P., Reither, K., Churchyard, G.J., Certa, U. and Daubenberger, C. 2015. Antiviral innate immune activation in HIV-infected adults negatively affects H1/IC31-induced vaccine-specific memory CD4+ T cells. *Clinical and Vaccine Immunology*, 22(7): 688-696.

- Lessem, E., Cox, H., Daniels, C., Furin, J., McKenna, L., Mitnick, C., Mosidi, T., Reed, C., Seaworth, B., Stillo, J., Tisile, P. and von Delft, D. 2015. Access to new medications for the treatment of drug-resistant tuberculosis: patient, provider and community perspectives. *International Journal of Infectious Diseases*, 32: 56-60.
- Liu, Q., Via, L., Luo, T., Liang, L., Liu, X., Wu, S., Shen, Q., Wei, W., Ruan, X., Yuan, X., Zhang, G. and Barry, C. 2015. Within patient microevolution of *Mycobacterium tuberculosis* correlates with heterogeneous responses to treatment. *Scientific Reports*, 5: 17507(8pp).
- Lochan, H., Naicker, P., Maphanga, T., Ryan, A., Pillay, K., Govender, N.P. and Eley, B.S. 2015. A case of emmonsiosis in an HIV-infected child. *Southern African Journal of HIV medicine*, 16(1): 352(4pp).
- Luabeya, K.K.A., Kagina, B., Tameris, M.D., Geldenhuys, H.D., Hoff, S.T., Shi, Z., Kromann, I., Hatherill, M., Mahomed, H., Hanekom, W.A., Andersen, P., Scriba, T., Schoeman, E., Krohn, C., Day, C., Africa, H., Makhetha, L., Smit, E., Browne, Y., Suliman, S., Hughes, E.J., Bang, P., Snowden, M.A., McClain, B. and Hussey, G.D. 2015. First-in-human trial of the post-exposure tuberculosis vaccine H56:IC31 in mycobacterium tuberculosis infected and non-infected healthy adults. *Vaccine*, 33: 4130-4140.
- Luabeya, K.K.A., Tameris, M.D., Geldenhuys, H.D., Mulenga, H., van Schalkwyk, A., Hughes, E.J., Toefy, A., Scriba, T., Hussey, G.D., Mahomed, H., McShane, H., Landry, B., Hanekom, W.A. and Hatherill, M. 2015. Risk of disease after isoniazid preventive therapy for mycobacterium tuberculosis exposure in young HIV-uninfected children. *Pediatric Infectious Disease Journal*, 34: 1218-1222.
- Maarman, G., Blackhurst, D.M., Thienemann, F., Blauwet, L., Butrous, G., Davies, N.H., Sliwa, K. and Lecour, S. 2015. Melatonin as a preventive and curative therapy against pulmonary hypertension. *Journal of Pineal Research*, 59: 343-353.
- Mambres, D.H., Machelart, A., Vanderwinden, J.-M., De Trez, C., Ryffel, B., Letesson, J.-J. and Muraille, E. 2015. In situ characterization of splenic brucella melitensis reservoir cells during the chronic phase of infection in susceptible mice. *PLoS One*, 10(9): e0137835(20pp).
- Marais, D. 2015. Dysbetalipoproteinemia: an extreme disorder of remnant metabolism. *Current Opinion in Lipidology*, 26: 292-297.
- Marais, D., Kim, J., Wasserman, S.M. and Lambert, G. 2015. PCSK9 inhibition in LDL cholesterol reduction: genetics and therapeutic implications of very low plasma lipoprotein levels. *Pharmacology & Therapeutics*, 145: 58-66.
- Masson, L., Passmore, J., Liebenberg, L.J., Werner, L., Baxter, C., Arnold, K.B., Williamson, C., Little, F., Mansoor, L.E., Naranbhai, V., Lauffenburger, D.A., Ronacher, K., Walzl, G., Garrett, N.G., Williams, B.L., Couto-Rodriguez, M., Hornig, M., Lipkin, I.W., Grobler, A.C., Abdool Karim, Q. and Abdool Karim, S.S. 2015. Genital inflammation and the risk of HIV acquisition in women. *Clinical Infectious Diseases*, 61(2): 260-269.
- Masson, L., Salkinder, A.L., Olivier, A., McKinnon, L.R., Gamielien, H., Mlisana, K., Scriba, T., Lewis, D.A., Little, F., Jaspan, H.B., Ronacher, K., Denny, L.A., Abdool Karim, S.S. and Passmore, J. 2015. Relationship between female genital tract infections, mucosal interleukin-17 production and local T helper type17 cells. *Immunology*, 146: 557-567.
- Matzopoulos, R., Prinsloo, M., Pillay-van Wyk, V., Gwebushe, N., Mathews, S., Martin, L.J., Laubscher, R., Abrahams, N., Msemburi, W., Lombard, C. and Bradshaw, D. 2015. Injury-related mortality in South Africa: a retrospective descriptive study of postmortem investigations. *Bulletin of the World Health Organization*, 93: 303-313.
- Mavedzenge, S.N., Muller, E., Lewis, D.A., Tsungai, C., Morrison, C. and Weiss, M. 2015. Mycoplasma genitalium is associated with increased genital HIV type 1 RNA in Zimbabwean women. *Journal of Infectious Diseases*, 211: 1388-1398.
- Mbulawa, Z., Coetzee, D.J. and Williamson, A.-L. 2015. Human papillomavirus prevalence in South African women and men according to age and human immunodeficiency virus status. *BMC Infectious Diseases*, 15(459): 459(11pp).
- McFall, S.M., Wagner, R.L., Jangam, S.R., Yamada, D.H., Hardie, D.R. and Kelso, D. 2015. A simple and rapid DNA extraction method from whole blood for highly sensitive detection and quantitation of HIV-1 proviral DNA by real-time PCR. *Journal of Virological Methods*, 214: 37-42.
- McKay, R. and Bamford, C. 2015. Community-versus healthcare-acquired bloodstream infections at Groote Schuur hospital, Cape Town, South Africa. *SAMJ South African Medical Journal*, 105(5): 363-369.
- Meer, T. and Combrinck, H. 2015. Invisible intersections: understanding the complex stigmatization of women with intellectual disabilities in their vulnerability to gender-based violence. *Agenda*, 104(29.2): 14-23.
- Meintjes, G., Kerkhoff, A., Burton, R., Schutz, C., Boulle, A.M., Van Wyk, G., Blumental, L., Nicol, M.P. and Lawn, S.D. 2015. HIV-related medical admissions to a South African district hospital remain frequent despite effective antiretroviral therapy scale-up. *Medicine*, 94(50): e2269(10pp).

- Menanzhe, R.I., Zar, H.J., Nicol, M.P. and Kaba, M. 2015. The spread of carbapenemase-producing bacteria in Africa: a systematic review. *Journal of Antimicrobial Chemotherapy*, 70: 23-40.
- Merker, M., Blin, C., Mona, S., Duforet-Frebourg, N., Lecher, S., Willery, E., Blum, M.G.B., Rusch-Gerdes, S., Mokrousov, I., Aleksic, E., Allix-Beguec, C., Antierens, A., Augustynowicz-Kopec, E., Ballif, M., Barletta, F., Beck, H.P., Barry, C.E., Bonnet, M., Borroni, E., Campos-Herrero, I., Cirillo, D.M. and Cox, H. 2015. Evolutionary history and global spread of the *Mycobacterium tuberculosis* Beijing lineage. *Nature Genetics*, 47(3): 242-249.
- Mhandire, D., Lacerda, M., Castel, S.A., Mhandire, K., Zhou, D., Swart, M., Shamu, T., Smith, P., Musingwini, T., Wiesner, L., Stray-Pedersen, S.P.B. and Dandara, C. 2015. Effects of CYP2B6 and CYP1A2 genetic variation on Nevirapine plasma concentration and pharmacodynamics as measured by CD4 cell count in Zimbabwean HIV-infected patients. *Omicron-A Journal of Integrative Biology*, 19(9): 553-562.
- Mimano, L.N., Ferrari, G., Kapanda, G., Lisasi, E., Kulanga, A., Nyombi, B., Muiruri, G., Kessi, E., Bartlett, J.G. and Ntabaye, M. 2015. Student perceptions on the introduction of training in diagnostic laboratory techniques in an African school of medicine. *MedEdPublish*, 5(8): 1-10.
- Mitropoulos, K., Jaibeji, H., Forero, D., Laissue, P., Wonkam, A., Lopez-Correa, C., Mohamed, Z., Chantratita, W., Lee, M.T.M., Llerena, A., Brand, A., Ali, B.R. and Patrinos, G.P. 2015. Success stories in genomic medicine from resource-limited countries. *Human Genomics*, 9: 11(7pp).
- Mller, A.D. 2015. Strategies to include sexual orientation and gender identity in health professions education. *African Journal of Health Professions Education*, 7(1): 4-7.
- Mohr, E., Cox, V., Wilkinson, L., Moyo, S., Hughes, J., Daniels, J., Muller, O. and Cox, H. 2015. Programmatic treatment outcomes in HIV-infected and uninfected drug-resistant TB patients in Khayelitsha, South Africa. *Transactions of the Royal Society of Tropical Medicine and Hygiene*, 109: 425-432.
- Mole, C., Heyns, M. and Cloete, T.J. 2015. How hard is hard enough? An investigation of the force associated with lateral blunt force trauma to the porcine cranium. *Legal Medicine*, 17: 1-8.
- Moodley, J.R., Singh, V., Kagina, B., Abdullahi-Hussein, L. and Hussey, G.D. 2015. A bibliometric analysis of cancer research in South Africa: study protocol. *BMJ Open*, 5: e006913(4pp).
- Moodley, N., Ngxamngxa, U., Turzyniecka, M. and Pillay, T. 2015. Historical perspectives in clinical pathology: a history of glucose measurement. *Journal of Clinical Pathology*, 68: 258-264.
- Moody, M.A., Gao, F., Gurley, T.C., Amos, J.D., Kumar, A., Hora, B., Marshall, D.J., Whitesides, J.F., Xia, S.-M., Parks, R. and Ferrari, G. 2015. Strain-specific V3 and CD4 binding site autologous HIV-1 neutralizing antibodies select neutralization-resistant viruses. *Cell Host & Microbe*, 18: 354-362.
- Moore, P.L., Williamson, C. and Morris, L. 2015. Virological features associated with the development of broadly neutralizing antibodies to HIV-1. *Trends in Microbiology*, 23(4): 204-211.
- Movahedi, M., Bishop, D.T., Macrae, F., Mecklin, J.P., Moeslein, G., Olschwang, S., Eccles, D., Evans, G., Maher, E., Bertario, L., Bisgaard, S., Dunlop, M., HO, J.W.C., Hodgson, S., Lindblom, A., Lubinski, J., Morrison, P.J., Murday, V. and Ramesar, R.S. 2015. Obesity, aspirin, and risk of colorectal cancer in carriers of hereditary colorectal cancer: a prospective investigation in the CAPP2 study. *Journal of Clinical Oncology*, 33(31): 3591-3597.
- Moyo, S., Cox, H., Hughes, J., Daniels, J., Synman, L., De Azevedo, V., Shroufi, A., Cox, V. and Van Cutsem, G. 2015. Loss from treatment for drug resistant tuberculosis: risk factors and patient outcomes in a community-based program in Khayelitsha, South Africa. *PLoS One*, 10(3): e0118919.
- Moyo, S., Furin, J.J., Hughes, J., Daniels, J., Synman, L., Muller, O., Cox, V., Shroufi, A. and Cox, H. 2015. Outcomes in adolescents undergoing treatment for drug-resistant tuberculosis in Cape Town, South Africa, 2008-2013. *Archives of Pediatric Infectious Diseases*, 3(1TB): e17934(6pp).
- Mulenga, H., Tameris, M.D., Luabeya, K.K.A., Geldenhuys, H.D., Scriba, T., Hussey, G.D., Mahomed, H., Landry, B., Hanekom, W.A., McShane, H. and Hatherill, M. 2015. The role of clinical symptoms in the diagnosis of intrathoracic tuberculosis in young children. *Pediatric Infectious Disease Journal*, 34: 1157-1162.
- Muloiwa, R., Kagina, B., Engel, M.E. and Hussey, G.D. 2015. The burden of pertussis in low- and middle-income countries since the inception of the Expanded Programme on Immunization (EPI) in 1974: a systematic review protocol. *Systematic Reviews*, 4: 62(7pp).
- Myers, L., Phillips, T., Hsiao, N.M., Zerbe, A., Petro, G.A., Bekker, L., McIntyre, J.A. and Abrams, E. 2015. Plasma viraemia in HIV-positive pregnant women entering antenatal care in South Africa. *Journal of the International AIDS Society*, 18: 20045(5pp).
- Naidoo, N., Artz, L.M., Martin, L.J. and Zaltaonker, M. 2014. 'A stitch in time may save nine': a systematic

- synthesis of the evidence for domestic violence management and prevention in emergency care. *African Safety Promotion*, 12(2): 30-48.
- Namale, P., Abdullahi-Hussein, L., Fine, S., Kamkuemah, M.N., Wilkinson, R.J. and Meintjies, G. 2015. Paradoxical TB-IRIS in HIV-infected adults: a systematic review and meta-analysis. *Future Microbiology*, 10(6): 1077-1099.
- Narrandes, N.C., Machowski, E.E., Mizrahi, V. and Kana, B.D. 2015. Cleavage of the moaX-encoded fused molybdopterin synthase from *Mycobacterium tuberculosis* is necessary for activity. *BMC Microbiology*, 15: 22(12pp).
- Nemes, E., Kagina, B., Smit, E., Africa, H., Steyn, M., Hanekom, W.A. and Scriba, T.J. 2015. Differential leukocyte counting and immunophenotyping in cryopreserved ex vivo whole blood. *Cytometry Part A*, 87A: 157-165.
- Ngcapu, S.N., Masson, L., Sibeko, S., Werner, L., McKinnon, L.R., Mlisana, K., Shey, M., Samsunder, N., Abdool Karim, S.S., Abdool Karim, Q. and Passmore, J. 2015. Lower concentrations of chemotactic cytokines and soluble innate factors in the lower female genital tract associated with the use of injectable hormonal contraceptive. *Journal of Reproductive Immunology*, 110: 14-21.
- Ngo Bitoungu, V., Pule, G.D., Hanchard, N., Ngogang, J. and Wonkam, A. 2015. Beta-Globin Gene Haplotypes among Cameroonians and review of the global distribution: is there a case for a single sickle mutation origin in Africa? *Omics-A Journal of Integrative Biology*, 19(3): 171-179.
- Nicol, M.P., Gnanashanmugam, D., Browning, R., Click, E.S., Cuevas, L.E., Detjen, A., Graham, S.M., Levin, M., Makhene, M., Nahid, P., Perez-Velez, C.M., Reither, K., Song, R., Spiegel, H.M.L., Worrell, C., Zar, H.J. and Walzl, G. 2015. A blueprint to address research gaps in the development of biomarkers for pediatric tuberculosis. *Clinical Infectious Diseases*, 61(Suppl 3): S164-S172.
- Offerman, K., Deffur, A., Carulei, O., Wilkinson, R.J., Douglass, N. and Williamson, A.-L. 2015. Six host-range restricted poxviruses from three genera induce distinct gene expression profiles in an in vivo mouse model. *BMC Genomics*, 16: 510(20pp).
- Okiro, P., Wainwright, H.C., Spranger, J. and Beighton, P. 2015. Autopsy observations in lethal short-rib polydactyly syndromes. *Pediatric and Developmental Pathology*, 18: 40-48.
- Oladokun, R., Korsman, S.N.J., Ndabambi, N.P., Hsiao, N.M., Hans, L., Williamson, C., Abrahams, M. and Eley, B.S. 2015. False-negative HIV-1 polymerase chain reaction in a 15-month-old boy with HIV-1 subtype C infection. *SAMJ South African Medical Journal*, 105(10): 877(3pp).
- Olleros, M., Chavez-Galan, L., Segueni, N., Bourigault, M.L., Vesin, D., Kruglov, A.A., Drutskaya, M.S., Bisig, R., Ehlers, S., Aly, S., Walter, K. and Ryffel, B. 2015. Control of mycobacterial infections in mice expressing human tumor necrosis factor (TNF) but not mouse TNF. *Infection and Immunity*, 83(9): 3612-3623.
- Omar, F., Dave, J.A., King, J.A., Levitt, N. and Pillay, T. 2015. High Molecular Weight (HMW): total adiponectin ratio is low in HIV-infected women receiving protease inhibitors. *BMC Clinical Pathology*, 14(46): 1-7.
- Orren, A., Thomas, A., Leisegang, F., Wurzner, R., Owen, E.P. and Potter, P.C. 2015. South African patients with genetic deficiencies of complement components C5 and C6 suffer a marked increase in susceptibility to meningococcal disease. *Current Allergy & Clinical Immunology*, 28(3): 192-194.
- Owen, P., Nandhlal, J., Leisegang, F., Van Der Watt, G.F., Nourse, P.J. and Gajjar, P. 2015. Common mutation causes cystinosis in the majority of black South African patients. *Pediatric Nephrology*, 30: 595-601.
- Owen, P., Wurzner, R., Leisegang, F., Rizkallah, P., Whitelaw, A.C., Simpson, J., Thomas, A., Harris, C.L., Giles, J.L., Hellerud, B.C., Mollnes, T.E., Morgan, B.P., Potter, P.C. and Orren, A. 2015. A complement C5 gene mutation, c.754G>A: p.A252T, is common in the Western Cape, South Africa and found to be homozygous in seven percent of Black African meningococcal disease cases. *Molecular Immunology*, 64: 170-176.
- Paccez, J.D., Duncan, K., Correa, R.G., Libermann, T.A., Parker, M.I., Zerbini, L.F. and Vava, A. 2015. Inactivation of GSK3 and activation of NF- $\kappa$ B pathway via Axl represents an important mediator of tumorigenesis in esophageal squamous cell carcinoma. *Molecular Biology of the Cell*, 26: 821-831.
- Pellet Madan, R., Masson, L., Tugetman, J., Werner, L., Grobler, A.C., Mlisana, K., Lo, Y., Che, D., Arnold, K.B., Karim, S.S.A., Passmore, J. and Herold, B.C. 2015. Innate antibacterial activity in female genital tract secretions is associated with increased risk of HIV acquisition. *AIDS Research and Human Retroviruses*, 31(11): 1153-1159.
- Permar, S.R., Fong, Y., Vandergrift, N., Fouda, G.G., Gilbert, P.B., Parks, R., Jaeger, F.H., Pollara, J., Martelli, A., Liebl, B., Lloyd, K., Yates, N., Overman, R.G., Shen, X., Whitaker, K., Chen, H., Pritchett, J., Solomon, E., Friberg, E., Marshall, D.J., Whitesides, J.F., Gurley, T.C., Von Holle, T., Martinez, D.R., Cai, F., Kumar, A., Xia, S.-M., Lu, X., Louzao, R., Wilkes, S., Datta, S.,

- Sarzotti-Kelsoe, M., Liao, H.-X., Ferrari, G., Alam, S.M., Montefiori, D.C., Denny, T.N., Moody, M.A., Tomaras, G.D., Gao, F. and Haynes, B.F. 2015. Maternal HIV-1 envelope-specific antibody responses and reduced risk of perinatal transmission. *Journal of Clinical Investigation*, 125(7): 2702-2706.
- Perovic, O., Iyaloo, S., Kularatne, R., Lowman, W., Bosman, N., Wadula, J., Seetharam, S., Duse, A.G., Mbelle, N., Bamford, C., Dawood, H., Mahabeer, Y., Bhola, P., Abrahams, S. and Singh-Moodley, A. 2015. Prevalence and trends of *Staphylococcus aureus* Bacteraemia in hospitalized patients in South Africa, 2010 to 2012: laboratory-based surveillance mapping of antimicrobial resistance and molecular epidemiology. *PLoS One*, 10(12): e0145429(14pp).
- Phillips, P., McGrath, E., Sekar, D., Sookhayi, R., Govender, D., Mohamed, Z., Zerbini, L.F. and Naidoo, R. 2015. MicroRNA 21 expression levels in HIV negative and HIV positive diffuse large B Cell Lymphoma. *Hereditary Genetics: Current Research*, 4(2): 1000143(4pp).
- Pinto, L.G., Talbot, J., Peres, R.S., Franca, R.F., Ferreira, S.H., Ryffel, B., Aves-Filho, J.F., Figueiredo, F., Cunha, T.M. and Cunha, F. 2015. Joint production of IL-22 participates in the initial phase of antigen-induced arthritis through IL-1 production. *Arthritis Research & Therapy*, 17: 235(13pp).
- Pollara, J., McGuire, E., Fouda, G.G., Rountree, W., Eudailey, J., Overman, R.G., Seaton, K.E., Deal, A., Edwards, R.W., Tegha, G., Kamwendo, D., Kumwenda, J., Nelson, J.A.E., Liao, H.-X., Brinkley, C., Denny, T.N., Ochsenbauer, C., Ellington, S., King, C.C., Jamieson, D.J., van der Horst, C., Kourtis, A.P., Tomaras, G.D., Ferrari, G. and Permar, S.R. 2015. Association of HIV-1 envelope-specific breast Milk IgA responses with reduced risk of postnatal mother-to-child transmission of HIV-1. *Journal of Virology*, 89(19): 9952-9961.
- Potter, P.C., Baker, S., Fenemore, B. and Nurse, B. 2015. Clinical and cytokine responses to house dust mite sublingual immunotherapy. *Annals of Allergy Asthma & Immunology*, 114: 327-334.
- Potter, P.C., Ehrlich, R.I., van Rooyen, C. and Fenemore, B. 2015. Occupational sensitization to African penguin serum and mucus proteins. *Annals of Allergy Asthma & Immunology*, 114: 345-347.
- Prentice, H., Tomaras, G.D., Geraghty, D.E., Apps, R., Fong, Y., Ehrenberg, P.K., Rolland, M., Kijak, G.H., Krebs, S., Nelson, W. and Ferrari, G. 2015. HLA class II genes modulate vaccine-induced antibody responses to affect HIV-1 acquisition. *Science Translational Medicine*, 7(296): 296ra112(8pp).
- Prideaux, B., Via, L., Zimmerman, M., Eum, S., Sarathy, J., O'Brien, P., Chen, C., Kaya, F., Weiner, D.M., Chen, P.-Y., Song, T., Lee, M., Shim, T.S., Cho, J.-S., Kim, W., Cho, S.N. and Barry, C. 2015. The association between sterilizing activity and drug distribution into tuberculosis lesions. *Nature Medicine*, 21(10): 1223-1227.
- Pule, G.D., Mowla, S.B., Novitzky, N., Wiysonge, C. and Wonkam, A. 2015. A systematic review of known mechanisms of hydroxyurea-induced fetal hemoglobin for treatment of sickle cell disease. *Expert Review of Hematology*, 8(5): 669-679.
- Pule, G.D., Ngo Bitoungui, V.J., Chemegni, B.C., Kengne, A.P., Antonarakis, S. and Wonkam, A. 2015. Association between variants at BCL11A erythroid-specific enhancer and fetal hemoglobin levels among Sickle Cell disease patients in Cameroon: implications for future therapeutic interventions. *Omics-A Journal of Integrative Biology*, 19(10): 627-631.
- Raban, M., Bamford, C., Joolay, Y. and Harrison, M. 2015. Impact of an educational intervention and clinical performance dashboard on neonatal bloodstream infections. *SAMJ South African Medical Journal*, 105(7): 564-566.
- Rabeony, H., Pohin, M., Vasseur, P., Petit-Paris, I., Jgou, J.-F., Favot, L., Frouin, E., Boutet, M.-A., Blanchard, F., Togbe, D. and Ryffel, B. 2015. IMQ-induced skin inflammation in mice is dependent on IL-1R1 and MyD88 signaling but independent of the NLRP3 inflammasome. *European Journal of Immunology*, 45: 2847-2857.
- Ramesar, R.S. 2015. Genomics: African dawn. *Nature*, 517: 276-277.
- Ramma, L., Cox, H., Wilkinson, L., Foster, N., Cunnama, L., Vassall, A. and Sinanovic, E. 2015. Patients' costs associated with seeking and accessing treatment for drug-resistant tuberculosis in South Africa. *International Journal of Tuberculosis and Lung Disease*, 19(12): 1513-1519.
- Randall, P., Hsu, N., Quesniaux, V., Ryffel, B. and Jacobs, M. 2015. Mycobacterium tuberculosis infection of the 'non-classical immune cell'. *Immunology and Cell Biology*, 93(9): 789-795.
- Ratshikhopha, M.E., Singh, T.S., Jones, D., Jeebhay, M.F. and Lopata, A.L. 2015. High concentrations of natural rubber latex allergens in gloves used by laboratory health personnel in South Africa. *SAMJ South African Medical Journal*, 105(1): 43-46.
- Rayner, B.L. and Ramesar, R.S. 2015. The importance of G protein-coupled receptor kinase 4 (GRK4) in pathogenesis of salt sensitivity, salt sensitive hypertension and response to antihypertensive treatment. *International Journal of Molecular Sciences*, 16: 5741-5749.

- Rebe, K.B., Lewis, D.A., Myer, L., de Swardt, G., Struthers, H., Kamkuemah, M. and McIntyre, J.A. 2015. A cross sectional analysis of gonococcal and chlamydial infections among men-who-have-sex-with-men in Cape Town, South Africa. *PLoS One*, 10(9): e0138315(12pp).
- Reed, C., Mason, L., Cox, H., Seaworth, B., Lessem, E. and Furin, J.J. 2015. Compassionate and optimum use of new tuberculosis drugs. *Lancet Infectious Diseases*, 15(10): 1131-1132.
- Richardson, S.I., Gray, E.S., Mkhize, N.N., Sheward, D., Lambson, B.E., Wibmer, C.K., Masson, L., Werner, L., Garrett, N.G., Passmore, J., Abdool Karim, Q., Abdool Karim, S.S., Williamson, C., Moore, P.L. and Morris, L. 2015. South African HIV-1 subtype C transmitted variants with a specific V2 motif show higher dependence on 47 for replication. *Retrovirology*, 12: 54(16pp).
- Riou, C., Tanko, T., Soares, A.P., Masson, L., Werner, L., Garrett, N.G., Samsunder, N., Abdool Karim, Q., Abdool Karim, S.S. and Burgers, W. 2015. Restoration of CD4+ responses to copathogens in HIV-infected individuals on antiretroviral therapy is dependent on T cell memory phenotype. *Journal of Immunology*, 195: 2273-2281.
- Roberts, L., George, S., Greenberg, J. and Ramesar, R.S. 2015. A founder mutation in MYO7A underlies a significant proportion of Usher Syndrome in indigenous South Africans: implications for the African diaspora. *Investigative Ophthalmology & Visual Science*, 56: 6671-6678.
- Roberts, R. and Govender, D. 2015. Gene of the month: KIT. *Journal of Clinical Pathology*, 68: 671-674.
- Roberts, T., Stephen, L., Scott, C., Pasquale, T., Naser-Eldin, A., Chetty, M., Shaik, S., Lewandowski, L.B. and Beighton, P. 2015. Candle Syndrome: orofacial manifestations and dental implications. *Head & Face Medicine*, 11: 38(7pp).
- Rockwood, N., Abdullahi-Hussein, L., Wilkinson, R.J. and Meintjes, G. 2015. Risk factors for acquired rifamycin and isoniazid resistance: a systematic review and meta-analysis. *PLoS One*, 10(9): e0139017(23pp).
- Roy, S., Guler, R., Parihar, S., Schmeier, S., Kaczowski, B., Nishimura, H., Shin, J.W., Negishi, Y., Ozturk, M., Hurdal, R., Kubosaki, A., Kimura, Y., de Hoon, M.J.L., Hayashizaki, Y., Brombacher, F. and Suzuki, H. 2015. Batf2/Irf1 induces inflammatory responses in classically activated macrophages lipopolysaccharides and mycobacterial infection. *Journal of Immunology*, 194: 6035-6044.
- Roy, S., Schmeier, S., Arner, E., Alam, T., Parihar, S., Ozturk, M., Tamgue, O., Kawaji, H., de Hoon, M.J.L., Itoh, M., Lassmann, T., Carninci, P., Hayashizaki, Y., Forrest, A.R.R., Bajic, V.B., Guler, R., Brombacher, F. and Suzuki, H. 2015. Redefining the transcriptional regulatory dynamics of classically and alternatively activated macrophages by deepCAGE transcriptomics. *Nucleic Acids Research*, 43(14): 6969-6982.
- Santra, S., Tomaras, G.D., Warriar, R., Nicely, N., Liao, H.-X., Pollara, J., Liu, P., Alam, S.M., Zhang, R., Cocklin, S., Shen, X. and Ferrari, G. 2015. Human non-neutralizing HIV-1 envelope monoclonal antibodies limit the number of founder viruses during SHIV mucosal infection in Rhesus Macaques. *PLoS Pathogens*, 11(8): e1005042(38pp).
- Schlgel, M.J., Mendola, A., Fastre, E., Vasudevan, P., Devriendt, K., de Ravel, T., Van Esch, H., Casteels, I., Carrera, I., Cristofoli, F., Fieggen, K., Jones, K., Lipson, M., Balikova, I., Singer, A., Soller, M., Villanueva, M.M., Revencu, N., Boon, L.M., Brouillard, P. and Vikkula, M. 2015. No evidence of locus heterogeneity in familial microcephaly with or without chorioretinopathy, lymphedema, or mental retardation syndrome. *Orphanet Journal of Rare Diseases*, 10: 52(11pp).
- Schwartz, I.S., Kenyon, C., Feng, P., Govender, N., Dukik, K., Sigler, L., Jiang, Y., Stielow, J.B., Muoz, J.F., Cuomo, C.A., Botha, A. and Stchigel, A.M. 2015. 50 Years of Emmonsia disease in humans: the dramatic emergence of cluster of novel fungal pathogens. *PLoS Pathogens*, 11(11): e1005198(8pp).
- Segueni, N., Vigne, S., Palmer, G., Bourigault, M.L., Olleros, M., Vesin, D., Garcia, I., Ryffel, B., Quesniaux, V.F.J. and Gabay, C. 2015. Limited contribution of IL-36 versus IL-1 and TNF pathways in host response to mycobacterial infection. *PLoS One*, 10(5): e0126058(21pp).
- Shaboodien, G., Watkins, D.A., Pillay, K., Beighton, P., Heckmann, J.M. and Mayosi, B.M. 2015. Limb-girdle weakness in a marfanoid man: distinguishing calpainopathy from Becker's muscular dystrophy. *Practical Neurology*, 15: 152-154.
- Sheward, D., Ntale, R., Garrett, N.G., Woodman, Z.L., Abdool Karim, S.S. and Williamson, C. 2015. HIV-1 superinfection resembles primary infection. *Journal of Infectious Diseases*, 212: 904-908.
- Shey, M., Garrett, N.G., McKinnon, L.R. and Passmore, J. 2015. The role of dendritic cells in driving genital tract inflammation and HIV transmission risk: are there opportunities to intervene? *Innate Immunity*, 21(1): 99-112.
- Sinanovic, E., Ramma, L., Vassall, A., Azevedo, V., Wilkinson, L., Ndjeka, N., McCarthy, K.M., Churchyard, G.J. and Cox, H. 2015. Impact of reduced hospitalisation on the cost of treatment for drug-resistant tuberculosis in South Africa. *International*

- Journal of Tuberculosis and Lung Disease, 19(2): 172-178.
- Singh, V., Brecik, M., Mukherjee, R., Evans, J., Vetlkov, Z., Blako, J., Surade, S., Blackburn, J., Warner, D., Mikuov, K. and Mizrahi, V. 2015. The complex mechanism of antimycobacterial action of 5-Fluorouracil. *Chemistry & Biology*, 22: 63-75.
- Skead, G. and Govender, D. 2015. Gene of the month: MET. *Journal of Clinical Pathology*, 68: 405-409.
- Smith, D., Atadzhanov, M., Mwaba, M. and Greenberg, L.J.H.L. 2015. Evidence for a common founder effect amongst South African and Zambian individuals with Spinocerebellar ataxia type 7. *Journal of the Neurological Sciences*, 354: 75-78.
- Soares, A.P., Muller, T.L., Chege, G., Williamson, A.-L. and Burgers, W. 2015. Transient global T cell activation after vaccination of rhesus macaques with a DNA-poxvirus vaccine regimen for HIV. *Vaccine*, 33: 3435-3439.
- Solomon, G.A.E., Jones, G., de Jong, G.J. and Marais, D. 2015. Biochemical and genetic diagnosis of Smith-Lemli-Opitz syndrome in South Africa. *South African Journal of Child Health*, 9(1): 23-26.
- Sonderup, M.W., Wainwright, H.C., Hall, P., Hairwadzi, H. and Spearman, W. 2015. A clinicopathological cohort study of liver pathology in 301 patients with Human Immunodeficiency Virus/Acquired Immune Deficiency Syndrome. *Hepatology*, 61: 1721-1729.
- Song, T., Lee, M., Jeon, H.S., Park, Y., Dodd, L.E., Dartois, V., Follmann, D., Wang, J., Cai, Y., Goldfeder, L.C., Olivier, K., Xie, Y., Via, L., Cho, S.N., Barry, C. and Chen, R.Y. 2015. Linezolid trough concentrations correlate with mitochondrial toxicity-related adverse events in the treatment of chronic extensively drug-resistant Tuberculosis. *EBioMedicine*, 2: 1627-1633.
- Spanos, J., Hsu, N. and Jacobs, M. 2015. Microglia are crucial regulators of neuro-immunity during central nervous system tuberculosis. *Frontiers in Cellular Neuroscience*, 9: 182(14pp).
- Stanfliet, J.C., Locketz, M.L., Berman, P. and Pillay, T. 2015. Evaluation of the utility of serum prolidase as a marker for liver fibrosis. *Journal of Clinical Laboratory Analysis*, 29(3): 208-213.
- Subbian, S., Tsenova, L., Kim, M.-J., Wainwright, H.C., Visser, A., Bandyopadhyay, N., Bader, J.S., Karakousis, P., Murrmann, G.B., Bekker, L., Russell, D.G. and Kaplan, G. 2015. Lesion-specific immune response in granulomas of patients with pulmonary tuberculosis: a pilot study. *PLoS One*, 10(7): e0132249(21pp).
- Sung, J.A.M., Pickeral, J., Liu, L., Stanfield-Oakley, S.A., Kao Lam, C.-Y., Garrido, C., Pollara, J., Labranche, C., Bonsignori, M., Moody, M.A., Yang, Y., Parks, R., Archin, N., Allard, B., Kirchherr, J., Kuruc, J.D., Gay, C.L., Cohen, M.S., Ochsenbauer, C., Soderberg, K., Liao, H.-X., Montefiori, D.C., Moore, P., Johnson, S., Koenig, S., Haynes, B.F., Nordstrom, J., Margolis, D. and Ferrari, G. 2015. Dual-affinity re-targeting proteins direct T cell-mediated cytolysis of latently HIV-infected cells. *Journal of Clinical Investigation*, 125(11): 4077-4090.
- Sweijd, N.A., Wright, C.Y., Westwood, A.T.R., Rouault, M., Landman, W.A., MacKenzie, M.L., Nuttall, J.J., Mahomed, H., Cousins, T., Winter, K.J., Berhoozi, F., Kalule, B., Kruger, P., Govender, T. and Minakawa, N. 2015. Climate change is catchy – but when will it really hurt? *SAMJ South African Medical Journal*, 105(12): 1018-1023.
- Tanyanyiwa, D., Dandara, C., Bhana, S.A., Pauly, B., Marule, F., Ramokoka, M., Bwititi, P., Nwose, U. and Nkosi, B. 2015. Implementation of POCT in the diabetic clinic in a large hospital. *African Health Sciences*, 15(3): 902-907.
- Tayib, S., Allan, B.R., Williamson, A.-L. and Denny, L.A. 2015. Human papillomavirus genotypes and clinical management of genital warts in women attending a colposcopy clinic in Cape Town, South Africa. *SAMJ South African Medical Journal*, 105(8): 679-684.
- Tchakoute, C.T., Hesselting, A.C., Kidzeru, E., Gamielien, H., Passmore, J.S., Jones, C.E., Gray, C., Sodora, D. and Jaspan, H.B. 2015. Delaying BCG vaccination until 8 weeks of age results in robust BCG-specific T-Cell responses in HIV-exposed infants. *Journal of Infectious Diseases*, 211: 338-346.
- Thomford, N., Dzobo, K., Chopera, D., Wonkam, A., Skelton, M., Blackhurst, D.M., Chirikure, S. and Dandara, C. 2015. Pharmacogenomics implications of using herbal medicinal plants on African populations in health transition. *Pharmaceuticals*, 8: 637-663.
- Tongo Passo, A., Dorfman, J., Abrahams, M.H., Mpoudi-Ngole, E., Burgers, W. and Martin, D.P. 2015. Near full-length HIV type 1M genomic sequences from Cameroon: evidence of early diverging under-sampled lineages in the country. *Evolution, Medicine & Public Health*, 25(1): 254-265.
- Tongo Passo, A., Essomba, R., Nindo, F., Abrahams, F., Nanfack, A.J.N., Fokam, J., Takou, D.T., Torimiro, J.N.T., Mpoudi-Ngole, E., Burgers, W., Martin, D.P. and Dorfman, J. 2015. Phylogenetics of HIV-1 subtype G env: greater complexity and older origins than previously reported. *Infection Genetics and Evolution*, 35: 9-18.
- Tongo Passo, A., Riou, C., Crunchant, E., Muller, T.L., Strickland, N., Mpoudi Ngole, E. and Burgers, W. 2015. Evaluating potential T-cell epitope peptides for detecting HIV-specific T cell responses in a highly diverse HIV-1 epidemic from Cameroon. *AIDS*, 29: 635-639.



- Uthman, O.A., Wiysonge, C., Ota, O., Nicol, M.P., Hussey, G.D., Ndumbe, P.M. and Mayosi, B.M. 2015. Increasing the value of health research in the WHO African Region beyond 2015 – reflecting on the past, celebrating the present and building the future: a bibliometric analysis. *BMJ Open*, 5: e006340(70pp)
- Valley-Omar, Z., Nindo, F., Mudau, M., Hsiao, N.-Y. and Martin, D.P. 2015. Phylogenetic exploration of nosocomial transmission chains of 2009 Influenza A/H1N1 among children admitted at Red Cross War Memorial Children's Hospital, Cape Town, South Africa in 2011. *PLoS One*, 10(11): e0141744 (16pp).
- van der Westhuizen, F.H., Sinxadi, P., Dandara, C., Smuts, I., Meldau, S., Malik, A.N., Sweeney, M.G., Tsai, Y., Towers, G.W., Louw, R., Gorman, G., Payne, B., Soodyall, H., Pepper, M.S., Elson, J. and Riordan, G.T.M. 2015. Understanding the implications of Mitochondrial DNA variation in the health of black Southern African populations: the 2014 workshop. *Human Mutation*, 36(5): 569-571.
- van der Westhuyzen, R., Winks, S., Wilson, C., Boyle, G., Gessner, R.K., Soares de Melo, C., Taylor, D., De Kock, C., Njoroge, M., Brunschwig, C., Lawrence, N., Rao, S.P.S., Sirgel, F.A., van Helden, P., Seldon, R., Moosa, A., Warner, D., Arista, L., Manjunatha, U.H., Smith, P.W., Street, L.J. and Chibale, K. 2015. Pyrrolo[3,4-c]pyridine-1,3(2H)-diones: a novel antimycobacterial class targeting mycobacterial respiration. *Journal of Medicinal Chemistry*, 58: 9371-9381.
- Van Zyl Smit, R., Naidoo, J., Wainwright, H.C., Said-Hartley, Q.M., Davids, M., Goodman, H.T., Rogers, S. and Dheda, K. 2015. HIV associated Lymphocytic Interstitial Pneumonia: a clinical, histological and radiographic study from an HIV endemic resource-poor setting. *BMC Pulmonary Medicine*, 15: 38(7pp).
- Via, L.E., England, K., Weiner, D.M., Schimel, D., Zimmerman, M., Dayao, E., Chen, R.Y., Dodd, L.E., Richardson, M., Robbins, K.K., Cai, Y., Hammoud, D.A., Herscovitch, P., Dartois, V., Flynn, J. and Barry, C. 2015. A sterilizing tuberculosis treatment regimen is associated with faster clearance of bacteria in cavitory lesions in marmosets. *Antimicrobial Agents and Chemotherapy*, 59(7): 4181-4189.
- Vorster, A.A., Beighton, P. and Ramesar, R.S. 2015. Spondyloepimetaphyseal dysplasia with joint laxity (Beighton type); mutation analysis in eight affected South African families. *Clinical Genetics*, 87(5): 492-495.
- Warner, D. 2015. Mycobacterium tuberculosis metabolism. *Cold Springs Harbor Perspectives in Medicine*, 5(4): a021121(24pp).
- Warner, D., Koch, A. and Mizrahi, V. 2015. Diversity and disease pathogenesis in mycobacterium tuberculosis. *Trends in Microbiology*, 23(1): 14-21.
- Watson, C.M., Crinnion, L.A., Gleghorn, L., Newman, W.G., Ramesar, R.S., Beighton, P. and Wallis, G. 2015. Identification of a mutation in the ubiquitin-fold modifier 1-specific peptidase 2 gene, UFSP2, in an extended South African family with Beukes hip dysplasia. *SAMJ South African Medical Journal*, 105(7): 558-563.
- Wessels, T.-M., Koole, T. and Penn, C. 2015. 'And then you can decide' – antenatal foetal diagnosis decision making in South Africa. *Health Expectations*, 18(6): 3313-3324.
- Wienand, K. and Shires, K.L. 2015. The use of MAGE C1 and flow cytometry to determine the malignant cell type in multiple myeloma. *PLoS One*, 10(3): e0120734(15pp).
- Wilkinson, K., Walker, N.F., Meintjes, G., Deffur, A., Nicol, M.P., Skolimowska, K., Matthews, K., Tadokera, R., Seldon, R.R., Maartens, G., Rangaka, M.X., Besra, G.S. and Wilkinson, R.J. 2015. Cytotoxic mediators in paradoxical HIV-tuberculosis immune reconstitution inflammatory syndrome. *Journal of Immunology*, 194: 1748-1754.
- Williams, M., Shanley, C.A., Zilavy, A., Peixoto, B., Manca, C., Kaplan, G., Orme, I.M., Mizrahi, V. and Kana, B.D. 2015. bis-molybdopterin guanine dinucleotide is required for persistence of mycobacterium tuberculosis in guinea pigs. *Infection and Immunity*, 83(2): 544-550.
- Williams, W., Liao, H.-X., Moody, M.A., Kepler, T., Alam, S.M., Gao, F., Wiehe, K., Trama, A.M., Jones, K., Zhang, R. and Ferrari, G. 2015. Diversion of HIV-1 vaccine-induced immunity by gp41-microbiota cross-reactive antibodies. *Science*, 349(6249): aab1253(9pp).
- Williamson, A.-L. 2015. The interaction between Human Immunodeficiency Virus and Human Papillomaviruses in heterosexuals in Africa. *Journal of Clinical Medicine*, 4: 579-592.
- Williamson, C. and Swanstrom, R. 2015. HIV-1 replication capacity: setting the pace of disease. *Proceedings of the National Academy of Sciences of the United States of America*, 112(2): 3591-3592.
- Wilson, G.J., Marakalala, M., Hoving, J., Laarhoven, A.V., Drummond, R., Kerscher, B., Keeton, R., Van De Vosse, E., Ottenhoff, T.H.M., Plantinga, T.S., Alisjahbana, B., Govender, D., Besra, G.S., Netea, M.G., Reid, D.M., Willment, J.A., Jacobs, M., Yamasaki, S., Van Crevel, R. and Brown, G.D. 2015. The C-type lectin receptor CLECSF8/CLEC4D is a key component of anti-mycobacterial immunity. *Cell Host & Microbe*, 17: 252-259.
- Wise, M.C., Hutnick, N.A., Pollara, J., Myles, D., Williams, C., Yan, J., Labranche, C., Khan, A.S., Sardesai, N.Y., Montefiori, D.C., Barnett, S., Zolla-Pazner, S., Ferrari, G. and Weiner, D.B. 2015. An enhanced synthetic

multi-clade DNA prime induces improved cross-clade reactive functional antibodies when combined with an adjuvanted protein boost in non-human primates. *Journal of Virology*, 89: 9154-9166.

Wonkam, A. 2015. Letter to the editor regarding "GJB2, GJB6 or GJA1 genes should not be investigated in routine in non syndromic deafness in people of sub-Saharan African descent. *International Journal of Pediatric Otorhino-Laryngology*, 79: 632-633.

Wonkam, A., Bosch, J., Noubiap, J.J.N., Lebeko, K., Makubalo, N. and Dandara, C. 2015. No evidence for clinical utility in investigating the Connexin genes GJB2, GJB6 and GJA1 in non-syndromic hearing loss in black Africans. *SAMJ South African Medical Journal*, 105(1): 23-26.

Wonkam, A., Makani, J., Ofori-Aquah, S., Nnodu, O.E., Treadwell, M., Royal, C. and Ohene-Frempong, K. 2015. Sickle cell disease and H3Africa: enhancing genomic research on cardiovascular diseases in African patients. *Cardiovascular Journal of Africa*, 26(2): S50-S55.

Wonkam, A., Ngo Bitoungui, V.J. and Ngogang, J. 2015. Perspectives in genetics and sickle cell disease prevention in Africa: beyond the preliminary data from Cameroon. *Public Health Genomics*, 18: 237-241.

Wonkam, A., Veigne, S., Abass, A., Ngo Um, S., Noubiap, J.J.N., Mbanya, J.C. and Sobngwi, E. 2015. Features of Turner syndrome among a group of Cameroonian patients. *International Journal of Gynecology & Obstetrics*, 129: 264-266.

Zar, H.J., Barnett, W., Myer, L., Stein, D.J. and Nicol, M.P. 2015. Investigating the early-life determinants of illness in Africa: the Drakenstein Child Health Study. *Thorax*, 70: 592-594.

Zar, H.J., Workman, L., Little, F. and Nicol, M.P. 2015. Diagnosis of pulmonary tuberculosis in children: assessment of the 2012 National Institutes of Health expert consensus criteria. *Clinical Infectious Diseases*, 61 (Suppl 3): S173-178.

Zimmerman, M., Kuehne, A., Boshoff, H.I., Barry, C., Zamboni, N. and Sauer, U. 2015. Dynamic exometabolome analysis reveals active metabolic pathways in non-replication mycobacteria. *Environmental Microbiology*, 17(11): 4802-4815.

# Primary Health Care Directorate

## Research Report 2015

### Director and Chair of Primary Health Care: Professor Steve Reid

## Directorate Profile

The vision of the Primary Health Care Directorate (PHCD) is a Health Science Faculty that promotes equity and equality in health care, guided by the principles of the primary health care approach. The Directorate aims to promote the primary health care approach in teaching, research, policy, health services provision, and community engagement undertaken by the Faculty of Health Sciences. Its objectives are to integrate a primary health care approach into the faculty's undergraduate and postgraduate teaching, learning, and research. It does this by contributing to existing curricula and creating new teaching threads. It also achieves this by extending and developing the Faculty's clinical teaching platform in rural and primary care sites; deepening community engagement within the health service and the faculty's curricula; and by enhancing the recruitment and support of students of rural origin into the faculty. The PHCD Directorate not only supports diverse research interests within the Directorate, but actively supports initiatives aimed at increase inter-disciplinary research in health sciences while promoting intra-disciplinary research beyond the health sciences. The mission of the PHCD is to promote equitable, comprehensive, compassionate, and quality care at all levels of the health system by means of evidence-based practice and policy; active health promotion; community-based education; strategic partnerships; and ongoing critical teaching and research that engages with structures of power and privilege.

## Directorate Statistics

### Permanent and Long-Term Contract Staff

Professors	1
Senior Lecturers	3
Lecturers	1
Health Teaching Platform Manager	1
Eden District CBE Coordinator	1
Site Facilitators	5
Research Officer	1
Site Coordinators	5
Facility Manager	1
Admin Staff	2
Off-Site Cleaners	3
<b>Total</b>	<b>24</b>

### Honorary Staff

Honorary Lecturers	2
Honorary Senior Lecturer	1
Honorary Research Associate	1
<b>Total</b>	<b>4</b>

## Research Fields and Staff

### Permanent staff

#### PROFESSOR STEVE REID

Head of Department & Chair of Primary Health Care: Primary health care; health equity; human resources for health; medical education; family medicine in Africa; compulsory community service; rural health; community oriented primary care (COPC); community based education; student admission and selection processes; social accountability; arts/creativity and healthcare; medical humanities; resilience in youth & service providers

#### MR JAMES IRLAM

Senior Lecturer: Primary health care; evidence-based practice; climate change and environmental health; sustainable development

#### DR CARLA TSAMPIRAS

Senior Lecturer: Critical health and medical humanities; social histories of health particularly

relating to histories of HIV and AIDS; disease and society in Africa; slavery and violence; intersections between gender, 'race', class, sexuality and health

#### MRS JOHANNAH KEIKELAME

Senior Lecturer: Primary health care; health promotion; community needs assessment; patient and carers perspectives on epilepsy

#### MRS SARAH CRAWFORD-BROWNE

Lecturer: Primary health care; psychological trauma; community based mental health programming; critical health humanities

#### MR DEHRAN SWART

Health Teaching Platform Manager: Community health; public health; health promotion; tobacco control; child energy related injuries

#### MRS CHRISTOLENE BEAUZAC

Site Facilitator: Health promotion and diabetes

### Contract Staff

#### MRS CLAUDIA NAIDU

Research Officer: Collaboration for Health Equity through Education and Research; social accountability of medical graduates

#### DR HERMANN REUTER

Eden District CBE Coordinator: HIV/AIDS/ARVs and TB; primary health care; family medicine; health and human rights; treatment literacy curriculum development; rural health; public health; community health

### Honorary Staff

#### DR BEN GAUNT

Honorary Lecturer: Primary health care; rural health; district health systems; community based healthcare & development; health systems research; multi-disciplinary healthcare; clinical services; medical education & outreach programmes; HIV/AIDS; obstetrics & gynaecology

#### DR KARL DU PRE LE ROUX

Honorary Lecturer: Primary health care; rural health; district health systems; community based healthcare & development; medical education & outreach programmes; clinical services; HIV/AIDS; obstetrics & gynaecology; nutrition research

#### DR ROB BAUM

Honorary Research Associate: Playwriting; theatre, speech, choreography & dance; movement therapy; inter-disciplinary arts research; African dance ethnography; creative arts

#### DR LOUIS JENKINS

Honorary Senior Lecturer: Primary health care; rural health; community health; obstetrics &

gynaecology; HIV/AIDS; capacity building and experiential learning; resilience and burn-out in health professionals; family medicine; postgraduate teaching & learning; educational training quality assurance

## Contact Details

Postal Address: Primary Health Care Directorate,  
Old Main Building, Groote Schuur Hospital,  
E47-25, Observatory 7925, Cape Town  
Telephone: +27 21 406 6031/6761  
Fax: +27 21 406 6015  
Email: [cha.johnston@uct.ac.za](mailto:cha.johnston@uct.ac.za)  
Website: [www.primaryhealthcare.uct.ac.za](http://www.primaryhealthcare.uct.ac.za)

Rossouw, G., Irlam, J.H. and Horn, A. 2015. Therapeutic hypothermia for hypoxic ischaemic encephalopathy using low-technology methods: a systematic review and meta-analysis. *Acta Paediatrica*, 104: 1217-1228.

Tsampiras, C. 2015. From 'Dark Country' to 'Dark Continent': AIDS, 'Race', and medical research in the South African Medical Journal, 1980-1995. *Journal of Southern African Studies*, 41(4): 773-796.

## RESEARCH OUTPUT

### Chapters in books

Baum, R. 2015. Cock up: emasculating American athletes through sick humour. In J. Knijnik and D. Adair (eds), *Embodied Masculinities in Global Sport*, pp. 15-34. Morgantown, West Virginia: FiT Publishing (a division of the International Centre for Performance Excellence). ISBN 9781935412168.

Buso, D. and Reid, S. 2015. How to make a community diagnosis and prioritise health issues. In B. Mash and J. Blitz (eds), *South African Family Practice Manual Volume 3*, pp. 497-500. 3<sup>rd</sup> edition. SA: Van Schaik Publishers. ISBN 9780627031236.

Reid, S. 2015. How to do a home visit. In B. Mash and J. Blitz (eds), *South African Family Practice Manual Volume 3*, pp. 494-496. 3<sup>rd</sup> edition. SA: Van Schaik Publishers. ISBN 9780627031236.

Reid, S. 2015. How to work with ward-based primary health care outreach teams. In B. Mash and J. Blitz (eds), *South African Family Practice Manual Volume 3*, pp. 505-507. 3<sup>rd</sup> edition. SA: Van Schaik Publishers. ISBN 9780627031236.

### Articles in peer-reviewed journals

Keikelame, M.J. and Swartz, I. 2015. A thing full of stories: traditional healers explanations of epilepsy and perspectives on collaboration with biomedical health care in Cape Town. *Transcultural Psychiatry*, 52(5): 659-680.

Le Roux, K. and Couper, I. 2015. Rural district hospitals essential cogs in the district health system and primary healthcare re-engineering. *SAMJ South African Medical Journal*, 105(6): 440-441.

# Department of Psychiatry & Mental Health

(Including the Adolescent Health Research Unit, the Alan J. Flisher Centre for Public Mental Health, the Brain-Behaviour Unit, the HIV Mental Health Research Unit, and the MRC Unit on Anxiety & Stress Disorders)

## Research Report 2015

**Head of Department: Professor Dan Stein**

## Departmental Profile

The Department of Psychiatry and Mental Health is firmly committed to strengthening the integration between services, teaching, and research. Clinicians in each of the Divisions of the Department (addiction psychiatry, child and adolescent psychiatry, liaison psychiatry, forensic psychiatry, general psychiatry, intellectual disability, psychotherapy, neuropsychiatry, psychopharmacology and biological psychiatry, and public and community mental health) are active in research in their particular areas. Thus clinical research in the Department covers key clinical problems that are relevant in the South African context, including behavioural and neuropsychiatric aspects of HIV/AIDS, substance use disorders (including fetal alcohol spectrum disorder), adolescent risk-taking behaviour, posttraumatic stress disorder, and mental health policy and services.

In addition, the Department plays a key role in several cross-departmental and cross-institutional research initiatives:

- The Adolescent Health Research Unit is located within the Division of Child and Adolescent Psychiatry, and is interested in 5 main themes: adolescent mental health, sexual and reproductive health of adolescents, intimate partner violence, health and education systems for young people, and abuse, violence and bullying. These are all highly relevant and powerful research themes in a South Africa and African context.
- The Alan J Flisher Centre for Public Mental Health is located with the Division of Public and Community Mental Health and addresses a range of questions in mental health policy,

implementation science and epidemiology. It offers advanced training in public mental health, including a MPhil and PhD in Public Mental Health. The Centre currently conducts research in 9 low and middle-income countries in Africa and south Asia, including the Programme for Improving Mental health care (PRIME) ([www.prime.uct.ac.za](http://www.prime.uct.ac.za)), the Africa Focus on Intervention Research for Mental health (AFFIRM) ([www.affirm.uct.ac.za](http://www.affirm.uct.ac.za)), and Emerging Mental Health systems in low and middle-income countries (EMERALD) ([www.emerald-project.eu](http://www.emerald-project.eu)) research and capacity building initiatives. Within the Centre, The Perinatal Mental Health Project (PMHP) contributes research on maternal mental health from its own service and training initiatives as well as in collaboration with other partners. The Centre was granted WHO Collaborating Centre status in 2015.

- The Brain-Behaviour Unit (BBU) is located within the Division of Psychopharmacology and Biological Psychiatry, and the newly formed Neuroscience Institute. The BBU comprises 3 groups, the Psychiatric Genetics Group, the Psychiatric Neuroimaging Group, and the Psychiatric Neuroscience Group. More details of the aims, methods, and partners of the initial Brain-Behaviour Initiative (BBI), are available at – <http://www.health.uct.ac.za/research/groupings/bbi/overview/>
- The HIV Mental Health Unit is located within the Division of Neuropsychiatry. Its research focus is the neurobiology of HIV-associated neurocognitive disorders in children and adults; and neuro-behavioural aspects of HIV, including adherence, and interventions to improve care. The Unit is funded by the NIMH, EDTCP and MRC.
- The SU/UCT MRC Unit on Anxiety & Stress Disorders focuses on the psychobiology and management of anxiety and related disorders, including obsessive-compulsive and related disorders, and trauma- and stressor-related disorders. Taken together these conditions are the most prevalent psychiatric disorders in South Africa. The Unit is an extramural research unit of the South African Medical Research Council.

## Departmental Statistics

### Permanent and Long-Term Contract Staff

Professors	5
Associate Professors	4
Senior Lecturers	53
Lecturers	13
Research Staff	59
Administrative and Clerical Staff	11
<b>Total</b>	<b>145</b>

### Emeritus and Honorary Staff

Emeritus Professors	5
Lecturers	8
Senior Lecturers	4
Professors	16
<b>Total</b>	<b>33</b>

### Students and Postdoctoral Fellows

Postdoctoral / Clinical Research Fellows	12
Doctoral	29
Masters	39
<b>Total</b>	<b>80</b>

## Research Fields and Staff

### DR DON WILSON

Addiction Psychiatry: Substance use and anxiety disorders

### DR LISA DANNATT

Addiction Psychiatry: Interventions

### DR CATHY MATHEWS

Child and Adolescent Psychiatry: Adolescent Health

### PROFESSOR PETRUS DE VRIES

Child and Adolescent Psychiatry: Adolescent Health, Autism Spectrum Disorders and related Neurodevelopmental Disabilities

### EMERITUS ASSOCIATE PROFESSOR ASTRID BERG

Child and Adolescent Psychiatry: Infant Mental Health

### ASSOCIATE PROFESSOR JACKIE HOARE

Consultation-Liaison Psychiatry: Liaison psychiatry and HIV

### DR KERRY LOUW

Consultation-Liaison Psychiatry: Liaison psychiatry and HIV

### MS LOUISE FENKEL

Consultation-Liaison Psychiatry: Pain

### ASSOCIATE PROFESSOR SEAN KALISKI

Forensic Psychiatry: Mentally ill offenders and femicide

### MS TANIA SWART

Forensic Psychiatry: Mentally ill offenders and femicide

### DR PETE MILLIGAN

General Psychiatry: mHealth interventions

### DR NEIL HORN

General Psychiatry: Bipolar disorder

### DR HENK TEMMINGH

General Psychiatry: Substance-induced psychosis

### DR ROBIN ALLEN

General Psychiatry: Clinical audit

### PROFESSOR COLLEEN ADNAMS

Intellectual Disability: Fetal alcohol spectrum disorder (FASD) neurobehaviour and brain imaging

### DR ADELE MARAIS

Psychotherapy: Intimate partner violence

### ASSOCIATE PROFESSOR SHARON KLEINTJES

Psychotherapy: Recovery in serious mental illness

### ASSOCIATE PROFESSOR JOHN JOSKA

Neuropsychiatry: Neurocognitive disorders and neuropsychiatry of HIV, brain imaging and HIV, ARV initiation and adherence, improving coping in women with histories of sexual trauma, and screening for cognitive disorders

### DR CARLA FREEMAN

Neuropsychiatry: Neurocognitive disorders and neuropsychiatry of HIV, brain imaging and HIV

### DR JONATHAN IPSER

Neuropsychiatry: Neurocognitive disorders and neuropsychiatry of HIV, brain imaging and HIV; Psychopharmacology and Biological Psychiatry: Brain imaging

### DR HETTA GOUSE

Neuropsychiatry: ARV initiation and adherence

### DR SAMANTHA BROOKS

Psychopharmacology and Biological Psychiatry: Brain imaging

### **DR SHAREEFA DALVIE**

Psychopharmacology and Biological Psychiatry:  
Neurogenetics

### **DR NASTASSJA KOEN**

Psychopharmacology and Biological Psychiatry:  
Neurogenetics

### **DR FLEUR HOWELLS**

Psychopharmacology and Biological Psychiatry:  
Psychiatric Neuroscience

### **DR PIETER NAUDE**

Psychopharmacology and Biological Psychiatry:  
Psychiatric Neuroscience

### **PROFESSOR DAN STEIN**

Psychopharmacology and Biological Psychiatry:  
Evidence-based psychopharmacology

### **MS TARYN AMOS**

Psychopharmacology and Biological Psychiatry:  
Evidence-based psychopharmacology

### **PROFESSOR JACK VAN HONK**

Psychopharmacology and Biological Psychiatry:  
Psychoneuroendocrinology, Urbach Weithe  
Disorder

### **PROFESSOR CRICK LUND**

Public Mental Health: Mental health policy and  
services

### **DR JOHN PARKER**

Public Mental Health: Green psychiatry

## **Contact Details**

Postal Address: UCT Department of Psychiatry  
and Mental Health, Groote Schuur Hospital,  
Observatory, Cape Town, 7925  
Telephone: +27 21 404 2174 or +27 21 406 6566  
Fax: +27 21 448 8158  
Email: [Sandra.Swart@uct.ac.za](mailto:Sandra.Swart@uct.ac.za)  
Website: [http://www.health.uct.ac.za/fhs/  
departments/psychiatry](http://www.health.uct.ac.za/fhs/departments/psychiatry)

## **RESEARCH OUTPUT**

### **Chapters in books**

Baumann, S.E. 2015. An integrated biopsychosocial  
or systematic approach. In S.E. Baumann (ed),  
Primary Care Psychiatry: A Practical Guide for  
Southern Africa, pp. 55-62. 2<sup>nd</sup> edition. Cape Town:  
Juta. ISBN 9780702197987.

Baumann, S.E. 2015. Odd ideas, voices, disorganised  
behaviours and the loss of insight: the schizophrenia

spectrum disorders. In S.E. Baumann (ed), Primary  
Care Psychiatry: A Practical Guide for Southern  
Africa, pp. 538-562. 2<sup>nd</sup> edition. Cape Town: Juta.  
ISBN 9780702197987.

Baumann, S.E. 2015. Symptoms not explained by  
medical illnesses. In S.E. Baumann (ed), Primary  
Care Psychiatry: A Practical Guide for Southern  
Africa, pp. 393-408. 2<sup>nd</sup> edition. Cape Town: Juta.  
ISBN 9780702197987.

Baumann, S.E. 2015. The confused or disturbed  
patient. In S.E. Baumann (ed), Primary Care Psychiatry:  
A Practical Guide for Southern Africa: 153-158. 2<sup>nd</sup>  
edition. Cape Town: Juta. ISBN 9780702197987.

Baumann, S.E. 2015. The difficult adult patient. In S.E.  
Baumann (eds), Primary Care Psychiatry: A Practical  
Guide for Southern Africa, pp. 331-338. 2<sup>nd</sup> edition.  
Cape Town: Juta. ISBN 9780702197987.

Baumann, S.E. and Lewis, I.G.S. 2015. Transient  
episodes of disturbed consciousness: delirium. In S.E.  
Baumann (ed), Primary Care Psychiatry: A Practical  
Guide for Southern Africa: 563-572. 2<sup>nd</sup> edition. Cape  
Town: Juta. ISBN 9780702197987.

Bentley, J.M. and Molteno, C.D. 2015. The patient and  
the family affected by an intellectual development  
disorder. In S.E. Baumann (ed), Primary Care  
Psychiatry: A Practical Guide for Southern  
Africa, 599-614. 2<sup>nd</sup> edition. Cape Town: Juta.  
ISBN 9780702197987.

Cossie, Q.Z. 2015. Southern African categories of  
distress. In S.E. Baumann (ed), Primary Care Psychiatry:  
A Practical Guide for Southern Africa: 44-54. 2<sup>nd</sup>  
edition. Cape Town: Juta. ISBN 9780702197987.

De Bever, G. and Moolman-Timmermans, T. 2015.  
Problems associated with sexuality. In S.E. Baumann  
(ed), Primary Care Psychiatry: A Practical Guide  
for Southern Africa, pp. 234-243. 2<sup>nd</sup> edition. Cape  
Town: Juta. ISBN 9780702197987.

de Jager, W. and Perkel, M.S. 2015. Using groups  
to help people. In S.E. Baumann (ed), Primary  
Care Psychiatry: A Practical Guide for Southern  
Africa, pp. 692-700. 2<sup>nd</sup> edition. Cape Town: Juta.  
ISBN 9780702197987.

Flisher, A.J., Dawes, A.R.L., Kafaar, Z., Lund, C.A.,  
Sorsdahl, K., Myers, B.J., Thom, R. and Seedat, S.  
2015. Children and adolescent mental health in South  
Africa. In E. Akyeampong, A.G. Hill, and A. Kleinman  
(eds), The Culture of Mental Illness and Psychiatric  
Practice in Africa, pp. 144-162. Bloomington, Indiana:  
Indiana University Press. ISBN 9780253012937.

Flisher, A.J. and Lund, C. 2015. Planning appropriate  
mental health services. In S.E. Baumann (ed), Primary  
Care Psychiatry: A Practical Guide for Southern  
Africa, pp. 781-792. 2<sup>nd</sup> edition. Cape Town: Juta.  
ISBN 9780702197987.

- Freeman, C. 2015. The agitated older patient. In S.E. Baumann (ed), *Primary Care Psychiatry: A Practical Guide for Southern Africa*, pp. 339-358. 2<sup>nd</sup> edition. Cape Town: Juta. ISBN 9780702197987.
- Frenkel, L. 2015. Symptoms of not coping in oneself or others: the phenomenon of burnout. In S.E. Baumann (ed), *Primary Care Psychiatry: A Practical Guide for Southern Africa*, pp. 457-466. 2<sup>nd</sup> edition. Cape Town: Juta. ISBN 9780702197987.
- Hawridge, S., Berg, A. and Seedat, S. 2015. The consequences of violence: mental health issues. In P.D. Donnelly and C.L. Ward (eds), *Oxford Textbook of Violence Prevention Epidemiology, Evidence, and Policy*, pp. 97-103. United Kingdom: Oxford University Press. ISBN 9780199678723.
- Hoosen, I. and Smith, P.S. 2015. Attempted suicide and deliberate self-harm. In S.E. Baumann (ed), *Primary Care Psychiatry: A Practical Guide for Southern Africa*, pp. 168-178. 2<sup>nd</sup> edition. Cape Town: Juta. ISBN 9780702197987.
- Horn, N. 2015. Chaotic highs and desperate lows: the bipolar mood disorders. In S.E. Baumann (ed), *Primary Care Psychiatry: A Practical Guide for Southern Africa*, pp. 525-537. 2<sup>nd</sup> edition. Cape Town: Juta. ISBN 9780702197987.
- Horn, N. and Lalkhen, N. 2015. Cognitive-behavioural and other brief psychological interventions. In S.E. Baumann (ed), *Primary Care Psychiatry: A Practical Guide for Southern Africa*, pp. 682-691. 2<sup>nd</sup> edition. Cape Town: Juta. ISBN 9780702197987.
- Howe, C.J., Serfontein, J., Nisbet, R.E.R. and de Vries, P.J. 2015. Viewing animal models for tuberous sclerosis complex in the light of evolution. In P.L. Roubertoux (ed), *Organism Models of Autism Spectrum Disorders: 99-115*. USA: Humana Press Inc. ISBN 9781493922499.
- Joska, J. 2015. The unhappy or depressed patient. In S.E. Baumann (ed), *Primary Care Psychiatry: A Practical Guide for Southern Africa*, pp. 503-524. 2<sup>nd</sup> edition. Cape Town: Juta. ISBN 9780702197987.
- Kaliski, S.Z. 2015. Legal aspects of psychiatric practice. In S.E. Baumann (ed), *Primary Care Psychiatry: A Practical Guide for Southern Africa*, pp. 639-647. 2<sup>nd</sup> edition. Cape Town: Juta. ISBN 9780702197987.
- Lewis, I.G.S. and Baumann, S.E. 2015. Traumatic brain injury, epilepsy and other neuropsychiatric disorders. In S.E. Baumann (ed), *Primary Care Psychiatry: A Practical Guide for Southern Africa*, pp. 419-446. 2<sup>nd</sup> edition. Cape Town: Juta. ISBN 9780702197987.
- Milligan, P.D. and Baumann, S.E. 2015. The medically ill patient. In S.E. Baumann (ed), *Primary Care Psychiatry: A Practical Guide for Southern Africa*, pp. 409-418. 2<sup>nd</sup> edition. Cape Town: Juta. ISBN 9780702197987.
- Moodley, A., Ganasen, K. and Jordaan, G. 2015. Investigating psychiatric disorders. In S.E. Baumann (ed), *Primary Care Psychiatry: A Practical Guide for Southern Africa*, pp. 133-149. 2<sup>nd</sup> edition. Cape Town: Juta. ISBN 9780702197987.
- Moolman-Timmermans, T. 2015. Problems associated with the female reproductive cycle. In S.E. Baumann (ed), *Primary Care Psychiatry: A Practical Guide for Southern Africa*, pp. 244-260. 2<sup>nd</sup> edition. Cape Town: Juta. ISBN 9780702197987.
- Parker, J.S. 2015. Interviewing and assessment. In S.E. Baumann (ed), *Primary Care Psychiatry: A Practical Guide for Southern Africa*, pp. 89-118. 2<sup>nd</sup> edition. Cape Town: Juta. ISBN 9780702197987.
- Patel, V. and Stein, D.J. 2015. Common mental disorders in sub-Saharan Africa: The triad of depression, anxiety and somatization. In E. Akyeampong, A.G. Hill, and A Kleinman (eds), *The Culture of Mental Illness and Psychiatric Practice in Africa*, pp. 50-72. Bloomington, Indiana: Indiana University Press. ISBN 9780253012937.
- Seedat, S. and Stein, D.J. 2015. The anxious patient: anxiety and related disorders. In S.E. Baumann (ed), *Primary Care Psychiatry: A Practical Guide for Southern Africa*, pp. 469-492. 2<sup>nd</sup> edition. Cape Town: Juta. ISBN 9780702197987.
- Smith, P.S. 2015. Diagnosis and classification. In S.E. Baumann (ed), *Primary Care Psychiatry: A Practical Guide for Southern Africa*, pp. 119-132. 2<sup>nd</sup> edition. Cape Town: Juta. ISBN 9780702197987.
- Stein, D.J. and Seedat, S. 2015. Biological causative and protective factors in mental illness. In S.E. Baumann (ed), *Primary Care Psychiatry: A Practical Guide for Southern Africa*, pp. 20-36. 2<sup>nd</sup> edition. Cape Town: Juta. ISBN 9780702197987.
- Stoloff, K. and Joska, J. 2015. HIV/AIDS and mental health. In S.E. Baumann (ed), *Primary Care Psychiatry: A Practical Guide for Southern Africa*, pp. 447-456. 2<sup>nd</sup> edition. Cape Town: Juta. ISBN 9780702197987.
- Temmingh, H.S. and Lund, C. 2015. Basic concepts in psychiatric research: tools to assist clinicians in evidence-based practice. In S.E. Baumann (ed), *Primary Care Psychiatry: A Practical Guide for Southern Africa: 63-86*. 2<sup>nd</sup>. Cape Town: Juta. ISBN 9780702197987.
- Vogel, W. and Ziervogel, C.F. 2015. The disturbed adolescent. In S.E. Baumann (ed), *Primary Care Psychiatry: A Practical Guide for Southern Africa*, pp. 306-330. 2<sup>nd</sup> edition. Cape Town: Juta. ISBN 9780702197987.
- Williams, M.F. and Wilson, D.A.B. 2015. Coping with loss: the bereavement process and adjustment disorders. In S.E. Baumann (ed), *Primary Care*



Psychiatry: A Practical Guide for Southern Africa: 187-202. 2<sup>nd</sup>. Cape Town: Juta. ISBN 9780702197987.

Wilson, D.A.B. 2015. Sleeping problems. In S.E. Baumann (ed), Primary Care Psychiatry: A Practical Guide for Southern Africa, pp. 203-218. 2<sup>nd</sup> edition. Cape Town: Juta. ISBN 9780702197987.

Wilson, D.A.B. 2015. The problem of fear and panic. In S.E. Baumann (ed), Primary Care Psychiatry: A Practical Guide for Southern Africa, pp. 493-502. 2<sup>nd</sup> edition. Cape Town: Juta. ISBN 9780702197987.

Zabow, T. 2015. How to manage a patient under the Mental Health Care Act. In B. Mash and J. Blitz (eds), South African Family Practice Manual Volume 3: 190-197. 3. SA: Van Schaik Publishers. ISBN 9780627031236.

Zabow, T. 2015. How to manage the impaired health practitioner or colleague. In B Mash and J. Blitz (eds), South African Family Practice Manual Volume 3: 574-575. 3<sup>rd</sup> edition. SA: Van Schaik Publishers. ISBN 9780627031236.

Zabow, T. 2015. The Mental Health Care Act. In S.E. Baumann (ed), Primary Care Psychiatry: A Practical Guide for Southern Africa, pp. 648-662. 2<sup>nd</sup> edition. Cape Town: Juta. ISBN 9780702197987.

## Articles in peer-reviewed journals

Albertyn, R., Berg, A., Numanoglu, A. and Rode, H. 2015. Traditional burn care in sub-Saharan Africa: a long history with wide acceptance. *Burns*, 41: 203-211.

Ali, A., Kock, E., Molteno, C.D., Mfiki, N., King, M. and Strydom, A. 2015. Ethnicity and self-reported experiences of stigma in adults with intellectual disability in Cape Town, South Africa. *Journal of Intellectual Disability Research*, 59(6): 530-540.

Andersen, L., Kagee, A., O'Cleirigh, C., Safren, S. and Joska, J. 2015. Understanding the experience and manifestation of depression in people living with HIV/AIDS in South Africa. *Aids Care*, 27(1): 59-62.

Appollis, T., Lund, C., de Vries, P.J. and Mathews, C. 2015. Adolescents' and adults' experiences of being surveyed about violence and abuse: a systematic review of harms, benefits, and regrets. *American Journal of Public Health*, 105: e31-e45.

Atwoli, L., Platt, J., Williams, D.R., Stein, D.J. and Koenen, K. 2015. Association between witnessing traumatic events and psychopathology in the South African stress and health study. *Social Psychiatry and Psychiatric Epidemiology*, 50: 1235-1242.

Atwoli, L., Stein, D.J., Koenen, K. and McLaughlin, K.A. 2015. Epidemiology of posttraumatic stress disorder: prevalence, correlates and consequences. *Current Opinion in Psychiatry*, 28: 307-311.

Baldwin, D.S. and Hanumanthaiah, V.B. 2015. Vortioxetine in the treatment of major depressive disorder. *Future Neurology*, 10(2): 79-89.

Baldwin, D.S., den Boer, J.A., Lyndon, G., Emir, B., Schweizer, E. and Haswell, H. 2015. Efficacy and safety of pregabalin in generalised anxiety disorder: a critical review of the literature. *Journal of Psychopharmacology*, 29(10): 1047-1060.

Baldwin, D.S., Manson, C. and Nowak, M. 2015. Impact of antidepressant drugs on sexual function and satisfaction. *CNS Drugs*, 29: 905-913.

Baldwin, D.S., Tiwari, N. and Gordon, R. 2015. Sense and sensibility when prescribing off-label to psychiatric patients. *Current Pharmaceutical Design*, 21(23): 3276-3279.

Baron, E.C., Field, S., Kafaar, Z. and Honikman, S. 2015. Patterns of use of a maternal mental health service in a low-resource antenatal setting in South Africa. *Health and Social Care in the Community*, 23(5): 502-512.

Bauer, M., Glenn, T.G., Alda, A.M., Andreassen, O.A., Angelopoulos, E.A., Arda, A.R., Baethge, B.C., Bauer, B.R., Baune, B.T., Bellivier, F.B., Ramesar, R.S. and Stein, D.J. 2015. Influence of light exposure during early life on the age of onset of bipolar disorder. *Journal of Psychiatric Research*, 64: 1-8.

Bauer, M., Glenn, T.G., Alda, A.M., Andreassen, O.A., Angelopoulos, E.A., Arda, A.R., Baethge, B.C., Bauer, B.R., Bellivier, F.B., Belmaker, B.R.H., Berk, M., Bjella, B.T.D., Bossini, L.B., Bersudsky, Y.B., Cheung, E.Y.W.C., Conell, C.J., Zompo, Z.M.D., Dodd, S.D., Etain, E.B., Fagiolini, A.F., Frye, M.F., Fountoulakis, K.N., Garneau-Fournier, J.D.F., Gonzalez-Pinto, G.P.A., Harima, H.H., Hassel, H.S., Henry, H.C., Lacovides, A.L., Isometsa, I.E.T., Kapczynski, K.F., Kliwicky, S.K., Konig, B.K., Krogh, K.R., Kunz, K.M., Lafer, B.L., Larsen, E.R.L., Lewitzka, U.L., Lopez-Jaramillo, L.J.C., MacQueen, M.G., Manchia, M.M., Marsh, M.W., Martinez-Cengotitabengoa, M.M.C., Melle, M.I., Monteith, M.S., Morken, G.M., Munoz, M.R., Nery, N.F.G., O'Donovan, O.C., Osher, O.Y., Pfennig, P.A., Quiroz, Q.D., Ramesar, R.S., Rasgon, R.N., Reif, R.A., Ritter, R.P., Rybakowski, R.J.K., Sagduyu, K.S., Scippa, S.A.M., Severus, E.S., Simhandl, S.C., Stein, D.J., Strejilevich, S.S., Sulaiman, A.H.S., Suominen, S.K., Tagata, T.H., Tatebayashi, T.Y., Torrent, T.C., Vieta, E.V., Viswanath, B.V., Wanchoo, W.M.J., Zetin, M.Z. and Whybrow, P.W. 2015. Influence of birth cohort on age of onset cluster analysis in bipolar I disorder. *European Psychiatry*, 30: 99-105.

Becker, E., Kuo, C., Operario, D., Moshabela, M. and Cluver, L. 2015. Measuring child awareness for adult symptomatic HIV using a verbal assessment tool: concordance between adult-child dyads on adult HIV-associated symptoms and illnesses. *Sexually Transmitted Infections*, 91(7): 528-533.

- Benson-Martin, J. and Milligan, P.D. 2015. A survey of the practice of electroconvulsive therapy in South Africa. *Journal of ECT*, 31(4): 253-257.
- Bos, P., Brummelman, E. and Terburg, D. 2015. Cognition as the tip of the emotional iceberg: A neuro-evolutionary perspective. *Behavioral and Brain Sciences*, 38: e72(2pp).
- Bos, P., Montoya, E.R., Hermans, E.J., Keyesers, C. and van Honk, J. 2015. Oxytocin reduces neural activity in the pain circuitry when seeing pain in others. *Neuroimage*, 113: 217-224.
- Boyes, M. and Cluver, L. 2015. Relationships between familial HIV/AIDS and symptoms of anxiety and depression: the mediating effect of bullying victimization in a prospective sample of South African children and adolescents. *Journal of Youth and Adolescence*, 44: 847-859.
- Brittain, K., Myers, L., Koen, N., Koopowitz, S., Donald, K.A., Barnett, W., Zar, H.J. and Stein, D.J. 2015. Risk factors for antenatal depression and associations with infant birth outcomes: results from a South African birth cohort study. *Paediatric and Perinatal Epidemiology*, 29: 505-514.
- Brooke-Sumner, C., Petersen, I., Asher, L., Mall, S., Egbe, C.O. and Lund, C. 2015. Systematic review of feasibility and acceptability of psychosocial interventions for schizophrenia in low and middle income countries. *BMC Psychiatry*, 15: 19(12pp).
- Brooks, S. and Stein, D.J. 2015. A systematic review of the neural bases of psychotherapy for anxiety and related disorders. *Dialogues in Clinical Neuroscience*, 17(3): 261-276.
- Campbell, M.M., Artz, L.M. and Stein, D.J. 2015. Sexual disorders in DSM-5 and ICD-11: a conceptual framework. *Current Opinion in Psychiatry*, 28: 435-439.
- Campbell, M.M., Susser, E., de Vries, J., Baldinger, A., Sibeko, G., Mndini, M.M., Mqulwana, S.G., Ntola, O.A., Ramesar, R.S. and Stein, D.J. 2015. Exploring researchers experiences of working with a researcher-driven, population-specific community advisory board in a South African schizophrenia genomics study. *BMC Medical Ethics*, 16: 45(9pp).
- Casale, M., Wild, L.G., Cluver, L. and Kuo, C. 2015. Social support as a protective factor for depression among women caring for children in HIV-endemic South Africa. *Journal of Behavioral Medicine*, 38(1): 17-27.
- Cheng, D.T., Jacobson, S.W., Jacobson, J.L., Molteno, C.D., Stanton, M.E. and Desmond, J.E. 2015. Eyeblink classical conditioning in alcoholism and fetal alcohol spectrum disorders. *Frontiers in Psychiatry*, 6(155): 1-7.
- Chibanda, D., Cowan, F.M., Healy, J.L., Lund, C. and Abas, M.A. 2015. Psychological interventions for common mental disorders for people living with HIV in low- and middle-income countries: systematic review. *Tropical Medicine & International Health*, 20(7): 830-839.
- Choi, K.W., Sikkema, K., Velloza, J., Marais, A., Stein, D.J., Jose, C., Watt, M.H. and Joska, J. 2015. Maladaptive coping mediates the influence of childhood trauma on depression and PTSD among pregnant women in South Africa. *Archives of Womens Mental Health*, 18: 731-738.
- Cluver, L., Hodes, R., Sherr, L., Orkin, M., Meinck, F., Ken, P.L.A., Winder-Rossi, N.E., Wolfe, J. and Vicari, M. 2015. Social protection: potential for improving HIV outcomes among adolescents. *Journal of the International AIDS Society*, 18(Suppl 6): 20260(7pp).
- Cluver, L., Hodes, R., Toska, E., Kidia, K., Orkin, F.M., Sherr, L. and Meinck, F. 2015. HIV is like a tsotsi. ARVs are your guns: associations between HIV-disclosure and adherence to antiretroviral treatment among adolescents in South Africa. *AIDS*, 29(1): S57-S65.
- Cluver, L., Orkin, M., Boyes, M.E. and Sherr, L. 2015. Child and adolescent suicide attempts, suicidal behavior, and adverse childhood experiences in South Africa: a prospective study. *Journal of Adolescent Health*, 57: 52-59.
- Curatolo, P., Moavero, R. and de Vries, P.J. 2015. Neurological and neuropsychiatric aspects of tuberous sclerosis complex. *Lancet Neurology*, 14: 733-745.
- Cuzen, N., Koopowitz, S., Ferrett, H., Stein, D.J. and Yurgelun-Todd, D. 2015. Methamphetamine and cannabis abuse in adolescence: a quasi-experimental study on specific and long-term neurocognitive effects. *BMJ Open*, 5: e005833(8pp).
- Dalvie, S., Koen, N., Duncan, L., Abbo, C., Akena, D., Atwoli, L., Chiliza, B., Donald, K.A.M., Kinyanda, E., Lochner, C., Mall, S., Nakasujja, N., Newton, C.R., Ramesar, R.S., Sibeko, G., Teferra, S., Stein, D.J. and Koenen, K. 2015. Large scale genetic research on neuropsychiatric disorders in African populations is needed. *EBioMedicine*, 2: 1259-1261.
- De Gelder, B., Huis In 't Veld, E.M.J. and Van den Stock, J. 2015. The facial expressive action stimulus test. A test battery for the assessment of face memory, face and object perception, configuration processing, and facial expression recognition. *Frontiers in Psychology*, 6: 1609(14pp).
- de Guio, F., Fontes, E.B., Okano, A.H., Schabort, E., Min, L., Basset, F., Stein, D.J. and Noakes, T.D. 2015. Brain activity and perceived exertion during cycling exercise: an fMRI study. *British Journal of Sports Medicine*, 49: 556-560.

- de Jager, C.A., Joska, J., Hoffman, M., Borochoowitz, K.E. and Combrinck, M.I. 2015. Dementia in rural South Africa: a pressing need for epidemiological studies. *SAMJ South African Medical Journal*, 105(3): 189-190.
- de Menil, V., Knapp, M., McDaid, D., Raja, S., Kingori, J., Waruguru, M. and Lund, C. 2015. Cost-effectiveness of the mental health and development model for schizophrenia-spectrum and bipolar disorders in rural Kenya. *Psychological Medicine*, 45: 2747-2756.
- de Schipper, E., Lundequist, a., Coghill, D., de Vries, P.J., Granlund, M., Holtmann, M., Jonsson, U., Karande, S., Robison, J.E., Shulman, C., Singhal, N., Tonge, B., Wong, V.C.N., Zwaigenbaum, L. and Bolte, S. 2015. Ability and disability in autism spectrum disorder: a systematic literature review employing the international classification of functioning, disability and health-children and youth version. *Autism Research*, 8: 782-794.
- de Schipper, E., Lundequist, A., Willeus, A.L., Coghill, D., de Vries, P.J., Granlund, M., Holtmann, M., Jonsson, U., Karande, S., Levy, F., AlModayfer, O., Rohde, L., Tannock, R., Tonge, B. and Bólte, S. 2015. A comprehensive scoping review of ability and disability in ADHD using the International Classification of Functioning, Disability and Health Children and Youth Version (ICFCY). *European Child & Adolescent Psychiatry*, 24: 859-872.
- de Schipper, E., Mahdi, S., Coghill, D., de Vries, P.J., ShurFen Gau, S., Granlund, M., Holtmann, M., Karande, S., Levy, F., Almodayfer, O., Rohde, L., Tannock, R. and Blte, S. 2015. Towards an ICF core set for ADHD: a worldwide expert survey on ability and disability. *European Child & Adolescent Psychiatry*, 24: 1509-1521.
- de Vries, P.J., Whittemore, V.H., Leclezio, L., Byars, A.W., Dunn, D., Ess, K., Hook, D., King, B.H., Sahin, M. and Jansen, A.C. 2015. Tuberous sclerosis associated neuropsychiatric disorders (TAND) and the TAND checklist. *Pediatric Neurology*, 52: 25-35.
- Decloedt, E.H., Rosenkranz, B., Maartens, G. and Joska, J. 2015. Central nervous system penetration of antiretroviral drugs: pharmacokinetic, pharmacodynamic and pharmacogenomic considerations. *Clinical Pharmacokinetics*, 54: 581-598.
- DellOsso, B., Nicolini, H., Lanzagorta, N., Benatti, B., Spagnolin, G., Palazzo, M.C., Marazziti, D., Hollander, E., Fineberg, N., Stein, D.J., Pallanti, S., Van Ameringen, M., Lochner, C., Hranov, G., Karamustafalioglu, O., Hranov, L., Zohar, J., Denys, D., Altamura, A.C. and Menchon, J.M. 2015. Cigarette smoking in patients with obsessive compulsive disorder: a report from the International College of Obsessive Compulsive Spectrum Disorders (ICOCS). *CNS Spectrums*, 20: 469-473.
- Dewing, S., Mathews, C., Lurie, M.N., Kagee, A., Padayachee, T. and Lombard, C. 2015. Predictors of poor adherence among people on antiretroviral treatment in Cape Town, South Africa: a case-control study. *Aids Care*, 27(3): 342-349.
- Donald, K., Eastman, E., Howells, F.M., Adnams, C.M., Riley, E.P., Woods, R., Narr, K.L. and Stein, D.J. 2015. Neuroimaging effects of prenatal alcohol exposure on the developing human brain: a magnetic resonance imaging review. *Acta Neuropsychiatrica*, 27(5): 251-269.
- Donald, K.A.M., Roos, A., Fouche, J., Koen, N., Howells, F.M., Woods, R.P., Zar, H.J., Narr, K.L. and Stein, D.J. 2015. A study of the effects of prenatal alcohol exposure on white matter microstructural integrity at birth. *Acta Neuropsychiatrica*, 27(4): 197-205.
- Draucker, C., Johnson, D.M., Johnson-Quay, N.L., Kadeba, M.T., Mazurczyk, J. and Zlotnick, C. 2015. Rapid HIV testing and counseling for residents in domestic violence shelters. *Women & Health*, 55: 334-352.
- du Plessis, L., Jacobson, S.W., Molteno, C.D., Robertson, F., Peterson, B.S., Jacobson, J.L. and Meintjes, E.M. 2015. Neural correlates of cerebellar-mediated timing during finger tapping in children with fetal alcohol spectrum disorders. *NeuroImage: Clinical*, 7: 562-570.
- du Plessis, S., Vink, M., Joska, J., Koutsilieri, E., Bagadia, A., Stein, D.J. and Emsley, R. 2015. HIV infection is associated with impaired striatal function during inhibition with normal cortical functioning on functional MRI. *Journal of the International Neuropsychological Society*, 21(9): 722-731.
- du Plessis, S., Vink, M., Joska, J., Koutsilieri, E., Bagadia, A., Stein, D.J. and Emsley, R. 2015. HIV infection results in ventral-striatal reward system hypo-activation during cue processing. *AIDS*, 29: 1335-1343.
- Du Toit, E., Thomas, E., Koen, L., Vythilingum, B., Grobler, S., Smith, N. and Niehaus, D. 2015. SSRI use in pregnancy: evaluating the risks and benefits. *South African Journal of Psychiatry*, 22(2): 48-53.
- Fan, J., Meintjes, E.M., Molteno, C.D., Spottiswoode, B., Dodge, N.C., Alhamud, A., Stanton, M.E., Peterson, B.S., Jacobson, J.L. and Jacobson, S.W. 2015. White matter integrity of the cerebellar peduncles as a mediator of effects of prenatal alcohol exposure on eyeblink conditioning. *Human Brain Mapping*, 36: 2470-2482.
- Farag, M., Stern, J., Simmons, H. and Robertson, M. 2015. Serial pharmacological prescribing practices for tic management in Tourette syndrome. *Human Psychopharmacology-Clinical and Experimental*, 30: 43.

- Fineberg, N.A., Reghunandan, S., Simpson, H.B., Phillips, K.A., Richter, M., Matthews, K., Stein, D.J., Sareen, J., Brown, A. and Sookman, D. 2015. Obsessive-compulsive disorder (OCD): practical strategies for pharmacological and somatic treatment in adults. *Psychiatry Research*, 227: 114-125.
- Folb, N., Lund, C., Fairall, L., Timmerman, V., Levitt, N., Steyn, K. and Bachmann, M.O. 2015. Socioeconomic predictors and consequences of depression among primary care attenders with non-communicable diseases in the Western Cape, South Africa: cohort study within a randomised trial. *BMC Public Health*, 15: 1194(12pp).
- Folb, N., Timmerman, V., Levitt, N., Steyn, K., Bachmann, M.O., Lund, C., Bateman, E.D., Lombard, C., Gaziano, T., Zwarenstein, M. and Fairall, L. 2015. Multimorbidity, control and treatment of noncommunicable diseases among primary healthcare attenders in the Western Cape, South Africa. *SAMJ South African Medical Journal*, 105(8): 642-647.
- Gardner, F., Waller, R., Maughan, B., Cluver, L. and Boyes, M.E. 2015. What are the risk factors for antisocial behavior among low-income youth in CapeTown? *Social Development*, 24(4): 798-814.
- Gautam, P., Lebel, C., Narr, K.L., Mattson, S.N., May, P.A., Adnams, C.M., Riley, E., Jones, K.L., Kan, E.C. and Sowell, E.R. 2015. Volume changes and brain-behavior relationships in white matter and subcortical gray matter in children with prenatal alcohol exposure. *Human Brain Mapping*, 36: 2318-2329.
- Gautam, P., Nuez, S.C., Narr, K.L., Mattson, S.N., May, P.A., Adnams, C.M., Riley, E.P., Jones, K.L., Kan, E.C. and Sowell, E.R. 2015. Developmental trajectories for visuo-spatial attention are altered by prenatal alcohol exposure: a longitudinal fMRI study. *Cerebral Cortex*, 25: 4761-4771.
- Gevers, A. and Dartnall, E. 2015. Violence prevention programme: considerations for selection and implementation. *South African Crime Quarterly*, 51: 53-55.
- Gulisano, M., Cali, P., Palermo, F., Robertson, M. and Rizzo, R. 2015. Premonitory urges in patients with Gilles de la Tourette syndrome: an Italian translation and a 7-year follow-up. *Journal of Child and Adolescent Psychopharmacology*, 25(10): 810-816.
- Hailemariam, M., Fekadu, A., Selamu, M., Alem, A., Medhin, G., Giorgis, T.W., DeSilva, M. and Breuer, E. 2015. Developing a mental health care plan in a low resource setting: the theory of change approach. *BMC Health Services Research*, 15: 429(11pp).
- Hanlon, C., Medhin, G., Selamu, M., Breuer, E., Worku, B., Hailemariam, M., Lund, C., Prince, M. and Fekadu, A. 2015. Validity of brief screening questionnaires to detect depression in primary care in Ethiopia. *Journal of Affective Disorders*, 186: 32-39.
- Harrison, A., Colvin, C.J., Kuo, C., Swartz, A. and Lurie, M.N. 2015. Sustained high HIV incidence in young women in Southern Africa: social, behavioral, and structural factors and emerging intervention approaches. *Current HIV/AIDS Report*, 12: 207-215.
- Hirschtritt, M.E., Lee, P.C., Pauls, D.L., Dion, Y., Grados, A., Illmann, C., King, A., Sandor, P., McMahon, W., Lyon, J., Cath, D.C., Kurlan, R. and Robertson, M. 2015. Lifetime prevalence, age of risk, and genetic relationships of comorbid psychiatric disorders in Tourette syndrome. *JAMA Psychiatry*, 72(4): 325-333.
- Hoare, J., Fouche, J., Phillips, N., Joska, J., Donald, K.A., Thomas, K. and Stein, D.J. 2015. Clinical associations of white matter damage in cART-treated HIV-positive children in South Africa. *Journal of Neurovirology*, 21: 120-128.
- Hoare, J., Fouche, J., Phillips, N., Joska, J., Paul, R., Donald, K.A., Thomas, K. and Stein, D.J. 2015. White matter micro-structural changes in ART-naive and ART-treated children and adolescents infected with HIV in South Africa. *AIDS*, 29: 1793-1801.
- Honikman, S., Fawcus, S. and Meintjes, I. 2015. Abuse in South African maternity settings is a disgrace: potential solutions to the problem. *SAMJ South African Medical Journal*, 105(4): 284-286.
- Houghton, D.C., Balsis, S., Stein, D.J., Compton, S.N., Twohig, M.P., Saunders, S.M., Franklin, M.E., Neal-Barnett, A. and Woods, D.W. 2015. Examining DSM criteria for trichotillomania in a dimensional framework: implications for DSM-5 and diagnostic practice. *Comprehensive Psychiatry*, 60: 9-16.
- Howells, F.M., Hattingh, C., Syal, S., Breet, E., Stein, D.J. and Lochner, C. 2015. 1H-magnetic resonance spectroscopy in social anxiety disorder. *Progress in Neuro-Psychopharmacology & Biological Psychiatry*, 58: 97-104.
- Hudelson, C. and Cluver, L. 2015. Factors associated with adherence to antiretroviral therapy among adolescents living with HIV/AIDS in low- and middle-income countries: a systematic review. *Aids Care*, 27(7): 805-816.
- Hume, D.J., Howells, F.M., Karpul, D., Rauch, L., Kroff, J. and Lambert, E.V. 2015. Cognitive control over visual food cue saliency is greater in reduced-overweight/obese but not in weight relapsed women: an EEG study. *Eating Behaviors*, 19: 76-80.
- Ipsler, J.C., Brown, G., Bischoff-Grethe, A., Connolly, C.G., Ellis, R.J., Heaton, R.K. and Grant, I. 2015. HIV infection is associated with attenuated frontostriatal intrinsic connectivity: a preliminary study. *Journal*

- of the International Neuropsychological Society, 21: 203-213.
- Ipser, J.C., Wilson, D.A.B., Akindipe, T., Sager, C. and Stein, D.J. 2015. Pharmacotherapy for anxiety and comorbid alcohol use disorders. *Cochrane Database of Systematic Reviews*, 1(1): CD007505(64pp).
- Johnson, J.E., Peabody, M., Wechsberg, W.M., Rosen, R., Fernandes, K. and Zlotnick, C. 2015. Feasibility of an HIV/STI risk-reduction program for incarcerated women who have experienced interpersonal violence. *Journal of Interpersonal Violence*, 30(18): 3244-3266.
- Johnson, J.E., Schonbrun, Y.C., Peabody, M., Shefner, R.T., Fernandes, K., Rosen, R. and Zlotnick, C. 2015. Provider experiences with prison care and aftercare for women with co-occurring mental health and substance use disorders: treatment, resource, and systems integration challenges. *Journal of Behavioral Health Services & Research*, 42(4): 417-436.
- Jordans, M.J.D., Kohrt, B., Luitel, N.P., Komproe, I.H. and Lund, C. 2015. Accuracy of proactive case finding for mental disorders by community informants in Nepal. *British Journal of Psychiatry*, 207(6): 501-506.
- Kengne, A.P., Mason-Jones, A.J., Sliwa, K., Mayosi, B.M., Stein, D.J. and Matzopoulos, R. 2015. Global, regional, and national incidence, prevalence, and years lived with disability for 301 acute and chronic diseases and injuries in 188 countries, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *Lancet*, 386: 743-800.
- Kengne, A.P., Matzopoulos, R., Mason-Jones, A.J. and Sliwa, K. 2015. Global, regional, and national age-sex specific all-cause and cause-specific mortality for 240 causes of death, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *Lancet*, 385: 117-171.
- Kengne, A.P., Matzopoulos, R., Sliwa, K., Mayosi, B.M. and Stein, D.J. 2015. Global, regional, and national comparative risk assessment of 79 behavioural, environmental and occupational, and metabolic risks or clusters of risks in 188 countries, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *Lancet*, 386: 2287-2323.
- Kingswood, J.C. and de Vries, P.J. 2015. Tuberous sclerosis complex. *Paediatrics & Child Health*, 25(10): 467-473.
- Klumpers, F., Morgan, B.E., Terburg, D., Stein, D.J. and van Honk, J. 2015. Impaired acquisition of classically conditioned fear-potentiated startle reflexes in humans with focal bilateral basolateral amygdala damage. *Social Cognitive and Affective Neuroscience*, 10: 1161-1168.
- Leclezio, L. and de Vries, P.J. 2015. Advances in the treatment of tuberous sclerosis complex. *Current Opinion in Psychiatry*, 28: 113-120.
- Leclezio, L., Jansen, A., Whittemore, V.H. and de Vries, P.J. 2015. Pilot validation of the tuberous sclerosis-associated neuropsychiatric disorders (TAND) checklist. *Pediatric Neurology*, 52: 16-24.
- Lewis, C., Thomas, K., Dodge, N.C., Molteno, C.D., Meintjes, E.M., Jacobson, J.L. and Jacobson, S.W. 2015. Verbal learning and memory impairment in children with fetal alcohol spectrum disorders. *Alcoholism-Clinical and Experimental Research*, 39(4): 724-732.
- Li, X., Chi, P., Sherr, L., Cluver, L. and Stanton, B. 2015. Psychological resilience among children affected by parental HIV/AIDS: a conceptual framework. *Health Psychology and Behavioural Medicine*, 3(1): 217-235.
- Liu, F., Guo, W., Fouche, J., Wang, Y., Wang, W., Ding, J., Zeng, L., Qiu, C., Gong, Q., Zhang, W. and Chen, H. 2015. Multivariate classification of social anxiety disorder using whole brain functional connectivity. *Brain Structure & Function*, 220: 101-115.
- Liu, F., Xie, B.X., Wang, Y., Guo, W., Fouche, J., Long, Z.L., Wang, W.W., Chen, H.C., Li, M.L., Duan, X.D., Zhang, J.Z., Qiu, M.Q. and Chen, H. 2015. Characterization of post-traumatic stress disorder using resting-state fmri with a multi-level parametric classification approach. *Brain Topography*, 28: 221-237.
- Long, W., Chiliza, B. and Stein, D.J. 2015. Anger and Afrophobia in South Africa: what is a mental health practitioner to do? *SAMJ South African Medical Journal*, 105(7): 510.
- Luitel, N.P., Jordans, M.J.D., Adhikari, A., Upadhaya, N., Hanlon, C., Lund, C. and Komproe, I.H. 2015. Mental health care in Nepal: current situation and challenges for development of a district mental health care plan. *Conflict and health*, 9(3): 1-11.
- Lund, C., Alem, A., Schneider, M., Hanlon, C., Ahrens, J., Bandawe, C., Bass, H., Bhana, A., Burns, J., Chibanda, D., Cowan, F.M., Davies, T., Dewey, M., Fekadu, A., Freeman, M., Honikman, S., Joska, J., Kagee, A., Mayston, R., Medhin, G., Musisi, S., Myer, L., Ntulo, T., Nyatsanza, M., Ofori-Atta, A., Petersen, I., Phakathi, S., Prince, M., Shibre, T., Stein, D.J., Swartz, I., Thornicroft, G., Tomlinson, M., Wissow, L. and Susser, E. 2015. Generating evidence to narrow the treatment gap for mental disorders in sub-Saharan Africa: rationale, overview and methods of AFFIRM. *Epidemiology and Psychiatric Sciences*, 24: 233-240.
- Makan, A., Fekadu, A., Murhar, V., Luitel, N.P., Kathree, T., Ssebunya, J. and Lund, C. 2015. Stakeholder

- analysis of the Programme for Improving Mental health care (PRIME): baseline findings. *International Journal of Mental Health Systems*, 9: 27(12pp).
- Mall, S., Lund, C., Vilagut, G., Alonso, J., Williams, D.R. and Stein, D.J. 2015. Days out of role due to mental and physical illness in the South African stress and health study. *Social Psychiatry and Psychiatric Epidemiology*, 50: 461-468.
- Mason-Jones, A.J. and Cabieses, B. 2015. Alcohol, binge drinking and associated mental health problems in young urban Chileans. *PLoS One*, 10(4): e0121116(12pp).
- Mathews, C., Eggers, S.M., de Vries, P.J., Mason-Jones, A.J., Townsend, L., Aar, L.E. and de Vries, H. 2015. Reaching the hard to reach: longitudinal investigation of adolescents attendance at an after-school sexual and reproductive health programme in Western Cape, South Africa. *BMC Public Health*, 15: 608(12pp).
- Mayosi, B.M., Stein, D.J., Kengne, A.P. and Sliwa, K. 2015. Global, regional, and national incidence, prevalence, and years lived with disability for 301 acute and chronic diseases and injuries in 188 countries, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *Lancet*, 386(9995): 743-800.
- McKay, D., Sookman, D., Neziroglu, F., Wilhelm, S., Stein, D.J., Kyrios, M., Matthews, K. and Veale, D. 2015. Efficacy of cognitive-behavioral therapy for obsessive-compulsive disorder. *Psychiatry Research*, 225: 236-246.
- McLaughlin, K.A., Koenen, K.C., Friedman, M.J., Ruscio, A.M., Karam, E., Shahly, V., Stein, D.J., Hill, E.D., Petukhova, M., Alonso, J., Andrade, L.H., Angermeyer, M.C., Borges, G.L.G.B., de Girolamo, G., de Graaf, R., Demyttenaere, K., Florescu, S.E., Mladenova, M., Posada-Villa, J., Scott, K.M., Takeshima, T. and Kessler, R.C. 2015. Subthreshold posttraumatic stress disorder in the world health organization world mental health surveys. *Biological Psychiatry*, 77: 375-384.
- Meade, C.S., Towe, S.L., Watt, M.H., Hobkirk, A.L., Skinner, D., Myers, B.J., Kimani, S.M. and Pieterse, D. 2015. HIV testing behaviors and attitudes among community recruited methamphetamine users in a South African township. *AIDS and Behavior*, 19: 186-191.
- Meffert, S.M., McCulloch, C.E., Neylan, T.C., Gandhi, M. and Lund, C. 2015. Increase of perceived frequency of neighborhood domestic violence is associated with increase of women's depression symptoms in a nationally representative longitudinal study in South Africa. *Social Science & Medicine*, 131: 89-97.
- Meinck, F., Cluver, L. and Boyes, M. 2015. Household illness, poverty and physical and emotional child abuse victimisation: findings from South Africa's first prospective cohort study. *BMC Public Health*, 15: 444(13pp).
- Meinck, F., Cluver, L., Boyes, M. and Ndhlovu, L.D. 2015. Risk and protective factors for physical and emotional abuse victimisation amongst vulnerable children in South Africa. *Child Abuse Review*, 24: 182-197.
- Meinck, F., Cluver, L., Boyes, M.E. and Mhlongo, E.L. 2015. Risk and protective factors for physical and sexual abuse of children and adolescents in Africa: a review and implications for practice. *Trauma Violence & Abuse*, 16(1): 81-107.
- Meintjes, I., Field, S., van Heyningen, T. and Honikman, S. 2015. Creating capabilities through maternal mental health interventions: a case study at Hanover Park, Cape Town. *Journal of International Development*, 27: 234-250.
- Meron, D., Hedger, N., Garner, M. and Baldwin, D.S. 2015. Transcranial direct current stimulation (tDCS) in the treatment of depression: systematic review and meta-analysis of efficacy and tolerability. *Neuroscience and Biobehavioral Reviews*, 57: 46-62.
- Minnis, A.M., Doherty, I.A., Kline, T.L., Zule, W.A., Myers, B.J., Carney, T. and Wechsberg, W.M. 2015. Relationship power, communication, and violence among couples: results of a cluster-randomized HIV prevention study in a South African township. *International Journal of Womens Health*, 7: 517-525.
- Mohamed, A.R. and Mkabale, S. 2015. An attachment-focused parent-child intervention for biting behaviour in a child with intellectual disability: A clinical case study. *Journal of Intellectual Disability Research*, 19(3): 251-265.
- Montoya, E.R., van Honk, J., Bos, P. and Terburg, D. 2015. Dissociated neural effects of cortisol depending on threat escapability. *Human Brain Mapping*, 36: 4304-4316.
- Motsohi, T., Isaacs, A., Manga, N., Le Grange, C., Roelofse, M., Milligan, P.D., Hellenberg, D.A. and Sayed, A. 2015. Common mental disorders are not diagnosed commonly in community health centres. *South African Family Practice*, 57(4): 259-260.
- Myers, B.J., Govender, R.A., Koch, R.J., Manderscheid, R., Johnson, K. and Parry, C. 2015. Development and psychometric validation of a novel patient survey to assess perceived quality of substance abuse treatment in South Africa. *Substance Abuse Treatment Prevention and Policy*, 10: 44(15pp).

- Myers, B.J., Jones, H.E., Doherty, I.A., Kline, T.L., Key, M.E., Johnson, K. and Wechsberg, W.M. 2015. Correlates of lifetime trauma exposure among pregnant women from Cape Town, South Africa. *International Journal of Mental Health and Addiction*, 13: 307-321.
- Namisi, F.S., Aar, L.E., Kaaya, S., Kajula, L.J., Kilonzo, G.P., Onya, H., Wubs, A.G. and Mathews, C. 2015. Adolescents communication with parents, other adult family members and teachers on sexuality: effects of school-based interventions in South Africa and Tanzania. *AIDS and Behavior*, 19: 2162-2176.
- Newton, J., Briggs, A.D.M., Murray, C.J.L., Dicker, D., Foreman, K.J., Wang, H., Naghavi, M., Forouzanfar, M.F., Ohon, S.L., Barber, R. and Mason-Jones, A.J. 2015. Changes in health in England, with analysis by English regions and areas of deprivation, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *Lancet*, 386: 2257-2274.
- Olaya, B., Alonso, J., Atwoli, L., Kessler, R.C., Vilagut, G. and Haro, J.M. 2015. Association between traumatic events and post-traumatic stress disorder: results from the ESEMeD-Spain study. *Epidemiology and Psychiatric Sciences*, 24: 172-183.
- Operario, D., Lee, J.H., Kuo, C. and Zaller, N. 2015. Racial and Ethnic disparities in HIV and STIs in the United States national health and nutrition examination survey 1999-2012. *AIDS Patient Care and STDs*, 29(12): 635-638.
- Ori, R., Amos, T., Bergman, H., Soares-Weiser, K., Ipser, J.C. and Stein, D.J. 2015. Augmentation of cognitive and behavioural therapies (CBT) with d-cycloserine for anxiety and related disorders. *Cochrane Database of Systematic Reviews*, 2015(5): CD007803(131pp).
- Pantelic, M., Cluver, L., Boyes, M., Toska, E., Kuo, C. and Moshabela, M. 2015. Medical pluralism predicts non-ART use among parents in need of ART: a community Survey in KwaZulu-Natal, South Africa. *AIDS and Behavior*, 19: 137-144.
- Pantelic, M., Shenderovich, Y., Cluver, L. and Boyes, M. 2015. Predictors of internalised HIV-related stigma: a systematic review of studies in sub-Saharan Africa. *Health Psychology Review*, 9(4): 469-490.
- Pappin, M., Wouters, E., Booyesen, F. and Lund, C. 2015. Public sector antiretroviral treatment programme in South Africa: health care workers' attention to mental health problems. *Aids Care*, 27(4): 458-465.
- Parry, C., Pienaar, D., Ataguba, J.E., Volmink, J., Kredon, T., Jere, M. and Siegfried, N. 2015. Implication of Cochrane Review on restricting or banning alcohol advertising in South Africa. *SAMJ South African Medical Journal*, 105(2): 80-81.
- Pasche, S.C., Kleintjes, S.R., Wilson, D.A.B., Stein, D.J. and Myers, B.J. 2015. Improving addiction care in South Africa: development and challenges to implementing training in addictions care at the University of Cape Town. *International Journal of Mental Health and Addiction*, 13: 322-332.
- Priest, N., Esmail, A., Kline, R., Rao, M., Coghill, Y., Williams, D.R., Norman, F. and Norman, L. 2015. Promoting equality for ethnic minority NHS staff-what works? *The BMJ*, 351: h3297(4pp).
- Rana, A.I., Liu, T., Gillani, F.S., Reece, R., Kojic, E.M., Zlotnick, C. and Wilson, I.B. 2015. Multiple gaps in care common among newly diagnosed HIV patients. *Aids Care*, 27(6): 679-687.
- Reddy, P., Zuma, K., Shisana, O., Jonas, K. and Sewpaul, R. 2015. Prevalence of tobacco use among adults in South Africa: results from the first South African national health and nutrition examination survey. *SAMJ South African Medical Journal*, 105(8): 648-655.
- Reed, E., Myers, B.J., Novak, S., Browne, F.A. and Wechsberg, W.M. 2015. Experiences of violence and association with decreased drug abstinence among women in Cape Town, South Africa. *AIDS and Behavior*, 19: 192-198.
- Rehle, T., Johnson, L.F., Hallett, T., Mahy, M., Kim, A., Odido, H., Onoya, D., Jooste, S., Shisana, O., Puren, A., Parekh, B. and Stover, J. 2015. A comparison of South African national HIV incidence estimates: a critical appraisal of different methods. *PLoS One*, 10(7): e0133255(15pp).
- Rizzo, R., Cath, D.C., Pavone, P., Tijssen, M. and Robertson, M. 2015. Three cases of palatal tics and Gilles de la Tourette syndrome. *Journal of Child Neurology*, 30(9): 1199-1203.
- Robbins, R.N., Mellins, C.A., Leu, C.-S., Rowe, J., Warne, P., Abrams, E.J., Witte, S., Stein, D.J. and Remien, R.H. 2015. Enhancing lay counselor capacity to improve patient outcomes with multimedia technology. *AIDS and Behavior*, 19(Suppl 2): S163-S176.
- Robertson, M. 2015. A personal 35 year perspective on Gilles de la Tourette syndrome: assessment, investigations and management. *Lancet Psychiatry*, 2: 88-104.
- Robertson, M. 2015. A personal 35 year perspective on Gilles de la Tourette syndrome: prevalence, phenomenology, comorbidities, and coexistent psychopathologies. *Lancet Psychiatry*, 2: 68-87.
- Roos, A., Geerts, L., Koen, N., Faure, S.C., Vythilingum, B. and Stein, D.J. 2015. Psychosocial predictors of fetoplacental blood flow during pregnancy. *Comprehensive Psychiatry*, 57: 125-131.

- Roos, A., Grant, J.E., Fouche, J., Stein, D.J. and Lochner, C. 2015. A comparison of brain volume and cortical thickness in excoriation (skin picking) disorder and trichotillomania (hair pulling disorder) in women. *Behavioural Brain Research*, 279: 255-258.
- Roos, A., Kwiatkowski, M., Fouche, J., Narr, K.L., Thomas, K., Stein, D.J. and Donald, K.A. 2015. White matter integrity and cognitive performance in children with prenatal methamphetamine exposure. *Behavioural Brain Research*, 279: 62-67.
- Scheffle, E., Visagie, S. and Schneider, M. 2015. The impact of health service variables on healthcare access in a low resourced urban setting in the Western Cape, South Africa. *African Journal of Primary Health Care & Family Medicine*, 7(1): 820(11pp).
- Schneider, M., Baron, E.C., Davies, T., Bass, H. and Lund, C. 2015. Making assessment locally relevant: measuring functioning for maternal depression in Khayelitsha, Cape Town. *Social Psychiatry and Psychiatric Epidemiology*, 50: 797-806.
- Semrau, M., Evans-Lacko, S., Alem, A., Ayuso-Mateos, J.L., Chisholm, D., Gureje, O., Hanlon, C., Jordans, M.J.D., Kigozi, F., Lempp, H., Lund, C., Petersen, I., Shidhaye, R. and Thornicroft, G. 2015. Strengthening mental health systems in low- and middle-income countries: the Emerald programme. *BMC Medicine*, 13: 79(9pp).
- Sharer, M., Cluver, L. and Shields, J. 2015. Mental health of youth orphaned due to AIDS in South Africa: biological and supportive links to caregivers. *Vulnerable children and youth studies*, 10(2): 141-152.
- Sherr, L., Cluver, L., Tomlinson, M., Coovadia, H., Bohmer, L., Huni, N., RoCHAT, T.J., Miller, J., Kean, S., Manyra, W., Stein, N., Hart, D. and Lorpanda, K. 2015. Defeating AIDS but missing children. *Lancet*, 386: 1035-1035.
- Shidhaye, R., Lund, C. and Chisholm, D. 2015. Closing the treatment gap for mental, neurological and substance use disorders by strengthening existing health care platforms: strategies for delivery and integration of evidence-based interventions. *International Journal of Mental Health Systems*, 9: 40(11pp).
- Shisana, O., Zungu, N., Evans, M., Risher, K., Rehle, T. and Celentano, D. 2015. The case for expanding the definition of key populations to include high-risk groups in the general population to improve targeted HIV prevention efforts. *SAMJ South African Medical Journal*, 105(8): 664-669.
- Siegfried, N., Beanland, R., Ford, N. and Mayer, K.H. 2015. Formulating the future research agenda for postexposure prophylaxis for HIV: methodological challenges and potential approaches. *Clinical Infectious Diseases*, 60(Suppl 3): S205-S211.
- Sinclair, H., Pasche, S.C., Pretorius, A. and Stein, D.J. 2015. Clinical profile and psychiatric comorbidity of treatment-seeking individuals with pathological gambling in South-Africa. *Journal of Gambling Studies*, 31: 1227-1243.
- Skeen, S., Tomlinson, M., Ward, C.L., Cluver, L. and Lachman, J.M. 2015. Early intervention: a foundation for lifelong violence prevention. *South African Crime Quarterly*, 51: 5-7.
- Sliwa, K., Matzopoulos, R., Kengne, A.P., Mayosi, B.M. and Stein, D.J. 2015. Global, regional, and national disability-adjusted life years (DALYs) for 306 diseases and injuries and healthy life expectancy (HALE) for 188 countries, 1990-2013: quantifying the epidemiological transition. *Lancet*, 386: 2145-2191.
- Sorsdahl, K., Myers, B.J., Ward, C.L., Matzopoulos, R., Mtukushe, B., Nicol, A., Cuijpers, P. and Stein, D.J. 2015. Adapting a blended motivational interviewing and problem-solving intervention to address risky substance use amongst South Africans. *Psychiatry Research*, 25(4): 435-444.
- Sorsdahl, K., Petersen Williams, P., Everett-Murphy, K., Vythilingum, B., de Villiers, P., Myers, B.J. and Stein, D.J. 2015. Feasibility and preliminary responses to a screening and brief intervention program for maternal mental disorders within the context of primary care. *Community Mental Health Journal*, 51: 962-969.
- Sorsdahl, K., Stein, D.J., Corrigan, J., Cuijpers, P., Smits, N., Naledi, T. and Myers, B.J. 2015. The efficacy of a blended motivational interviewing and problem solving therapy intervention to reduce substance use among patients presenting for emergency services in South Africa: a randomized controlled trial. *Substance Abuse Treatment Prevention and Policy*, 10: 46(10pp).
- Sorsdahl, K., Stein, D.J., Williams, D.R., Anthony, J. and Myers, B.J. 2015. Childhood punishment and risk for alcohol use disorders: data from South Africa. *International Journal of Mental Health and Addiction*, 13: 103-114.
- Spedding, M., Stein, D.J. and Sorsdahl, K. 2015. Task-shifting psychosocial interventions in public mental health: a review of the evidence in the South African context. *South African Health Review*, 4(6): 73-87.
- Stein, D.J. 2015. Academic-industry partnerships in alcohol and gambling: a continuum of benefits and harms. *Israel Journal of Psychiatry and Related Sciences*, 52(2): 81-84.
- Stein, D.J. 2015. Antidepressant-placebo differences: is the glass half full or half empty? *World Psychiatry*, 14(3): 257-258.



- Stein, D.J. 2015. Etifoxine versus Alprazolam for the treatment of adjustment disorder with anxiety: a randomized controlled trial. *Advances in Therapy*, 32: 57-68.
- Stein, D.J. 2015. Social anxiety disorder and the psychobiology of self-consciousness. *Frontiers in Human Neuroscience*, 9: 489(4pp).
- Stein, D.J. and Giardano, J. 2015. Global mental health and neuroethics. *BMC Medicine*, 13: 44(6pp).
- Stein, D.J. and Illes, J. 2015. Beyond scientism and skepticism: an integrative approach to global mental health. *Frontiers in Psychiatry*, 6(166): 1-4.
- Stein, D.J. and Nesse, R.M. 2015. Normal and abnormal anxiety in the age of DSM-5 and ICD-11. *Emotion Review*, 7(3): 223-229.
- Stein, D.J., He, Y., Phillips, A., Sahakian, B., Williams, J. and Patel, V. 2015. Global mental health and neuroscience: different synergies might be needed. *Lancet*, 2: 489-491.
- Stein, D.J., He, Y., Phillips, A., Sahakian, B., Williams, J. and Patel, V. 2015. Global mental health and neuroscience: Potential synergies. *Lancet Psychiatry*, 2: 178-185.
- Stein, D.J., Koen, N., Donald, K.A.M., Adnams, C.M., Koopowitz, S., Lund, C., Marais, A., Myers, B.J., Roos, A., Sorsdahl, K., Stern, M., Tomlinson, M., Van der Westhuizen, C., Vythilingum, B., Myer, L., Barnett, W., Brittain, K. and Zar, H.J. 2015. Investigating the psychosocial determinants of child health in Africa: the Drakenstein Child Health study. *Journal of Neuroscience Methods*, 252: 27-35.
- Stolk, S., Sevar, K., Tran, N., Mancuso, S.G., Chopra, P. and Castle, D. 2015. A comparative study of the economic and social functioning of Vietnamese - Australians with low English proficiency living with psychotic illness. *International Journal of Social Psychiatry*, 61(4): 319-329.
- Suliman, S., Seedat, S., Pingo, J., Sutherland, T., Zohar, J. and Stein, D.J. 2015. Escitalopram in the prevention of posttraumatic stress disorder: a pilot randomized controlled trial. *BMC Psychiatry*, 15: 24(8pp).
- Syal, S., Ipser, J.C., Terburg, D., Solms, M., Panksepp, J., Malcolm-Smith, S.M., Bos, P., Montoya, E.R., Stein, D.J. and van Honk, J. 2015. Improved memory for reward cues following acute buprenorphine administration in humans. *Psychoneuroendocrinology*, 53: 10-15.
- Taylor, P., Meintjes, E.M., van der Kouwe, A.J., Molteni, C.D., Chen, G., Wintermark, P., Alhamud, A., Jacobson, J.L. and Jacobson, S.W. 2015. A DTI-based tractography study of effects on brain structure associated with prenatal alcohol exposure in newborns. *Human Brain Mapping*, 36(1): 170-186.
- Temmingh, H.S. and Stein, D.J. 2015. Anxiety in patients with Schizophrenia: epidemiology and management. *CNS Drugs*, 29: 819-832.
- Theron, G., Peter, J., Zijenah, L., Chanda, D., Mangu, C.D., Clowes, P., Rachow, A., Lesosky, M., Hoelscher, M., Pym, A., Mwaba, P., Mason, P.R., Naidoo, P., Pooran, A., Sohn, H., Pai, M., Stein, D.J. and Dheda, K. 2015. Psychological distress and its relationship with non-adherence to TB treatment: a multicentre study. *BMC Infectious Diseases*, 15: 253(12pp).
- Thomas, E., du Plessis, S., Chiliza, B., Lochner, C. and Stein, D.J. 2015. Olfactory reference disorder: diagnosis, epidemiology and management. *CNS Drugs*, 29: 999-1007.
- Tindana, P., de Vries, J., Campbell, M.M., Littler, K., Seeley, J., Marshall, P., Troyer, J., Ogundipe, M., Alibu, V.P., Yakubu, A. and Parker, M. 2015. Community engagement strategies for genomic studies in Africa: a review of the literature. *BMC Medical Ethics*, 16: 24(12pp).
- Toska, E., Cluver, L., Boyes, M.E., Pantelic, M. and Kuo, C. 2015. From 'sugar daddies' to 'sugar babies': exploring a pathway among age-disparate sexual relationships, condom use and adolescent pregnancy in South Africa. *Sexual Health*, 12: 59-66.
- Toska, E., Cluver, L., Hodes, R. and Kidia, K. 2015. Sex and secrecy: how HIV-status disclosure affects safe sex among HIV-positive adolescents. *Aids Care*, 27(S1): 47-58.
- Vally, Z. and Maggott, C.D. 2015. Evaluating the outcome of cultural adaptation of cognitive-behavioural therapy for adult depression: a meta-analysis of treatment studies in developing countries. *International Journal for the Advancement of Counselling*, 37: 293-304.
- Van Breda, K., Collins, M., Stein, D.J. and Rauch, H.G.L. 2015. The COMT val158 met polymorphism in ultra endurance athletes. *Physiology & Behavior*, 151: 279-283.
- Van den Stock, J., Hortensius, R., Sinke, C., Goebel, R. and De Gelder, B. 2015. Personality traits predict brain activation and connectivity when witnessing a violent conflict. *Scientific Reports*, 5: 13779(9pp).
- van Honk, J., Bos, P., Terburg, D., Heany, S. and Stein, D.J. 2015. Neuroendocrine models of social anxiety disorder. *Dialogues in Clinical Neuroscience*, 17(3): 287-293.
- Walker, K.G., de Vries, P.J., Stein, D.J. and Wilmschurst, J. 2015. Sydenham Chorea and PANDAS in South Africa: review of evidence and recommendations for management in resource-poor countries. *Journal of Child Neurology*, 30(7): 850-859.

Wechsberg, W.M., Deren, S., Myers, B.J., Kirtadze, I., Zule, W.A., Howard, B. and El-Bassel, N. 2015. Gender-Specific HIV prevention interventions for women who use alcohol and other drugs: the evolution of the science and future directions. *AIDS-Journal of Acquired Immune Deficiency Syndromes*, 69(Suppl 2): S128-S139.

Wechsberg, W.M., El-Bassel, N., Carney, T., Browne, F.A., Myers, B.J. and Zule, W.A. 2015. Adapting an evidence-based HIV behavioral intervention for South African couples. *Substance Abuse Treatment Prevention and Policy*, 10: 6(10pp).

Williams, D.R. 2015. Minority men's health. *Ethnicity & Disease*, 25(3): 237-239.

Williams, P., Petersen, Z., Sorsdahl, K., Mathews, C., Everett-Murphy, K. and Parry, C. 2015. Screening and brief interventions for alcohol and other drug use among pregnant women attending midwife obstetric units in Cape Town, South Africa: a qualitative study of the views of health care professionals. *Journal of Midwifery & Womens Health*, 60: 401-409.

Wingo, A.P., Almlil, L., Stevens, J., Klengel, T., Uddin, M., Li, Y., Bustamante, A.C., Lori, A., Koen, N., Stein, D.J., Smith, A.K. and Aiello, A.E. 2015. DICER1 and microRNA regulation in post-traumatic stress disorder with comorbid depression. *Nature Communications*, 6: 10106(12pp).

Witten, J., Thomas, K., Westgarth-Taylor, J. and Joska, J. 2015. Executive dyscontrol of learning and memory: findings from a clade C HIV-positive South African sample. *Clinical Neuropsychologist*, 29(7): 956-984.

Wong, H.T., McCartney, D.L., Lewis, J.C., Sampson, J.R., Howe, C.J. and de Vries, P.J. 2015. Intellectual ability in tuberous sclerosis complex correlates with predicted effects of mutations on TSC1 and TSC2 proteins. *Journal of Medical Genetics*, 52: 815-822.

Woods, K., Meintjes, E.M., Molteno, C.D., Jacobson, S.W. and Jacobson, J.L. 2015. Parietal dysfunction during number processing in children with fetal alcohol spectrum disorders. *NeuroImage-Clinical*, 8: 594-605.

Wubs, A.G., Aar, L.E., Kaaya, S., Onya, H. and Mathews, C. 2015. Social cognition variables and victimization as predictors of sexual debut among adolescents in South Africa and Tanzania: a multi-group SEM analysis. *AIDS and Behavior*, 19: 2141-2151.

Yu, D., Matthews, C.A., Scharf, J.M., Neale, B.M., Davis, L.K., Gamazon, E., Derks, E.M., Evans, P.D., Edlund, C.K., Crane, J. and Stein, D.J. 2015. Cross-disorder genome-wide analyses suggest a complex genetic relationship between Tourette syndrome and obsessive-compulsive disorder. *American Journal of Psychiatry*, 172(1): 82-93.

Zar, H.J., Barnett, W., Myer, L., Stein, D.J. and Nicol, M.P. 2015. Investigating the early-life determinants of illness in Africa: the Drakenstein Child Health Study. *Thorax*, 70: 592-594.

# Department of Public Health and Family Medicine

## Research Report 2015

**Head of Department and Director:  
Professor Mohamed Jeebhay**

## Departmental Profile

The School of Public Health and Family Medicine is a strong multidisciplinary department in the Faculty of Health Sciences at the University of Cape Town. Our teaching, research and service extend to a wide range of settings and content areas consistent with the evolving disciplines of public health and family medicine.

The School is organised into 8 disciplinary teaching and training divisions that include Public Health Medicine, Family Medicine, Occupational Medicine, Epidemiology and Biostatistics, Health Economics, Health Policy and Systems, Social and Behavioural Sciences, and Environmental Health. Three of these divisions, Public Health Medicine, Occupational Medicine and Family Medicine have a clinical service responsibility through joint appointments with Western Cape Government Department of Health viz. Directorate of Health Impact Assessment, Groote Schuur Hospital Occupational Medicine Clinic, Chief Directorate Metro District Health Services, respectively. The School also houses 4 URC accredited research centres / units: Centre for Infectious Disease Epidemiology & Research (CIDER), Centre for Environmental and Occupational Health Research (COEHR), Health Economics Unit (HEU) and the Women's Health Research Unit (WHRU).

In addition to hosting two SARCHI Chairs in 'Health and Wealth' (Prof Di McIntyre) and 'Global Environmental Health' (Assoc Prof Aqiel Dalvie), the School has 14 NRF-rated researchers, comprising 6 B-rated (Internationally Acclaimed Researchers): Prof Lucy Gilson, Prof Rodney Ehrlich, Prof Mohamed Jeebhay, Prof Leslie London, Prof Di McIntyre and Prof Jonny Myers; 4 C-rated (Established Researchers): A/Prof Diane Cooper, A/Prof Aqiel Dalvie, A/Prof Mary-Ann Davies, Dr Richard Matzopoulos; and 4 Y-rated

(Promising Young Researchers): A/Prof Chris Colvin, Dr John Ataguba, Dr Leigh Johnson and Dr Tolu Oni.

Research outputs in 2015 included 268 peer-reviewed journal publications and book chapters (a 20% increase from 2014), ranking 3<sup>rd</sup> in the Faculty, contributing 14.4% of the Faculty output. Total research grant and contract income was R63,815,649 in 2015, representing a 6.9% decrease from 2014. Furthermore, in addition to publications, academic staff participated in a range of provincial, national and international public health and policy initiatives resulting in a number of technical and policy papers, as well as health promotion materials. These contributions are integral to the department's service mission, reflecting the School's strong social responsiveness profile in applying research and scholarly activity as part of our advocacy to promote population health ([http://www.publichealth.uct.ac.za/phfm\\_research-centres-units](http://www.publichealth.uct.ac.za/phfm_research-centres-units)).

The School's research mission is reflected in the wide range of research activities and the associated research outputs are notable for their multidisciplinary perspective. In infectious diseases and women's health, publications cover childhood and adult tuberculosis prevention, diagnosis and treatment; HIV epidemiology, transmission and treatment (including treatment outcomes, adherence and mortality); adolescent risk-taking behaviour and educational interventions; prevention of mother-to-child transmission of HIV infection; contraceptive services and women's reproductive health more broadly; economic analyses of tuberculosis and HIV services; HPV vaccination and cervical cancer prevention and health systems aspects of care related to TB and HIV. The integration of human rights and health system strengthening considerations into public health policy and health systems practice receives attention in a number of publications. The School continues its role as a national leader in occupational and environmental health research with investigations into occupational allergy and asthma, pesticides, endocrine disrupting chemicals, hazardous metals and lung disease due to mineral dust. Finally, the question of health care financing and equity of resource allocation in health continues to occupy researchers in health economics. The School is also making a significant contribution to the development of health interventions (e.g. risk communication materials, translational science) based on research findings.

## Departmental Statistics

### Permanent and Long-Term Contract Staff

Professors	5
Associate Professors	9
Senior Lecturers	20
Lecturers	13
Facilitators	43
Research Staff	29
Technical Support Staff	2
Administrative and Clerical Staff	16
<b>Total</b>	<b>137</b>

### Emeritus and Honorary Staff

Emeritus Professors	1
Emeritus Associate Professor	1
Honorary Professors	10
Honorary Associate Professors	5
Honorary Senior Lecturers	19
Honorary Lecturers	11
Visiting Lecturer	9
<b>Total</b>	<b>56</b>

### Students

Doctoral	45
Masters	268
PG Diploma	67
Undergraduate	1228
<b>Total</b>	<b>1608</b>

## URC RESEARCH CENTRES / UNITS

### Centre for Infectious Disease Epidemiology and Research (CIDER)

Established initially as a research unit in 2000, the Centre for Infectious Disease Epidemiology and Research has undertaken multidisciplinary research on priority infectious diseases in Southern Africa, in order to improve disease prevention and management. The Centre has strong links to service providers and policy makers at provincial, national and international levels, and a long track record of conducting operations research around service delivery challenges. It has a large staff complement of more than 80 academic, technical and field-based staff that includes epidemiologists, biostatisticians, mathematical modellers, social scientists and public health medicine specialists. The Centre operates major research hubs linked to primary care services in the Klipfontein-Mitchell's Plain sub-district in Cape Town, and a data centre operated in conjunction with the Provincial Government of the Western Cape.

The current objectives of the Centre are to be a major centre of infectious disease epidemiology and related research in Southern Africa and internationally; to conduct public health research integrating laboratory, clinical, epidemiological, social science and health systems research into infectious diseases; to maintain strong links with health services at all levels, and to assist policy makers, programme and services managers with the implementation of the results of research; to be a centre of expertise in the surveillance and monitoring of infectious diseases and infectious disease programmes and services, and in the conduct of robust observational research based on routine data sources; and to provide postgraduate level teaching and supervision in epidemiology.

### Research Fields and Staff

#### Permanent Staff

##### PROFESSOR LANDON MYER

Director: Centre for Infectious Disease Epidemiology and Research; HIV prevention and treatment; maternal and child health; women's health

**ASSOCIATE PROFESSOR ANDREW BOULLE**

Cohort studies; antiretroviral therapy; health information systems

**ASSOCIATE PROFESSOR DAVID COETZEE**

HIV/TB; Health care services; disease surveillance

**ASSOCIATE PROFESSOR CHRISTOPHER COLVIN**

Social aspects of HIV; community participation in health; maternal and child health

**ASSOCIATE PROFESSOR MARY-ANN DAVIES**

Deputy Director: Centre for Infectious Disease Epidemiology and Research; cohort studies; child health; paediatric HIV

**DR MEG OSLER**

Senior Research Officer; Electronic medical records systems; public health information systems

**Research Staff****DR EMMA KALK**

Senior Clinical Research Officer; Paediatric HIV

**DR JASANTHA ODAYAR**

Senior Clinical Research Officer; Health services for antiretroviral therapy; HIV/TB treatment

**MR ANNIBALE COIS**

Senior Research Officer; Chronic disease epidemiology; hypertension; latent variable models

**DR MICHAEL SCHOMAKER**

Senior Research Officer; Cohort analyses; imputation; causal modelling

**DR MORNA CORNELL**

Research Officer; Cohort analyses

**DR LEIGH JOHNSON**

Research Officer; Demographic & epidemiological modelling

**MS GEMMA PATTEN**

Research Officer; Cohort analyses

**MS MEAGAN BOSLAND**

Training Coordinator; Strategic Information

**MS TAMSIN PHILLIPS**

Study Coordinator; Maternal and Child Health

**MS THOKOZILE MALABA**

Study Coordinator; Maternal and Child Health

**MR ROBIN BURLEY**

Software Developer; Strategic Information

**MS DOLPHINA COGILL**

Data Manager; Cohort analyses

**DR RENEE DE WAAL**

Research Officer; Cohort analyses

**MS ALEXA HEEKES**

Data Manager; Cohort analyses

**MS CLAUDINE HENNESSEY**

Health Systems Support; Strategic Information

**MS KATHERINE HILDEBRAND**

Health Systems Support; Strategic Information

**MS NICKY MAXWELL**

Data Manager; Cohort analyses

**MR JONATHAN EUVARD**

Software Developer; Strategic Information

**MR THEMBA MUTEMARINGA**

Data Manager; Cohort analyses

**MS AGNES RONAN**

Project Manager; Maternal & Child Health

**MR POLITE NDURU**

Data Manager; Maternal & Child Health

**DR KATHRYN STINSON**

Epidemiologist; Cohort Analyses

**MS NICKY TIFFIN**

Epidemiologist; Cohort Analyses

**DR PRISCILLA TSONDAI**

Research Assistant; Cohort Analyses

**MS AMY BUSTAMAM**

Study Coordinator; Maternal and Child Health

**MS NONTOKOZO LANGWENYA**

Data Manager; Maternal and Child Health

**MS RANGARIRI MATIMA**

Research Assistant; Cohort analyses

**MS JOLLY-ANN MAULIT**

Research Assistant; Cohort analyses

**MS KELLY NGUYEN**

Study Coordinator; Maternal and Child Health

**MR ALEX PEREZ**

Research Assistant; Maternal and Child Health

**DR ANDILE NOFEMELA**

Technical Support; ARV Adherence Clubs

**MS KIRSTY BRITTAIN**

Data Analyst; Maternal and Child Health

**MS VICTORIA IYUN**

Study Coordinator; Maternal and Child Health

**MS SEUN OLATUNBOSUN**

Data Quality Officer; Maternal and Child Health

**MS CHRISTA OOSTHUIZEN**

Data Coordinator; Cohort analyses

**MS EMILEE SMITH**

Data Analyst; Maternal and Child Health

## Honorary Staff

### Honorary Research Associates

Dr Gilles van Cutsem  
Dr Lynne Wilkinson

### Honorary Senior Lecturers

Dr Nathan Ford  
Dr David Pienaar

### Visiting Professor

Professor Matthias Egger

### Postdoctoral Fellow

#### **DR AMY SLOGROVE**

Paediatric & adolescent HIV; HIV exposed/  
uninfected infants

## **CENTRE FOR ENVIRONMENTAL AND OCCUPATIONAL HEALTH RESEARCH (CEOHR)**

The Centre for Environmental and Occupational Health Research (CEOHR) has been a university accredited research centre since 1994. Between 2001 and 2005 it was accorded MRC research unit status. It was a World Health Organisation (WHO) Collaborating Centre for Occupational Health between 2005-2014. The CEOHR has for some years concentrated the most substantial concentration of skills in occupational and environmental epidemiology research in the country. The major objectives of the Centre are firstly, to conduct multidisciplinary research, teaching and service provision of high priority in Southern Africa, integrating laboratory, clinical, epidemiological and policy skills. Another key objective is to explore and develop means of maintaining the health of workers and environmentally exposed communities. A third objective is to conduct policy research into issues ranging from toxic or injurious exposures through to health surveillance. Fostering inter-institutional research, teaching and service (including outreach) collaboration and capacity development constitutes another major objective. Finally, another aim is to foster local and global networks for occupational and environmental health promotion through collaboration with United Nations and other agencies.

## **Research Fields and Staff**

### **Permanent Staff**

#### **ASSOCIATE PROFESSOR AQIEL DALVIE**

Director: Centre for Environmental and Occupational Health Research and SARCHI chair in global environmental health; Endocrine disruption, pesticides, air pollution, water pollution, climate change, asthma

#### **ASSOCIATE PROFESSOR HANNA-ANDREA ROTHER**

Deputy Director: Centre for Environmental and Occupational Health Research; Environmental determinants of health; chemicals/pesticides; climate change; risk management – exposures, perceptions, communication, reduction/mitigation; developing & evaluating interventions, policy analysis; environmental justice; innovative capacity building and engage learning methods

### **PROFESSOR RODNEY EHRLICH**

Occupational Medicine; Occupational lung disease in mining; tuberculosis in health care workers; worker's compensation; social epidemiology

### **PROFESSOR MOHAMED JEEBHAY**

Occupational allergens and asthma – risk factors and preventive approaches for work-related allergy and asthma. Occupational health services development, occupational health and safety law and worker's compensation in South Africa

### **PROF LESLIE LONDON**

Occupational neurotoxicity; pesticide hazards; fracking; vulnerable working populations; HIV at the workplace; ethics and human rights in occupational and environmental health; environmental justice

### **Research Staff**

#### **DR ZELDA HOLTMAN**

Research Officer; Neurobehavioural effects of pesticide exposure; MRI scans and pesticide exposure; Suicide attempts and pesticide exposure

#### **DR ROSLYNN BAATJIES**

Research Co-ordinator; Occupational allergens and asthma - risk factors and preventive approaches for work-related allergy and asthma

#### **MS SHARON FERGUSON**

Research Administrator

### **Emeritus Staff**

Emeritus Professor Jonny Myers

## **HEALTH ECONOMICS UNIT (HEU)**

The Health Economics Unit (HEU) was established in 1990 and is an URC-accredited research unit which conducts high quality research in health economics and health systems. Our research focuses on supporting current efforts to transform the health system, both at the national policy level (particularly in terms of health care financing reform), and at the district and service delivery level. There is a strong emphasis on equity in our research, particularly to identify ways of promoting health system equity. Another area to which we contribute on an on-going basis is the evaluation of cost-effectiveness of alternative diagnostic and treatment interventions for diseases of major public health concern, including TB, HIV, malaria and cervical cancer. A more recent area of work, which falls directly under the Chair in Health and Wealth, is exploring the social determinants of health within the South African context.

## **Research Fields and Staff**

### **Permanent Staff**

#### **ASSOCIATE PROFESSOR EDINA SINANOVIC**

Director: Health Economics Unit; Economic Evaluation; Social Determinants of Health

#### **PROFESSOR DIANE MCINTYRE**

SARCHI chair in Health and Wealth; Universal Health Coverage and Health Financing; Social Determinants of Health

#### **ASSOCIATE PROFESSOR SUSAN CLEARY**

Governance, Social Determinants of Health, Economic Evaluation

### **Senior Lecturers**

#### **DR OLUFUNKE ALABA**

Universal Health Coverage and Health Financing; Social Determinants of Health

#### **DR JOHN ATAGUBA**

Universal Health Coverage and Health Financing; Social Determinants of Health

#### **DR AYAKO HONDA**

Governance; Universal Health Coverage and Health Financing

## Lecturer

### MS VELOSHNEE GOVENDER

Governance; Universal Health Coverage and Health Financing; Social Determinants of Health

## Research Staff

### MS MARSHA ORGILL

Research Officer; Governance; Universal Health Coverage and Health Financing

### MS VANESSA DARIES

Fieldwork Manager

### MS LATIEFA ADAMS

Research Administrator

## Research Contract Staff

### MS NICOLA FOSTER

Junior Research Fellow; Economic Evaluation; Social Determinants of Health

### MS LUCY CUNNAMA

Junior Research Fellow; Economic Evaluation

## Postdoctoral Fellow

### DR FILIP MEHEUS

Universal Health Coverage and Health Financing; Economic Evaluation

## WOMEN'S HEALTH RESEARCH UNIT (WHRU)

The Women's Health Research Unit (WHRU) was established in 1996 and enjoys local, national and international research standing especially in the areas of sexual and reproductive health and rights and gender issues. The Unit is involved in research, teaching, technical health service support, and advocacy in the area of women's health. It is made up of a multidisciplinary team with expertise in public health, epidemiology, sociology and anthropology. The Unit's focus on women's health and on gender and health is aligned with local and global challenges in addressing the health needs of women.

## Research Fields and Staff

### Permanent Staff

#### ASSOCIATE PROFESSOR JANE HARRIES

Director: Women's Health Research Unit; Sexual and Reproductive Health and rights, family planning and contraception socio-behavioural research

#### ASSOCIATE PROFESSOR JENNIFER MOODLEY

Director Cancer Research Initiative & Deputy Dean for Research, Faculty of Health Sciences

### Research Staff

#### MS DEBORAH CONSTANT

Researcher; Sexual and Reproductive Health and rights, family planning and contraception, M Health

#### MS MARION BLOCH

Research Administrator

### Emeritus and Honorary Staff

#### PROFESSOR DIANE COOPER

Honorary Professor

#### ASSOCIATE PROFESSOR CATHERINE MATHEWS

Honorary Associate Professor

#### ASSOCIATE PROFESSOR MARGARET HOFFMAN

Emeritus Associate Professor

#### DR CHELSEA MORRONI

Honorary Senior Lecturer



## Divisions

### Family Medicine

The Division of Family Medicine has its major research focus in operational matters relating to the clinical platform in the Metro District Health services in the Western Cape, under- and postgraduate medical education and Palliative Medicine. The Division has forged close linkages with the Health Impact Assessment Unit in the Western Cape Department of Health, with the Northern Tygerberg Sub-structure and other health facilities on the clinical teaching platform as well as with Kings College London where a close relationship exists in Palliative Medicine. We have recently established a working relationship with the Department of Family Medicine at the University of Minnesota in the USA.

## Research Fields and Staff

### Permanent Staff

#### **ASSOCIATE PROFESSOR DEREK HELLENBERG**

Head: Division of Family Medicine; Operational research on clinical platform; Languages in the medical consultation for students and staff; Male Medical Circumcision

#### **MS GALIEMA PARKER**

Administrative Assistant

### Senior Lecturers

#### **DR GRAHAM BRESICK**

Foundations & principles of primary care/family medicine; Behaviour change counselling/motivational interviewing; Primary care systems research/Primary Care Assessment Tool; Building primary care

#### **DR ANGELA DE SA**

General Clinical Medicine; Triage at primary care level; Chronic disease care

#### **DR ELMA DE VRIES**

Chronic disease management, Audit to improve chronic disease care, Access to health care for marginalized populations, Transgender Health

#### **DR ABDUL ISAACS**

Chronic Diseases especially Diabetes Mellitus and obesity; Evidence-based practice and Lean management

#### **DR LIESL MORALES-PEREZ**

Health education; Improving communication and personal skills of students; Improving e-learning resources for students

#### **DR TSEPO MOTSOHI**

General Clinical Medicine; Triage in Community Health Centres; Community Psychiatry

#### **DR MOSEDI NAMANE**

Health systems research at primary level; clinical engagement with Rheumatology by primary-care workers in the community

#### **DR TASLEEM RAS**

Postgraduate health education in family medicine, doctor-patient relationships

#### **DR BEVERLEY SCHWEITZER**

Prevention and management of foot ulcers in patients with Diabetes, prevention of illness and promotion of health, patient-centred care, postgraduate training in family medicine

#### **DR LIZ GWYTHYR (PART-TIME)**

Convenor: Palliative Medicine Programmes

#### **DR ALAN BARNARD (PART-TIME)**

Role of the family doctor in palliative medicine; evaluation of palliative care learning; palliative care in intensive care; health sciences education

#### **DR RENE KRAUSE (PART-TIME)**

Convenor: Postgraduate Diploma in Palliative Medicine, ensuring access to palliative at all levels of care

### Lecturers

#### **DR NAZLIE BECKETT**

Medical Education

#### **MS LINDA GANCA**

Palliative medicine

#### **DR NOOR PARKER**

Undergraduate medical education

#### **DR FARZANAH BEGG (PART-TIME)**

Undergraduate medical education; substance abuse

#### **DR MICHELLE MEIRING (PART-TIME)**

#### **DR BRUCE CAMERON (PART-TIME)**

### Emeritus and Honorary Staff

Associate Professor Abdul Barday  
Honorary Adjunct Associate Professor

### Honorary Professors

Professor Richard Harding  
Professor William Pick

### Honorary Lecturers

Dr Steven Craven  
Dr Jalaluddin Dhansay  
Dr Bernard Grevler  
Dr George Petros

## PUBLIC HEALTH MEDICINE

The practice of Public Health Medicine focuses on the delivery of population-oriented services aimed at promoting the health of communities. The Division runs training for undergraduates in medicine and rehabilitation sciences, as well as a postgraduate specialisation in public health medicine, and conducts research in population-oriented public health contexts both in communities and in the health services.

### Research Fields and Staff

#### Permanent Staff

##### PROFESSOR LESLIE LONDON

Head: Division of Public Health Medicine; Health and Human Rights; Alcohol Policy; Drug-resistant TB; Public health policy; Public Health Ethics

##### ASSOCIATE PROFESSOR ANDREW BOULLE

Infectious disease epidemiology; monitoring and evaluation

##### ASSOCIATE PROFESSOR DAVID COETZEE

Infectious disease epidemiology and related health systems/operations research

##### MR KEITH FLANDORP

Undergraduate Administrative Officer

##### MS FARANAAZ BENNETT

Postgraduate Administrative Assistant

##### MS ABIGAIL PARENZEE

4<sup>th</sup> Year Undergraduate Administrative Assistant

#### Senior Lecturers

##### DR ISHAAQ DATAY

##### MR JAMES IRLAM

Climate Change and Health; Sustainable Transport; Evidence-based practice

##### MS LORNA OLCKERS

Professionalism; assessment in undergraduate training in health sciences

##### DR TOLULLAH ONI

Undergraduate Teaching Portfolio Head; urbanisation and health; intersection between communicable and non-communicable diseases

##### DR VIRGINIA ZWEIGENTHAL

Public Health Medicine specialist: Public Health education, Public Health practice; Health systems

#### Lecturer

##### DR FERROZA AMIEN

Oral Health, Interprofessionalism, HIV/TB services

#### Research Staff

##### DR THERESE BOULLE

Senior Research Officer

##### MS HANNE HARICHARAN

Research Officer

##### DR MARION HEAP

Research Officer

##### DR NESBERT ZINYAKATIRA

Medical Natural Scientist; Demography and biostatistics

#### Honorary Staff

##### Honorary Professors

Professor William Pick

Professor Thomas Rehle

##### Honorary Associate Professors

Associate Professor Lesley Bourne

Associate Professor Neo Morojele

##### Honorary Senior Lecturers

Dr Eric Goemaere

Dr Tony Hawkrigde

Dr Sizulu Moyo

Dr Tracey Naledi

Dr David Pienaar

Dr Maria Stuttaford

##### Honorary Lecturers

Dr Glynis Denicker

Dr Juliet Evans

##### Honorary Research Associates

Ms Renate Douwes

Dr Nadine Harker-Burnhams

Dr Richard Matzopoulos

Dr Joanne McLoughlin

Dr Desiree Michaels

Dr Marlise Richter

Dr Chris Seebregts

##### Visiting Professors

Professor Laurel Baldwin-Ragaven

Professor Fons Coomans

Professor Stuart Whittaker

## **OCCUPATIONAL MEDICINE**

Occupational Medicine is the branch of medicine concerned with the study, diagnosis, treatment and prevention of disease and ill-health attributable to work. The Division of Occupational Medicine is a joint division of the School of Public Health and Family Medicine and the Department of Medicine at UCT. The Division runs the Occupational Medicine Clinic at Groote Schuur Hospital, provides diploma (DOH) training to medical practitioners and a postgraduate clinical specialisation in Occupational Medicine, and conducts research into occupational disease causation, risk and means of prevention, workers' compensation and occupational health service provision, and the occupational health needs of health care workers.

## **Research Fields and Staff**

### **Permanent Staff**

#### **PROFESSOR RODNEY EHRLICH**

Head: Division of Occupational Medicine;  
Occupational lung disease in mining; Tuberculosis in health care workers; Worker's compensation; Social epidemiology

#### **PROFESSOR MOHAMED JEEBHAY**

Occupational lung diseases epidemiology and prevention with a specific focus on work-related asthma

#### **MS FARANAAZ BENNETT**

Postgraduate Administrative Assistant

### **Contract Staff**

#### **DR AMY BURDZIK**

Lecturer (Part-time); Occupational Medicine, Occupational Dermatology

### **Emeritus and Honorary Staff**

#### **Honorary Professor**

#### **PROFESSOR GAVIN CHURCHYARD**

#### **Honorary Senior Lecturers**

Dr Shahieda Adams  
Dr Greg Kew  
Dr Sophia Kisting  
Dr Shuaib Manjra  
Dr Anne Raynal  
Dr Jim te Water Naude  
Dr Jack van Zyl

#### **Honorary Lecturers**

Dr David Knight  
Dr Anita van der Walt  
Dr Haidee Williams

#### **Emeritus Professor**

Professor Gail Todd

## **EPIDEMIOLOGY AND BIOSTATISTICS**

The Division of Epidemiology & Biostatistics leads teaching and research around quantitative research methods in the Faculty. The Division has specific research foci related to longitudinal studies and life course epidemiology, maternal & child health, analytic tools for examining repeated and correlated health outcomes, and clinical applications of predictive and prognostic modelling methods. In addition, staff from the Division provide technical inputs into study design, conduct and analysis to quantitative research projects from across the Faculty, including clinical and laboratory disciplines, with long-term collaborative studies with the Departments of Paediatrics & Child Health, Medicine and Obstetrics & Gynaecology, as well as the Divisions of Medical Virology and Immunology. International research collaborations include collaborative projects with US, UK, German and Dutch institutions in these fields. The Division has a substantial teaching programme related to research methods, including undergraduate courses across the Faculty, research methods teaching modules for postgraduate students including the MPH programme, and extensive supervision of postgraduate research projects.

### **Honorary Senior Lecturer**

Dr Tim Tucker

### **Visiting Professor**

Professor Matthais Egger

## **Research Fields and Staff**

### **Permanent Staff**

#### **PROFESSOR LANDON MYER**

Head: Division of Epidemiology and Biostatistics; HIV prevention and treatment; maternal and child health; women's reproductive health; research methods

#### **MR JORDACHE RAMJITH**

Lecturer; generalized linear models; time-to-event methods; child health

### **Contract Staff**

#### **DR MAIA LESOSKY**

Senior Lecturer; statistical theory; multidimensional data; predictive modelling; machine learning

### **Honorary Staff**

### **Honorary Professors**

Professor Carl Lombard  
Professor James McIntyre  
Professor Thomas Rehle

## HEALTH ECONOMICS

The Health Economics Division conducts policy relevant teaching and research in health economics and health systems. The key objective of the Division is to teach at the post-graduate level to develop capacity in health economics and related health systems research in Africa. The Division convenes the following programmes: a Masters in Public Health specialising in health economics, a PhD in health economics, a Post-graduate Diploma in health economics, and a post-doctoral programme in health economics. Our research maintains a balance between conceptual and applied research as well as between topics of local and international relevance, and focuses on four thematic areas of research, namely universal coverage and financing, governance and decision-making, economic evaluation and social determinants of health.

## Research Fields and Staff

### Permanent Staff

#### **ASSOCIATE PROFESSOR EDINA SINANOVIC**

Head: Division of Health Economics; Economic Evaluation; Social Determinants of Health

#### **PROFESSOR DIANE MCINTYRE**

Universal Health Coverage and Health Financing; Social Determinants of Health

#### **ASSOCIATE PROFESSOR SUSAN CLEARY**

Governance, Social Determinants of Health, Economic Evaluation

#### **MS LATIEFA ADAMS**

Academic Administrator

### Senior Lecturers

#### **DR OLUFUNKE ALABA**

Universal Health Coverage and Health Financing; Social Determinants of Health

#### **DR JOHN ATAGUBA**

Universal Health Coverage and Health Financing; Social Determinants of Health

#### **DR AYAKO HONDA**

Governance; Universal Health Coverage and Health Financing

#### **MS VELOSHNEE GOVENDER**

Lecturer; Governance; Universal Health Coverage and Health Financing; Social Determinants of Health

### Postdoctoral Fellow

#### **DR FILIP MEHEUS**

Universal Health Coverage and Health Financing; Economic Evaluation

## HEALTH POLICY AND SYSTEMS

The Health Policy and Systems Division has emerged in response to a global refocusing on health systems strengthening, and a parallel demand for practitioners and researchers with an understanding of health policy and health systems' change.

### Research Fields and Staff

#### Permanent Staff

##### PROFESSOR LUCY GILSON

Head: Division of Health Policy and Systems; strengthening complex health systems in ways that offer better public value, with particular concern for health equity; health policy implementation; health systems governance and leadership

#### Senior Lecturers

##### DR JILL OLIVIER

The integration of non-state health providers in health systems; community connection to systems; interdisciplinary research; multi-sectoral collaboration; organization culture and health communication

##### DR MAYLENE SHUNG KING

Child health; school health; childhood NCDs, leadership development

#### Research Staff

##### MS NIKHAT HOUSEN

Research Officer; Health systems and adolescent mental health; models of school health service provision for children with chronic health conditions

##### DR LEANNE BRADY

Junior Research Fellow; Health inequalities and health systems strengthening in low resource settings

##### MS LISA-MARIE SMITH

Research Administrator

#### Postdoctoral Fellows

##### DR DINTLE MOLOSIWA

Healthcare management; implementation research; health service delivery; maternal and child health; HIV/AIDS

##### DR GINA TEDDY

Governance and leadership in health; health policies and financing; implementation practices; leadership

development and workplace learning

#### Emeritus and Honorary Staff

#### Honorary Research Associate

##### DR RENE ENGLISH

#### Honorary Senior Lecturer

##### DR KAREN DANIELS

#### Senior Research Associate Emeritus

##### EMERITUS PROFESSOR JIM COCHRANE

#### Visiting Professors

Professor Teresa Cutts  
Professor Gary Gunderson  
Professor Uta Lehmann  
Professor Helen Schneider

## **SOCIAL AND BEHAVIOURAL SCIENCES**

The Division of Social and Behavioural Sciences coordinates the School's teaching and research capacity in the social and behavioural sciences. This is a disciplinary area that is increasingly recognised as a critical element in fulfilling the broader mission of public health' within the School, the Faculty, and by the public health community at large.

### **Research Fields and Staff**

#### **Permanent Staff**

##### **ASSOCIATE PROFESSOR CHRISTOPHER COLVIN**

Head: Division of Social and Behavioural Sciences; Social aspects of HIV; community participation in health; maternal and child health

##### **ASSOCIATE PROFESSOR JANE HARRIES**

Sexual and reproductive health and rights, gender and health, translational research

#### **Research Contract Staff**

##### **MS ALISON SWARTZ**

Lecturer and SASH Programme Manager; HIV and adolescence, qualitative research methods

##### **MS ELEANOR WHYLE**

Researcher; HIV and masculinity, community and health system engagement

##### **MS ZARA TRAFFORD**

Researcher; Community health workers, HIV support for postpartum women

##### **MR MANDLA MJOLO**

Research Coordinator; HIV and community mobilization

##### **MS APIWE MAKALIMA**

Research Administrator

#### **Honorary Staff**

##### **Honorary Professor**

##### **PROFESSOR DIANE COOPER**

##### **Honorary Associate Professors**

Associate Professor Abigail Harrison  
Associate Professor Mark Lurie  
Associate Professor Catherine Mathews

##### **Honorary Senior Lecturers**

Dr Chelsea Morroni  
Dr Dean Peacock

##### **Honorary Research Associates**

Dr Erin Stern  
Dr Emile Venables

##### **Visiting Professor**

Professor Sally Guttmacher

##### **Postdoctoral Fellows**

##### **DR MEGAN WAINWRIGHT**

NRF Innovation Postdoctoral Fellow; Experiential dimensions of chronic illnesses; qualitative research methods

##### **DR SARA COOPER**

URC Postdoctoral Fellow; Global mental health, chronic illnesses

## ENVIRONMENTAL HEALTH

The key focus of the Environmental Health Division is to develop capacity in low and middle income countries (LMICs) particularly Africa, to address environmental health risks and reduce the associated burden of disease.

## Research Fields and Staff

### Permanent Staff

#### ASSOCIATE PROFESSOR HANNA-ANDREA ROTHER

Head: Division of Environmental Health;  
Environmental determinants of health, innovative capacity building and engaged learning methods, pesticides and chemicals risk management, risk communication, risk perceptions, climate change, developing and evaluating health interventions, policy analysis

#### ASSOCIATE PROFESSOR AQIEL DALVIE

Endocrine disruption, pesticides, air pollution, water pollution, climate change, asthma

#### MS PRECIOUS CANHAM

Administrative Assistant

### Honorary Staff

#### Honorary Senior Lecturer

Dr Gamini Manuweera

### Visiting Professors

Professor Thomas Arcury  
Professor Sara Quandt

## Contact Details

Postal Address: School of Public Health and Family Medicine, Faculty of Health Sciences, University of Cape Town, Observatory, 7925, South Africa  
Telephone: +27 21 406 6300  
Fax: +27 21 406 6459  
Email: [Carmen.Dekoker@uct.ac.za](mailto:Carmen.Dekoker@uct.ac.za)  
Website: <http://www.publichealth.uct.ac.za/>

## RESEARCH OUTPUT

### Authored books

Hellenberg, D.A., Corder, H.M., de Vos, P., Schwikkard, P.J. and Pope, A. 2015. World Justice Project: Rule of Law Index 2015. 188pp. USA: World Justice Project. ISBN 9780988284692.

### Chapters in books

Adams, S. and Burdzik, A. 2015. How to assess fitness for driving at work. In B. Mash and J. Blitz (eds), South African Family Practice Manual Volume 3, pp. 533-541. 3<sup>rd</sup> edition. SA: Van Schaik Publishers. ISBN 9780627031236.

Adams, S., Burdzik, A. and Jeebhay, M.F. 2015. How to claim compensation for work-related injuries or diseases. In B. Mash and J. Blitz (eds), South African Family Practice Manual Volume 3, pp. 543-548. 3<sup>rd</sup> edition. SA: Van Schaik Publishers. ISBN 9780627031236.

Flisher, A.J., Dawes, A.R.L., Kafaar, Z., Lund, C.A., Sorsdahl, K., Myers, B.J., Thom, R. and Seedat, S. 2015. Children and adolescent mental health in South Africa. In E. Akyeampong, A.G. Hill, and A. Kleinman (eds), The culture of mental illness and psychiatric practice in Africa, pp. 144-162. Bloomington, Indiana: Indiana University Press. ISBN 9780253012937.

Furman, S.N. 2015. How to do office spirometry. In B. Mash and J. Blitz (eds), South African Family Practice Manual Volume 3, pp. 117-119. 3<sup>rd</sup> edition. SA: Van Schaik Publishers. ISBN 9780627031236.

Gilson, L. 2015. Michael Lipsky, Street-level bureaucracy: dilemmas of the individual in public service. In S.J. Balla, M. Lodge and E.C. Page (eds), The Oxford Handbook of Classics in Public Policy and Administration, pp. 383-404. UK: Oxford University Press. ISBN 9780199646135.

Hellenberg, D.A. 2015. How to conduct skin prick testing. In B. Mash and J. Blitz (eds), South African Family Practice Manual Volume 3, pp. 170-171. 3<sup>rd</sup> edition. SA: Van Schaik Publishers. ISBN 9780627031236.

Hellenberg, D.A. 2015. How to do a skin biopsy, cryotherapy and electrotherapy. In B. Mash and J. Blitz (eds), South African Family Practice Manual Volume 3, pp. 172-176. 3<sup>rd</sup> edition. SA: Van Schaik Publishers. ISBN 9780627031236.

Hellenberg, D.A. 2015. How to refer a patient. In B. Mash and J. Blitz (eds), South African Family Practice Manual Volume 3: 531-532. 3<sup>rd</sup> edition. SA: Van Schaik Publishers. ISBN 9780627031236.



- Hellenberg, D.A. and Visser, W. 2015. How to treat warts. In B. Mash and J. Blitz (eds), South African Family Practice Manual Volume 3, pp. 185-187. 3<sup>rd</sup> edition. SA: Van Schaik Publishers. ISBN 9780627031236.
- Levendal, E., English, R., Schneider, H., London, L. and Haricharan, H.J. 2015. Health governance. In M.P. Matsoso, R.J. Fryatt and G. Andrews (eds), The South African Health Reforms 2009 - 2014: Moving Towards Universal Coverage, pp. 244-280. Cape Town: Juta. ISBN 9781485110606.
- Matzopoulos, R., Bhalla, K. and Harrison, J. 2015. Homicide. In P.D. Donnelly and C.L. Ward (eds), Oxford Textbook of Violence Prevention Epidemiology, Evidence, and Policy, pp. 11-17. United Kingdom: Oxford University Press. ISBN 9780199678723.
- McIntyre, D.E., Brijlal, V. and Nkosi, M. 2015. Health systems financing. In M.P. Matsoso, R.J. Fryatt and G. Andrews (eds), The South African Health Reforms 2009 - 2014: Moving Towards Universal Coverage, pp. 114-140. Cape Town: Juta. ISBN 9781485110606.
- Namane, M. 2015. How to diagnose and inject trochanteric bursitis. In B. Mash and J. Blitz (eds), South African Family Practice Manual Volume 3, pp. 352-352. 3<sup>rd</sup> edition. SA: Van Schaik Publishers. ISBN 9780627031236.
- Namane, M. 2015. How to examine for and inject De Quervain's tenosynovitis. In B. Mash and J. Blitz (eds), South African Family Practice Manual Volume 3, pp. 343-344. 3<sup>rd</sup> edition. SA: Van Schaik Publishers. ISBN 9780627031236.
- Namane, M. 2015. How to measure shortening of the legs. In B. Mash and J. Blitz (eds), South African Family Practice Manual Volume 3, pp. 351-351. 3<sup>rd</sup> edition. SA: Van Schaik Publishers. ISBN 9780627031236.
- Namane, M. 2015. How to establish an intraosseous infusion in an adult. In B. Mash and J. Blitz (eds), South African Family Practice Manual Volume 3, pp. 331-331. 3<sup>rd</sup> edition. SA: Van Schaik Publishers. ISBN 9780627031236.
- Namane, M. 2015. How to examine for and inject a painful shoulder. In B. Mash and J. Blitz (eds), South African Family Practice Manual Volume 3, pp. 338-339. 3<sup>rd</sup> edition. SA: Van Schaik Publishers. ISBN 9780627031236.
- Namane, M. 2015. How to examine for and inject carpal tunnel syndrome. In B. Mash and J. Blitz (eds), South African Family Practice Manual Volume 3, pp. 345-346. 3<sup>rd</sup> edition. SA: Van Schaik Publishers. ISBN 9780627031236.
- Namane, M. 2015. How to examine for and inject tennis elbow and golfer's elbow. In B. Mash and J. Blitz (eds), South African Family Practice Manual Volume 3, pp. 341-342. 3<sup>rd</sup> edition. SA: Van Schaik Publishers. ISBN 9780627031236.
- Namane, M. 2015. How to examine, aspirate and inject an inflamed knee. In B. Mash and J. Blitz (eds), South African Family Practice Manual Volume 3, pp. 353-353. 3<sup>rd</sup> edition. SA: Van Schaik Publishers. ISBN 9780627031236.
- Olivier, J. 2015. Religion at the intersection of development and public health development contexts. From advocacy about faith-based organizations to systems thinking. In E. Tomalin (ed), The Routledge Handbook of Religions and Global Development, pp. 346-358. UK: Routledge. ISBN 9780415836364.
- Padarath, A., Sanders, D., London, L., Boulle, T., Haricharan, H.J. and King, J. 2015. Community participation in the post-apartheid era: progress and challenges. In M.P. Matsoso, R.J. Fryatt and G. Andrews (eds), The South African Health Reforms 2009 - 2014: Moving Towards Universal Coverage, pp. 224-242. Cape Town: Juta. ISBN 9781485110606.
- Pick, W., Jacobs, M. and Buthelezi, G. 2015. Human resources for universal health coverage. In M.P. Matsoso, R.J. Fryatt and G. Andrews (eds), The South African Health Reforms 2009 - 2014: Moving Towards Universal Coverage, pp. 160-180. Cape Town: Juta. ISBN 9781485110606.
- Richter, M. and Isaacs, G.Q. 2015. "Cape Town is free". In P. Aggleton and R. Parker (eds), Men Who Sell Sex. Global Perspectives, pp. 120-130. UK: Routledge (Taylor & Francis Group). ISBN 9780415723008.
- Robins, S. and Colvin, C.J. 2015. Social movements after Apartheid: rethinking strategies and TACTics in a time of democratic transition. In B. Klandermans and C. van Stralen (eds), Movements in times of democratic transitions, pp. 259-278. USA: Temple University Press. ISBN 9781439911808.
- Stuttaford, M., Kiewiets, D., Nefdt, W., Reynolds, V., Rhodes, G., Sigasana, L. and London, L. 2014. In M. Freeman, S. Hawkes and B. Bennett (eds), Conceptualising implementation of the right to health: the learning network for health and human rights, Western Cape, South Africa. Law and Global Health: Current Legal Issues Volume 16, pp. 76-93. Oxford, United Kingdom: Oxford University Press. ISBN 9780199688999.
- Whittaker, S., Marshall, C. and Reddy, J. 2015. Improving quality. In M.P. Matsoso, R.J. Fryatt and G. Andrews (eds), The South African Health Reforms 2009 - 2014: Moving Towards Universal Coverage, pp. 86-113. Cape Town: Juta. ISBN 9781485110606.

## Articles in peer-reviewed journals

Adams, S., Ehrlich, R.I., Baatjies, R., Van Zyl Smit, R., Said-Hartley, Q.M., Dawson, R. and Dheda, K. 2015. Incidence of occupational latent tuberculosis infection in South African healthcare workers. *European Respiratory Journal*, 45: 1364-1373.

Adebayo, E., Uthman, O.A., Wiysonge, C., Stern, E., Lamont, K. and Ataguba, J.E. 2015. A systematic review of factors that affect uptake of community-based health insurance in low-income and middle-income countries. *BMC Health Services Research*, 15: 543(13pp).

Andrade Rivas, F. and Rother, H. 2015. Chemical exposure reduction: factors impacting on South African herbicide sprayers' personal protective equipment compliance and high risk work practices. *Environmental Research*, 142: 34-45.

Annie, H., Johnson, E., Graves, C., Olivier, J., Duff, J. and Dieleman, J.L. 2015. Estimating the development assistance for health provided to faith-based organizations, 1990-2013. *PLoS One*, 10(6): e0128389(16pp).

Ashmore, J. and Gilson, L. 2015. Conceptualizing the impacts of dual practice on the retention of public sector specialists – evidence from South Africa. *Human Resources for Health*, 13: 3(9pp).

Ataguba, J.E., Day, C. and McIntyre, D.E. 2014. Monitoring and evaluation progress towards universal health coverage in South Africa. *Plos Medicine*, 11(9): e1001686(3pp).

Ataguba, J.E., Day, C. and McIntyre, D.E. 2015. Explaining the role of the social determinants of health on health inequality in South Africa. *Global Health Action*, 8: 28865(11pp).

Baatjies, R., Meijster, T., Heederik, D. and Jeebhay, M.F. 2015. Exposure-response relationships for inhalant wheat allergen exposure and asthma. *Occupational and Environmental Medicine*, 72: 200-207.

Ballif, M., Renner, L., Dusingize, J.C., Leroy, V., Ayaya, S., Wools-Kaloustian, K., Cortes, C.P., McGowan, C.C., Graber, C., Mandalakas, A., Mofenson, L., Egger, M., Wati, K., Nallusamy, R., Reubenson, G., Davies, M. and Fenner, L. 2015. Tuberculosis in pediatric antiretroviral therapy programs in low- and middle-income countries: diagnosis and screening practices. *Pediatric Infectious Disease Journal*, 4(1): 30-38.

Barasa, E., Molyneux, S., English, M. and Cleary, S. 2015. Setting healthcare priorities in hospitals: a review of empirical studies. *Health Policy and Planning*, 30: 386-396.

Barth, D., Mayosi, B.M., Jabar, A. and Engel, M.E. 2015. Prevalence of group a streptococcal disease in

North and Sub-Saharan Africa: a systematic review protocol. *BMJ Open*, 5: e008646(5pp).

Batura, N., Hill, Z., Haghparast-Bidgoli, H., Lingam, R., Colbourn, T., Kim, S., Sikander, S., Pulkki-Brannstrom, A.-N., Rahman, A., Kirkwood, B. and Skordis, J. 2015. Highlighting the evidence gap: how cost-effective are interventions to improve early childhood nutrition and development? *Health Policy and Planning*, 30: 813-821.

Beckett, N., Hellenberg, D.A. and Namane, M. 2014. A qualitative evaluation of University of Cape Town medical students' feedback of the objective structured clinical examination. *MEFANET Journal (Mefanet J)*, 2(1): 20-25.

Bedeker, W., Lachman, A.S., Borkum, M., Hellenberg, D.A. and Cupido, C. 2015. Impact of transthoracic echocardiography at district hospital level. *SAMJ South African Medical Journal*, 105(10): 817-822.

Bekker, L., Johnson, L.F., Cowan, F.M., Overs, C., Besada, D., Hillier, S. and Cates, W. 2015. Combination HIV prevention for female sex workers: what is the evidence? *Lancet*, 385: 72-87.

Bekker, L., Johnson, L.F., Wallace, M. and Hosek, S. 2015. Building our youth for the future. *Journal of the International AIDS Society*, 18: 20027(7pp).

Bennin, F. and Rother, H. 2015. "But it's just paracetamol": caregivers' ability to administer over-the-counter painkillers to children with the information provided. *Patient Education and Counseling*, 98: 331-337.

Bohlius, J., Maskew, M., Davies, M. and Egger, M. 2015. HHV-8 seroprevalence in HIV-positive and HIV-negative populations. *International Journal of Cancer*, 136: 1243.

Bowman, B., Stevens, G., Eagle, G. and Matzopoulos, R. 2015. Bridging risk and enactment: the role of psychology in leading psychosocial research to augment the public health approach to violence in South Africa. *South African Journal of Psychology*, 45(3): 279-293.

Bresick, G., Sayed, A.R., Le Grange, C., Bhagwan, S.B. and Manga, N. 2015. Adaptation and cross-cultural validation of the United States primary care assessment tool (expanded version) for use in South Africa. *African Journal of Primary Health Care & Family Medicine*, 7(1): 783(11pp).

Brittain, K., Giddy, J., Myers, L., Cooper, D.D., Harries, J. and Stinson, K. 2015. Pregnant women's experiences of male partner involvement in the context of prevention of mother-to-child transmission in Khayelitsha, South Africa. *Aids Care*, 27(8): 1020-1024.

- Brittain, K., Myers, L., Koen, N., Koopowitz, S., Donald, K.A., Barnett, W., Zar, H.J. and Stein, D.J. 2015. Risk factors for antenatal depression and associations with infant birth outcomes: results from a South African birth cohort study. *Paediatric and Perinatal Epidemiology*, 29: 505-514.
- Buchmann, E.J., Mnyani, C.N., Frank, K.A., Chersich, M.F. and McIntyre, J.A. 2015. Declining maternal mortality in the face of persistently high HIV prevalence in a middle-income country. *BJOG-An International Journal of Obstetrics and Gynaecology*, 122: 220-227.
- Burnhams, N. and Parry, C. 2015. The state of interventions to address substance-related disorders in South African workplaces: implications for research, policy and practice. *South African Journal of Psychology*, 45(4): 495-507.
- Burnhams, N., London, L., Laubscher, R., Nel, E. and Parry, C. 2015. Results of a cluster randomised controlled trial to reduce risky use of alcohol, alcohol-related HIV risks and improve help-seeking behaviour among safety and security employees in the Western Cape, South Africa. *Substance Abuse Treatment Prevention and Policy*, 10(18): 1-14.
- Burton, R., Giddy, J. and Stinson, K. 2015. Prevention of mother-to-child transmission in South Africa: an ever-changing landscape. *Obstetrics Medicine*, 8(1): 5-12.
- Calmy, A., Goemaere, E. and Van Cutsem, G. 2015. HIV and ebola virus: two jumped species but not two of a kind. *AIDS*, 29: 1593-1596.
- Cassidy, A., Ntshingwa, M., Galuszka, J. and Matzopoulos, R. 2015. Evaluation of a Cape Town safety intervention as a model for good practice: a partnership between researchers, community and implementing agency. *Stability*, 4(1): 27(12pp).
- Chi, B.H., Tih, P., Zanolini, A., Stinson, K., Ekouevi, D.K., Coetzee, D.J., Welty, T.K., Bweupe, M., Shaffer, N., Dabis, F., Stringer, E.M. and Stringer, J.S.A. 2015. Reconstructing the PMTCT cascade using cross-sectional household survey data: the PEARL study. *Jacids-Journal of Acquired Immune Deficiency Syndromes*, 70: e5-e9.
- Churchyard, G.J., Stevens, W.S., Mametja, L.D., McCarthy, K.M., Chihota, V., Nicol, M.P., Erasmus, L.K., Ndjeka, N., Mvusi, L., Vassall, A., Sinanovic, E., Cox, H. and Dye, C. 2015. Xpert MTB/RIF versus sputum microscopy as the initial diagnostic test for tuberculosis: a cluster-randomised trial embedded in South African roll-out of Xpert MTB/RIF. *The Lancet Global Health*, 3: e450-e457.
- Ciaranello, A.L., Myers, L., Kelly, K., Christensen, S., Daskilewicz, K., Doherty, K., Bekker, L., Hou, T., Wood, R., Francke, J.A., Wools-Kaloustian, K., Freedberg, K.A. and Walensky, R.P. 2015. Point-of-care CD4 testing to inform selection of antiretroviral medications in South African antenatal clinics: a cost-effectiveness analysis. *PLoS One*, 10(3): e0117751(19pp).
- Cleary, S., Botes, E., Lehmann, U., Schaay, N., Figlan, N. and Gilson, L. 2015. Re-imagining community participation at the district level: lessons from the DIALHS collaboration. *South African Health Review*, 2014/2015: 151-162.
- Cois, A. and Day, C. 2015. Obesity trends and risk factors in the South African adult population. *BMC Obesity*, 2(42): 1-10.
- Cois, A. and Ehrlich, R.I. 2015. Socioeconomic status modifies the seasonal effect on blood pressure. *Medicine*, 94(35): e1389(10pp).
- Colvin, C.J. 2015. Anthropologies in and of evidence making in global health research and policy. *Medical Anthropology*, 34: 99-105.
- Colvin, C.J. and Harrison, A. 2015. Broadening the debate over HIV and hormonal contraceptives. *Lancet Infectious Diseases*, 15(2): 135-136.
- Colvin, C.J. and Swartz, A. 2015. Extension agents or agents of change. *Annals of Anthropological Practice*, 39(1): 29-41.
- Colvin, C.J. and Wainwright, M. 2015. Confidence in the evidence from reviews of qualitative research (CERQual): development and future directions of a novel approach. *Cochrane Database of Systematic Reviews*, 1: 45-47.
- Colvin, C.J., Leon, N., Wills, C., Van Niekerk, M., Bissell, K. and Naidoo, P. 2015. Global-to-local policy transfer in the introduction of new molecular tuberculosis diagnostics in South Africa. *International Journal of Tuberculosis and Lung Disease*, 19(11): 1326-1338.
- Colvin, C.J., Wainwright, M., Noyes, J., Munthe-Kaas, H., Garside, R., Carlsen, B., Rashidian, A., Booth, A., Glenton, C., Bohren, M., Lewin, S. and Tunçalp, O. 2015. Confidence in the evidence from reviews of qualitative research (CERQual): development and future directions of a novel approach. *Cochrane Database of Systematic Reviews*, Supplement 1: 45-47.
- Cooper, D.D., Mantell, J.E., Moodley, J.R. and Mall, S. 2015. The HIV epidemic and sexual and reproductive health policy integration: views of South African policymakers. *BMC Public Health*, 15: 217(9pp).
- Cornell, M., Cox, V. and Wilkinson, L. 2015. Public Health blindness towards men in HIV programmes in Africa. *Tropical Medicine & International Health*, 20(12): 1634-1635.
- Cornell, M., Johnson, L.F., Schomaker, M., Tanser, F., Maskew, M., Wood, R., Prozesky, H., Giddy, J., Stinson,

- K., Egger, M., Boulle, A.M. and Myer, L. 2015. Age in antiretroviral therapy programmes in South Africa: a retrospective, multicentre, observational cohort study. *Lancet HIV*, 2: e368-e375.
- Cox, H., Furin, J.J., Mitnick, C., Daniels, C., Cox, V. and Goemaere, E. 2015. The need to accelerate access to new drugs for multidrug-resistant tuberculosis. *Bulletin of the World Health Organization*, 93: 491-497.
- Cox, H., Ramma, L., Wilkinson, L., De Azevedo, V. and Sinanovic, E. 2015. Cost per patient of treatment for rifampicin-resistant tuberculosis in a community-based programme in Khayelitsha, South Africa. *Tropical Medicine & International Health*, 20(10): 1337-1345.
- Cox, V., De Azevedo, V., Stinson, K., Wilkinson, L., Rangaka, M. and Boyles, T.H. 2015. Diagnostic accuracy of tuberculin skin test self-reading by HIV patients in a low-resource setting. *International Journal of Tuberculosis and Lung Disease*, 19(11): 1300-1304.
- Craven, S. 2014. The first ascent of Cockscomb 1758 m Eastern Cape. *Journal of the Mountain Club of South Africa*, 117: 23-27.
- Craven, S. 2015. The 1980 visit of Tony Jarratt to southern Africa. *Cave and Karst Science*, 41(3): 110-113.
- Craven, S. 2015. William Guybon Atherstone: His 8-day and 1600 km house call to Oudtshoorn in 1890. *SAMJ South African Medical Journal*, 105(7): 516.
- Craven, S.A. 2015. The Himalayan career of Robert Dove Leakey (1914 - 2013). *Himalayan Journal*, 70: 176-182.
- Dachs, R.P., Fleming, M.A., Chivers, D., Carrara, H.R.O., du Plessis, J.P., Vrettos, B.C. and Roche, S. 2015. Total elbow arthroplasty: outcomes after triceps-detaching and triceps-sparing approaches. *Journal of Shoulder and Elbow Surgery*, 24: 339-347.
- Dada, S., Burnhams, N., van Hout, M.C. and Parry, C.D.H. 2015. Codeine misuse and dependence in South Africa - learning from substance abuse treatment admissions. *SAMJ South African Medical Journal*, 105(9): 776-779.
- Dallatomasina, S., Crestani, R., Sylvester Squire, J., Declerk, H., Caleo, G.M., Wolz, A., Stinson, K., Patten, G., Brechard, R., Gbabai, O.B.M., Spreicher, A., Van Herp, M. and Zachariah, R. 2015. Ebola outbreak in rural West Africa: epidemiology, clinical features and outcomes. *Tropical Medicine & International Health*, 20(4): 448-454.
- Daniels, J., Khogali, M., Mohr, E., Cox, V., Moyo, S., Edginton, M., Gudmund Hinderaker, S., Meintjes, G., Hughes, J., De Azevedo, V., Van Cutsem, G. and Cox, H. 2015. Time to ART initiation among patients treated for rifampicin-resistant tuberculosis in Khayelitsha, South Africa: impact on mortality and treatment success. *PLoS One*, 10(11): e0142873(15pp).
- Davies, M. 2015. Research gaps in neonatal HIV-related care. *Southern African Journal of HIV medicine*, 16(1): 375(6pp).
- Davies, M. and Pinto, J. 2015. Targeting 90-90-90 - don't leave children and adolescents behind. *Journal of the International AIDS Society*, 18(Suppl 6): 20745(4pp).
- Davies, M., Ford, N., Rabie, H., Fatti, G., Stinson, K., Giddy, J., Tanser, F., Technau, K.-G., Sawry, S., Eley, B.S., Wood, R., Mofenson, L., Keiser, O. and Boulle, A.M. 2015. Reducing CD4 monitoring in children on antiretroviral therapy with virologic suppression. *Pediatric Infectious Disease Journal*, 34(12): 1361-1364.
- de Jager, C.A., Joska, J., Hoffman, M., Borochoowitz, K.E. and Combrinck, M.I. 2015. Dementia in rural South Africa: a pressing need for epidemiological studies. *SAMJ South African Medical Journal*, 105(3): 189-190.
- Deepnarain, N., Kumari, S., Ramjith, J., Swalaha, F.M., Tandoi, V., Pillay, K. and Bux, F. 2015. A logistic model for the remediation of filamentous bulking in a biological nutrient removal wastewater treatment plant. *Water Science and Technology*, 72(3): 391-405.
- Dekkers, O.M., Cevallos, M., Buhner, J., Poncet, A., Ackermann Rau, S., Perneger, T.V. and Egger, M. 2015. Comparison of noninferiority margins reported in protocols and publications showed incomplete and inconsistent reporting. *Journal of Clinical Epidemiology*, 68: 510-517.
- Dewing, S., Mathews, C., Lurie, M.N., Kagee, A., Padayachee, T. and Lombard, C. 2015. Predictors of poor adherence among people on antiretroviral treatment in Cape Town, South Africa: a case-control study. *Aids Care*, 27(3): 342-349.
- Dewing, S., Mathews, C., Schaay, N., Cloete, A., Simbayi, L. and Louw, J. 2015. Improving the counselling skills of lay counsellors in antiretroviral adherence settings: a cluster randomised controlled trial in the Western Cape, South Africa. *AIDS and Behavior*, 19: 157-165.
- Doherty, J. and McIntyre, D.E. 2015. #FeesMustFall and the campaign for universal health coverage. *SAMJ South African Medical Journal*, 105(12): 1014-1015.
- Doherty, T., Ngandu, N., Blume, J., Leon, N. and Mathews, C. 2015. Early initiation of antiviral therapy among young children: a long way to go. *Jaid-*

- Journal of Acquired Immune Deficiency Syndromes, 70(2): e70-e71.
- Donald, K.A.M., Walker, K.G., Kilborn, T.N., Carrara, H.R.O., Langerak, N., Eley, B.S. and Wilmschurst, J. 2015. HIV encephalopathy: pediatric case series description and insights from the clinic coalface. *AIDS Research and Therapy*, 12: 2(10pp).
- Dreyer, G., van der Merwe, F.H., Botha, M.H., Snyman, L.C., Constant, D., Visser, C. and Harvey, J. 2015. School-based human papillomavirus vaccination: an opportunity to increase knowledge about cervical cancer and improve uptake of screening. *SAMJ South African Medical Journal*, 105(11): 912-916.
- Dunbar, G., Hellenberg, D.A. and Levitt, N. 2015. Diabetes mellitus and non-traumatic lower extremity amputations in four public sector hospitals in Cape Town, South Africa, during 2009 and 2010. *SAMJ South African Medical Journal*, 105(12): 1053-1056.
- Dunning, L., Hsiao, N.M. and Myers, L. 2015. Point-of-care HIV early infant diagnosis: is test sensitivity everything? *Journal of the International AIDS Society*, 18: 20235(3pp).
- Dworkin, S.L., Fleming, P.J. and Colvin, C.J. 2015. The promises and limitations of gender-transformative health programming with men: critical reflections from the field. *Culture, Health and Sexuality*, 17(Suppl 2): S128-S143.
- Eaton, J.W., Bacaer, N., Bershteyn, A., Cambiano, V., Cori, A., Dorrington, R.E., Fraser, C., Gopalappa, C., Hontelez, J.A.C., Johnson, L.F., Klein, D.J., Phillips, A.N., Pretorius, C., Stover, J., Rehle, T. and Hallett, T.B. 2015. Assessment of epidemic projections using recent HIV survey data in South Africa: a validation analysis of ten mathematical models of HIV epidemiology in the antiretroviral therapy era. *The Lancet Global Health*, 3(10): e598-e608.
- Ehrlich, R.I. 2015. History and medicine-the case of silicosis. *American Journal of Industrial Medicine*, 58: S1-S2.
- Ehrlich, R.I., Adams, S., Manjra, S., Mokoena, T. and Jeebhay, M.F. 2015. Fate of outstanding COIDA occupational disease claims following closure of the Western Cape Provincial Medical advisory panel in 2008 an audit. *Occupational Health Southern Africa*, 21(6): 6-10.
- Engel, M.E., Haileamlak, A., Zuhlke, L., Lemmer, C.E., Nkepu, S.A., Van De Wall, M., Daniel, W., Shung King, M. and Mayosi, B.M. 2015. Prevalence of rheumatic heart disease in 4720 asymptomatic scholars from South Africa and Ethiopia. *Heart*, 101: 1389-1394.
- Essel, V., van Vuuren, U., De Sa, A.M.R., Govender, S., Murie, K., Schlemmer, A., Gunst, C., Namane, M., Boule, A.M. and de Vries, E. 2015. Auditing chronic disease care: does it make a difference? *African Journal of Primary Health Care & Family Medicine*, 7(1): 753(7pp).
- Estill, J., Salazar-Vizcaya, L., Blaser, N., Egger, M. and Keiser, O. 2015. The cost-effectiveness of monitoring strategies for antiretroviral therapy of HIV infected patients in resource-limited settings: software tool. *PLoS One*, 10(3): e0119299(17pp).
- Eyles, J., Harris, B., Fried, J., Govender, M. and Munyewende, P. 2015. Endurance, resistance and resilience in the South African health care system: case studies to demonstrate mechanisms of coping within a constrained system. *BMC Health Services Research*, 15: 432(12pp).
- Folb, N., Timmerman, V., Levitt, N., Steyn, K., Bachmann, M.O., Lund, C., Bateman, E.D., Lombard, C., Gaziano, T., Zwarenstein, M. and Fairall, L. 2015. Multimorbidity, control and treatment of noncommunicable diseases among primary healthcare attenders in the Western Cape, South Africa. *SAMJ South African Medical Journal*, 105(8): 642-647.
- Ford, N., Meintjes, G., Pozniak, A., Bygrave, H., Hill, A., Peter, T., Davies, M., Grinsztejn, B., Calmy, A., Kumarasamy, N., Phanuphak, P., de Beudrap, P., Vitoria, M., Doherty, M., Stevens, W.S. and Siberry, G.K. 2015. The future role of CD4 cell count for monitoring antiretroviral therapy. *Lancet Infectious Diseases*, 15: 241-247.
- Ford, N., Mills, E. and Egger, M. 2015. Immunodeficiency at start of antiretroviral therapy: the persistent problem of late presentation to care. *Clinical Infectious Diseases*, 60(7): 1128-1130.
- Ford, N., Shubber, Z., Meintjes, G., Grinsztejn, B., Eholie, S., Mills, E., Davies, M., Vitoria, m., Penazzato, M., Nsanzimana, S., Frigati, L., O'Brien, D. and Ellman, T. 2015. Causes of hospital admission among people living with HIV worldwide: a systematic review and meta-analysis. *Lancet HIV*, 2: e438-e444.
- Ford, N., Stinson, K., Gale, H., Mills, E., Stevens, W., Gonzalez, M.P., Markby, J. and Hill, A. 2015. CD4 changes among virologically suppressed patients on antiretroviral therapy: a systematic review and meta-analysis. *Journal of the International AIDS Society*, 18: 20061(5pp).
- Foster, N., Vassall, A., Cleary, S., Cunnam, L., Churchyard, G.J. and Sinanovic, E. 2015. The economic burden of TB diagnosis and treatment in South Africa. *Social Science & Medicine*, 130: 42-50.
- Geng, E.H., Neilands, T.B., Thiebaut, R., Bwana, M.B., Nash, D., Moore, R.J., Wood, R., Zannou, M.D., Althoff, K.N., Lim, P.L., Nachega, J., Easterbrook, P.J., Kambungu, A., Little, F., Nakigozi, G., Nakanjako, D.,

- Kiggundu, V., Li, P.C.K., Bangsberg, D.R., Fox, M.P., Prozesky, H., Hunt, P.W., Davies, M., Reynolds, S.J., Egger, M., Yiannoutsos, C., Vittinghoff, E.V., Deeks, S.G. and Martin, J.N. 2015. CD4+ T cell recovery during suppression of HIV replication: an international comparison of the immunological efficacy of antiretroviral therapy in North America, Asia and Africa. *International Journal of Epidemiology*, 44(1): 251-263.
- Gerdts, C., DePineres, T., Hajri, S., Harries, J., Hossain, A., Puri, M., Vohra, D. and Foster, D. 2015. Denial of abortion in legal settings. *Journal of Family Planning and Reproductive Health Care*, 41: 161-163.
- Getahun, H., Matteelli, A., Abubakar, I., Abdel Aziz, M., Baddeley, A., Barreira, D., Den Boon, S., Gutierrez, S.M.B., Bruchfeld, J., Burhan, E., Cavalcante, S.C., Cedillos, R., Chaisson, R., Chee, C.B.E., Chesire, L., Corbett, E.L., Dara, M., Denholm, J., de Vries, G., Falzon, D., Ford, N., Gale-Rowe, M., Gilpin, C., Girardi, E., Go, U.-Y., Govindasamy, D., Grant, A., Grzemska, M., Harris, R., Horsburgh Jr, C.R., Ismayilov, A., Jaramillo, E., Kik, S.K., Kranzer, K., Lienhardt, C., LoBue, P., Linnroth, K., Marks, G., Menzies, D., Migliori, G.B., Mosca, D., Mukadi, Y.-D., Mwinga, A., Nelson, L., Nishikiori, N., Oordt-Speets, A., Rangaka, M.X., Reis, A., Rotz, L., Sandgren, A., Schepis, M.S., Schnemann, H.J., Sharm, S., Sotgiu, G., Stagg, R., Sterling, T.R., Tayeb, T., Uplekar, M., van der Werf, M., Vandeveld, W., van Kesse, F., Van'T Hoog, A., Varma, J.K., Vezhnina, N., Voniatis, C., Vonk Noordegraaf-Schouten, M., Weil, D., Weyer, K., Wilkinson, R.J., Yoshiyama, T., Zellweger, J.P. and Raviglione, M. 2015. Management of latent mycobacterium tuberculosis infection: WHO guidelines for low tuberculosis burden countries. *European Respiratory Journal*, 46: 1563-1576.
- Gibbs, A., Campbell, C., Akintola, O. and Colvin, C.J. 2015. Social contexts and building social capital for collective action: three case studies of volunteers in the context of HIV and AIDS in South Africa. *Journal of Community & Applied Social Psychology*, 25: 110-122.
- Gomez, G.B., Foster, N., Brals, D., Nelissen, H.E., Bolarinwa, O.A., Hendriks, M.E., Boers, A.C., Van Eck, D., Rosendaal, N., Adenusi, P. and Agbede, K. 2015. Improving maternal care through a state-wide health insurance program: a cost and cost-effectiveness study in rural Nigeria. *PLoS One*, 10(9): e0139048(17pp).
- Govender, M., Fried, J., Birch, S., Chimbindi, N. and Cleary, S. 2015. Disability grant: a precarious lifeline for HIV/AIDS patients in South Africa. *BMC Health Services Research*, 15: 227(10pp).
- Gray, D., Czovek, D., Smith, E., Willemse, L., Alberts, A., Gingl, Z., Hall, G.L., Zar, H.J., Sly, P.D. and Hantos, z. 2015. Respiratory impedance in healthy unsexed South African infants: effects of maternal smoking. *Respirology*, 20: 467-473.
- Gray, D., Willemse, L., Alberts, A., Smith, E., Czovek, D., Sly, P.D., Hantos, Z., Hall, G.L. and Zar, H.J. 2015. Lung function and exhaled nitric oxide in healthy unsexed African infants. *Respirology*, 20: 1108-1114.
- Grimsrud, A.T., Sharp, J., Kalombo, C., Bekker, L. and Myer, L. 2015. Implementation of community-based adherence clubs for stable antiretroviral therapy patients in Cape Town, South Africa. *Journal of the International AIDS Society*, 18: 19984(8pp).
- Grimsrud, A.T., Wilkinson, L. and Cornell, M. 2015. The challenge of retention within antiretroviral treatment programmes and the need for recent data. *Jacids - Journal of Acquired Immune Deficiency Syndromes*, 70(1): e27.
- Grobler, L., Marais, B.J. and Mabunda, S. 2015. Interventions for increasing the proportion of health professionals practising in rural and other underserved areas. *Cochrane Database of Systematic Reviews*, 6: CD005314(81pp).
- Groenewald, P., Azevedo, V., Daniels, J., Evans, J., Boule, A.M., Naledi, N. and Bradshaw, D. 2015. The importance of identified cause-of-death information being available for public health surveillance, actions and research. *SAMJ South African Medical Journal*, 105(7): 528-530.
- Gueler, A., Schoeni-Affolter, F., Moser, A., Bertisch, B., Bucher, H.C., Calmy, A., Cavassini, M., Ledergerber, B., Wandeler, G. and Egger, M. 2015. Neighbourhood socio-economic position, late presentation and outcomes in people living with HIV in Switzerland. *AIDS*, 29: 231-238.
- Haas, A.D., Keiser, O., Balestre, E., Brown, S., Bissagnene, E., Chimbetete, C., Dabis, F., Davies, M., Hoffmann, C.J., Oyaro, P., Parkes-Ratanshi, R., Reynolds, S.J., Sikazwe, I., Wools-Kaloustian, K., Zannou, M.D., Wandeler, G., Egger, M. and Eley, B.S. 2015. Monitoring and switching of first-line antiretroviral therapy in adult treatment cohorts in sub-Saharan Africa: collaborative analysis. *Lancet HIV*, 2: e271-e278.
- Harniss, M., Raja, D.S. and Matter, R. 2015. Assistive technology access and service delivery in resource-limited environments: introduction to a special issue of disability and rehabilitation: assistive technology. *Disability and Rehabilitation*, 10(4): 267-270.
- Harries, J., Gerdts, C., Momberg, M. and Foster, D. 2015. An exploratory study of what happens to women who are denied abortions in Cape Town, South Africa. *Reproductive Health*, 12: 21(6pp).

- Harrison, A., Colvin, C.J., Kuo, C., Swartz, A. and Lurie, M.N. 2015. Sustained high HIV incidence in young women in Southern Africa: social, behavioral, and structural factors and emerging intervention approaches. *Current HIV/AIDS Report*, 12: 207-215.
- Heffron, R., Cohen, C.R., Ngure, K., Bukusi, E.A., Were, E., Kiarie, J., Mugo, N., Celum, C., Baeten, J. and Coetzee, D.J. 2015. A scoring tool to identify East African HIV-1 serodiscordant partnerships with a high likelihood of pregnancy. *PLoS One*, 10(12): e0145515(14pp).
- Henao-Restrepo, A.M., Longini, I.M., Egger, M., Dean, N.E., Edmunds, W.J., Camacho, A., Carroll, M., Doumbia, M., Druquez, D., Duraffour, S. and Enwere, F. 2015. Efficacy and effectiveness of an rVSV-vectored vaccine expressing ebola surface glycoprotein: interim results from the Guinea ring vaccination cluster-randomised trial. *Lancet*, 386: 857-866.
- Hermans, S., Boulle, A.M., Caldwell, J., Pienaar, D. and Wood, R. 2015. Temporal trends in TB notification rates during ART scale-up in Cape Town: an ecological analysis. *Journal of the International AIDS Society*, 18: 20240(7pp).
- Hersi, M., Stevens, A., Quach, P., Hamel, C., Thavorn, K., Garritty, C., Skidmore, B., Vallenias, C., Norris, S.L., Egger, M., Eremin, S., Ferri, M., Shindo, N. and Moher, D. 2015. Effectiveness of personal protective equipment for healthcare workers caring for patients with Filovirus disease: a rapid review. *PLoS One*, 10(10): e0140290(17pp).
- Hoffman, J.R., Arendse, K.D., Larbi, C., Johnson, N. and Vivian, L.M.H. 2015. Perceptions and knowledge of voluntary medical male circumcision for HIV prevention in traditionally non-circumcising communities in South Africa. *Global public health*, 10(5-6): 692-707.
- Honda, A. 2015. Analysis of agency relationships in the design and implementation process of the equity fund in Madagascar. *BMC Research Notes*, 8(31): 1-13.
- Honda, A. and Vio, F. 2015. Incentives for non-physician health professionals to work in the rural and remote areas of Mozambique—a discrete choice experiment for eliciting job preferences. *Human Resources for Health*, 13: 23(12pp).
- Honda, A., Ryan, M., Van Niekerk, R. and McIntyre, D.E. 2015. Improving the public health sector in South Africa: eliciting public preferences using a discrete choice experiment. *Health Policy and Planning*, 30: 600-611.
- Howell, S., Burnhams, N., Townsend, L. and Shaw, M. 2015. The wrong type of decline: fluctuations in price and value of illegal substances in Cape Town. *South African Crime Quarterly*, 54: 43-54.
- Isaacs, A., Manga, N., Le Grange, C., Hellenberg, D.A., Sayed, R. and Titus, V. 2015. Quality of care and cost of prescriptions for diabetes and hypertension at primary healthcare facilities in the Cape Town metropole. *South African Family Practice (Geneeskunde: The Medicine Journal)*, 57(3): 187-193.
- Isaakidis, P., Casas, E.C., Das, M., Tseretopoulou, X., Ntzani, E.E. and Ford, N. 2015. Treatment outcomes for HIV and MDR-TB co-infected adults and children: systematic review and meta-analysis. *International Journal of Tuberculosis and Lung Disease*, 19(8): 969-978.
- Jabar, A., Barth, D., Matzopoulos, R. and Engel, M.E. 2015. Is the introduction of violence and injury observatories associated with a reduction of violence in adult populations? Rationale and protocol for a systematic review. *BMJ OPEN*, 5: e007073(5pp).
- Jacob, N.A.S. and Coetzee, D.J. 2015. Missed opportunities for immunisation in health facilities in Cape Town, South Africa. *SAMJ South African Medical Journal*, 105(11): 917-921.
- Jacob, R., Moyo, T., Schomaker, M., Abrahams, F., Pujol, B.G. and Dorfman, J. 2015. Anti-V3/glycan and anti-MPER neutralizing antibodies, but not anti-V2/glycan site antibodies, are strongly associated with greater anti-HIV-1 neutralization breadth and potency. *Journal of Virology*, 89(10): 5264-5275.
- Jobson, G., Struthers, H. and McIntyre, J.A. 2015. In the fell clutch of circumstance: HIV and men who have sex with men in Sub-Saharan Africa. *Current HIV/AIDS Report*, 12: 164-172.
- Johnson, L., Rehle, T., Jooste, S. and Bekker, L. 2015. Rates of HIV testing and diagnosis in South Africa: successes and challenges. *AIDS*, 29: 1401-1409.
- Johnson, L.F., Dorrington, R.E., Laubscher, R., Hoffmann, C.J., Wood, R., Fox, M.P., Cornell, M., Schomaker, M., Prozesky, H., Tanser, F., Davies, M. and Boulle, A.M. 2015. A comparison of death recording by health centres and civil registration in South Africans receiving antiretroviral treatment. *Journal of the International AIDS Society*, 18: 20628(7pp).
- Kamkuemah, M.N., Kaplan, R., Bekker, L., Little, F. and Myer, L. 2015. Renal impairment in HIV-infected patients initiating tenofovir-containing antiretroviral therapy regimens in a Primary Healthcare Setting in South Africa. *Tropical Medicine & International Health*, 20(4): 518-526.
- Keiser, O., Blaser, N., Davies, M., Wessa, P., Eley, B.S., Moultrie, H., Rabie, H., Technau, K., Ndirangu, J., Garone, D., Giddy, J., Grimwood, A., Gsponer, T. and Egger, M. 2015. Growth in virologically suppressed HIV-positive children on antiretroviral therapy: individual and population-level references. *Pediatric Infectious Disease Journal*, 34(10): e254-e259.

- Kengne, A.P., Mason-Jones, A.J., Sliwa, K., Mayosi, B.M., Stein, D.J. and Matzopoulos, R. 2015. Global, regional, and national incidence, prevalence, and years lived with disability for 301 acute and chronic diseases and injuries in 188 countries, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *Lancet*, 386: 743-800.
- Kengne, A.P., Matzopoulos, R., Mason-Jones, A.J. and Sliwa, K. 2015. Global, regional, and national age-sex specific all-cause and cause-specific mortality for 240 causes of death, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *Lancet*, 385: 117-171.
- Kengne, A.P., Matzopoulos, R., Sliwa, K., Mayosi, B.M. and Stein, D.J. 2015. Global, regional, and national comparative risk assessment of 79 behavioural, environmental and occupational, and metabolic risks or clusters of risks in 188 countries, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *Lancet*, 386: 2287-2323.
- Kerschberger, B., Boulle, A.M., Kranzer, K., Hilderbrand, K., Schomaker, M., Coetzee, D.J., Goemaere, E. and Van Cutsem, G. 2015. Superior virologic and treatment outcomes when viral load is measured at 3 months compared to 6 months on antiretroviral therapy. *Journal of the International AIDS Society*, 18: 20092(6pp).
- Knight, D., Ehrlich, R.I., Fielding, K.L., Jeffery, H., Grant, A. and Churchyard, G.J. 2015. Trends in silicosis prevalence and the healthy worker effect among gold miners in South Africa: a prevalence study with follow up of employment status. *BMC Public Health*, 15: 1258(9pp).
- Koller, M., Fatti, G., Chi, B.H., Keiser, O., Hoffmann, C.J., Wood, R., Prozesky, H., Stinson, K., Giddy, J., Mutevedzi, P., Fox, M.P., Law, M., Boulle, A.M. and Egger, M. 2015. Risk charts to guide targeted HIV-1 viral load monitoring of ART: development and validation in patients from resource-limited settings. *J AIDS-Journal of Acquired Immune Deficiency Syndromes*, 70(3): e110-e119.
- Koller, M., Patel, M.R., Chi, B.H., Wools-Kaloustian, K., Dicko, F., Chokephaibulkit, K., Chimbetete, C., Avila, D., Hazra, R., Ayaya, S., Leroy, V., Truong, H.K., Egger, M. and Davies, M. 2015. Immunodeficiency in children starting antiretroviral therapy in low-, middle-, and high-income countries. *J AIDS-Journal of Acquired Immune Deficiency Syndromes*, 68(1): 62-72.
- Kranzer, K., Elamin, W.F., Cox, H., Seddon, J.A., Ford, N. and Drobniewski, F. 2015. A systematic review and meta-analysis of the efficacy and safety of N-acetylcysteine in preventing aminoglycoside-induced ototoxicity: implications for the treatment of multidrug-resistant TB. *Thorax*, 70: 1070-1077.
- Kwesiga, B., Ataguba, J.E., Abewe, C., Kizza, P. and Zikusooka, C.M. 2015. Who pays for and who benefits from health care services in Uganda? *BMC Health Services Research*, 15: 44(9pp).
- Kwesiga, B., Zikusooka, C.M. and Ataguba, J.E. 2015. Assessing catastrophic and impoverishing effects of health care payments in Uganda. *BMC Health Services Research*, 15: 30(6pp).
- Ladur, A., Colvin, C.J. and Stinson, K. 2015. Perceptions of community members and healthcare workers on male involvement in prevention of mother-to-child transmission services in Khayelitsha, Cape Town, South Africa. *PLoS One*, 10(7): e0133239(13pp).
- Laird, L., Barnes, L., Hunter Adams, J., Cochran, J. and Geltman, P.L. 2015. Looking Islam in the teeth: the social life of a Somali toothbrush. *Medical Anthropology Quarterly*, 29(3): 334-356.
- Lamont, K., Sliwa, K., Stewart, S., Pretorius, S., Libhaber, E., Wiysonge, C., Adebayo, E. and Klipstein-Grobusch, K. 2015. Short message service (SMS) as an educational tool during pregnancy: a literature review. *Health Education Research*, 1: 1-13.
- Lange, C., Hue, S., Violari, A., Cotton, M., Gibb, D.M., Babiker, A., Otworld, K., Panchia, R., Dobbels, E., Jean-Philippe, P., McIntyre, J.A., Pillay, D. and Kumar-Gupta, R. 2015. Single genome analysis for the detection of linked multiclass drug resistance mutations in HIV-1-infected children after failure of Protease inhibitor-based first-line therapy. *J AIDS-Journal of Acquired Immune Deficiency Syndromes*, 69(2): 138-144.
- Lau, Y. and Ataguba, J.E. 2015. Investigating the relationship between self-rated health and social capital in South Africa: a multilevel panel data analysis. *BMC Public Health*, 15: 266(10pp).
- Le Roux, D., Myer, L., Nicol, M.P. and Zar, H.J. 2015. Incidence and severity of childhood pneumonia in the first year of life in a South African birth cohort: the Drakenstein Child Health Study. *The Lancet Global Health*, 3: e95-e103.
- Le Roux, D., Myer, L., Nicol, M.P. and Zar, H.J. 2015. Incidence of childhood pneumonia: facility-based surveillance estimate compared to measured incidence in a South African birth cohort study. *BMJ Open*, 5: e009111(6pp).
- Lehmann, U. and Gilson, L. 2015. Action learning for health system governance: the reward and challenge of co-production. *Health Policy and Planning*, 30: 957-963.
- Lekei, E.E., Ngowi, A.V. and London, L. 2014. Pesticide retailers' knowledge and handling practices in selected towns of Tanzania. *Environmental Health*, 13: 79(9pp).



- Leon, N., Brady, L., Kwamie, A. and Daniels, K. 2015. Routine health information system (RHIS) interventions to improve health systems management. *Cochrane Database of Systematic Reviews*, 12: CD012012(10pp).
- Lewin, S., Glenton, C., Munthe-Kaas, H., Carlsen, B., Colvin, C.J., Glmezoglu, M., Noyes, J., Booth, A., Garside, R. and Rashidian, A. 2015. Using qualitative evidence in decision making for health and social interventions: An approach to assess confidence in findings from qualitative evidence syntheses (GRADE-CERQual). *Plos Medicine*, 12(10): e1001895(18pp).
- Lince-Deroche, N., Constant, D.A., Harries, J., Blanchard, K., Sinanovic, E. and Grossman, D. 2015. The cost of accessing abortion in South Africa: women's costs associated with second-trimester abortion services in Western Cape Province. *Contraception*, 92: 339-344.
- London, L. 2014. Israel-Gaza conflict. *Lancet*, 384(9941): 34-37.
- London, L., Himonga, C., Fick, N. and Stuttaford, M. 2015. Social solidarity and the right to health: essential elements for people-centred health systems. *Health Policy and Planning*, 30: 938-945.
- Lund, C., Alem, A., Schneider, M., Hanlon, C., Ahrens, J., Bandawe, C., Bass, H., Bhana, A., Burns, J., Chibanda, D., Cowan, F.M., Davies, T., Dewey, M., Fekadu, A., Freeman, M., Honikman, S., Joska, J., Kagee, A., Mayston, R., Medhin, G., Musisi, S., Myer, L., Ntulo, T., Nyatsanza, M., Ofori-Atta, A., Petersen, I., Phakathi, S., Prince, M., Shibre, T., Stein, D.J., Swartz, I., Thornicroft, G., Tomlinson, M., Wissow, L. and Susser, E. 2015. Generating evidence to narrow the treatment gap for mental disorders in sub-Saharan Africa: Rationale, overview and methods of AFFIRM. *Epidemiology and Psychiatric Sciences*, 24: 233-240.
- Lupatsch, J.E., Kuehni, C., Niggli, F., Ammann, R.A., Egger, M. and Spycher, B.D. 2015. Population mixing and the risk of childhood leukaemia in Switzerland: a census - based cohort study. *European Journal of Epidemiology*, 30: 1287-1298.
- Luque-Fernandez, M., Ananth, C.V., Jaddoe, V.W.V., Gaillard, R., Albert, P.S., Schomaker, M., McElduff, P., Enquobahrie, D.A., Gelaye, B. and Williams, M. 2015. Is the fetoplacental ratio a differential marker of fetal growth restriction in small for gestational age infants? *European Journal of Epidemiology*, 30: 331-341.
- Malo, J.L., Tarlo, S.M., Sastre, J., Martin, J., Jeebhay, M.F., le Moual, N., Heederik, D., Platts-Mills, T., Blanc, P., Vandenplas, O., Moscato, G., De Blay, F. and Cartier, A. 2015. An official American thoracic society workshop report: presentations and discussion of the fifth Jack Pepys workshop on asthma in the workplace. *Annals of the American Thoracic Society*, 12(7): S99-S110.
- Maqungo, S., Allen, J., Carrara, H., Roche, S. and Rueff, N. 2015. Early application of the Thomas splint femur shaft fractures in a Level 1 Trauma Unit. *SA Orthopaedic Journal*, 14(3): 75-79.
- Mash, R., Ogunbanjo, G., Naidoo, S.S. and Hellenberg, D.A. 2015. The contribution of family physicians to district health services: a national position paper for South Africa. *South African Family Practice (Geneeskunde: The Medicine Journal)*, 57(3): 54-61.
- Matzopoulos, R., Prinsloo, M., Pillay-van Wyk, V., Gwebushe, N., Mathews, S., Martin, L.J., Laubscher, R., Abrahams, N., Msemburi, W., Lombard, C. and Bradshaw, D. 2015. Injury-related mortality in South Africa: a retrospective descriptive study of postmortem investigations. *Bulletin of the World Health Organization*, 93: 303-313.
- Mayosi, B.M., Kengne, A.P. and Matzopoulos, R. 2015. Global, regional, and national comparative risk assessment of 79 behavioural, environmental and occupational, and metabolic risks or clusters of risks in 188 countries, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *Lancet*, 386: 2287-2323.
- Mbulawa, Z., Coetzee, D.J. and Williamson, A.-L. 2015. Human papillomavirus prevalence in South African women and men according to age and human immunodeficiency virus status. *BMC Infectious Diseases*, 15: 459(11pp).
- Meintjes, G., Kerkhoff, A., Burton, R., Schutz, C., Boulle, A.M., Van Wyk, G., Blumental, L., Nicol, M.P. and Lawn, S.D. 2015. HIV-related medical admissions to a South African district hospital remain frequent despite effective antiretroviral therapy scale-up. *Medicine*, 94(50): e2269(10pp).
- Middelkoop, K., Mathema, B., Myer, L., Shashkina, E., Whitelaw, A., Kaplan, G., Kreiswirth, B., Wood, R. and Bekker, L. 2015. Transmission of tuberculosis in a South African community with a high prevalence of HIV infection. *Journal of Infectious Diseases*, 211: 53-61.
- Moens, K., Siegert, R., Taylor, S., Namisango, E., Selman, L., Harding, R., Godfrey, A., Natalya, D., Downing, J., Gwyther, E., Keletso, M., Moll, T., Mashao, T., Mpanga Sebuyira, L., Ikin, B. and Higginson, I. 2015. Symptom clusters in people living with HIV attending five palliative care facilities in two sub-Saharan African countries: a hierarchical cluster analysis. *PLoS One*, 10(5): e0126554(12pp).
- Moodley, J.R., Singh, V., Kagina, B., Abdullahi-Hussein, L. and Hussey, G.D. 2015. A bibliometric analysis of

cancer research in South Africa: study protocol. *BMJ Open*, 5: e006913(4pp).

Moolla, S., Rajkumar, A. and de Vries, E. 2015. Routine cranial computed tomography before lumbar puncture in HIV-positive adults presenting with seizures at Mitchells Plain Hospital, Cape Town. *Southern African Journal of HIV medicine*, 16(1): 354(7pp).

Morrison, C.S., Chen, P., Kwok, C., Baeten, J., Brown, J., Crook, A.M., Van Damme, L., Delany-Moretlwe, S., Francis, S.C., Friedland, B.A., Hayes, R., Heffron, R., Kapiga, S., Abdool Karim, S.S., Skoler-Karpoof, S., Kaul, R., McClelland, S.R., McCormack, S., McGrath, N., Myer, L., Rees, H., van der Straten, A., Watson-Jones, D., van de Wijgert, J.H.H.M., Stalter, R. and Low, N. 2015. Hormonal contraception and the risk of HIV acquisition: an individual participant data meta-analysis. *Plos Medicine*, 12(1): e1001778(26pp).

Motsoeneng, P. and Dalvie, M.A. 2015. Relationship between urinary pesticide residue levels and neurotoxic symptoms among women on farms in the Western Cape, South Africa. *International Journal of Environmental Research and Public Health*, 12: 6281-6299.

Motsohi, T., Isaacs, A., Manga, N., Le Grange, C., Roelofse, M., Milligan, P.D., Hellenberg, D.A. and Sayed, A. 2015. Common mental disorders are not diagnosed commonly in community health centres. *South African Family Practice*, 57(4): 259-260.

Moyo, S., Cox, H., Hughes, J., Daniels, J., Synman, L., De Azevedo, V., Shroufi, A., Cox, V. and Van Cutsem, G. 2015. Loss from treatment for drug resistant tuberculosis: risk factors and patient outcomes in a community-based program in Khayelitsha, South Africa. *PLoS One*, 10(3): e0118919(13pp).

Murphy, K., Chuma, T., Mathews, C., Steyn, K. and Levitt, N. 2015. A qualitative study of the experiences of care and motivation for effective self-management among diabetic and hypertensive patients attending public sector primary health care services in South Africa. *BMC Health Services Research*, 15: 303(9pp).

Murray, S., Firth, A., Schneider, N., Van Den Eynden, B., Gomez-Batiste, X., Brogaard, T., Villanueva, T., Abela, J., Eychmuller, S., Mitchell, G., Downing, J., Sallnow, L., Van Rijswijk, E., Barnard, A.J., Lynch, M.C., Fogen, F. and Moine, S. 2015. Promoting palliative care in the community: Production of the primary palliative care toolkit by the European Association of Palliative Care Taskforce in primary palliative care. *Palliative Medicine*, 29(2): 101-111.

Myburgh, H., Murphy, J., Van Huyssteen, M., Foster, N., Grobbelaar, C.J., Struthers, H., McIntyre, J.A., Hurter, T. and Peters, R.P.H. 2015. Implementation of an electronic monitoring and evaluation system

for the antiretroviral treatment programme in the Cape Winelands District, South Africa: a qualitative evaluation. *PLoS One*, 10(5): e0127223(22pp).

Myer, L., Phillips, T., Manuelli, V., McIntyre, J.A., Bekker, L. and Abrams, E.J. 2015. Evolution of antiretroviral therapy services for HIV-infected pregnant women in Cape Town, South Africa. *Jacids-Journal of Acquired Immune Deficiency Syndromes*, 69: e57-e65.

Myers, L., Phillips, T., Hsiao, N.M., Zerbe, A., Petro, G.A., Bekker, L., McIntyre, J.A. and Abrams, E. 2015. Plasma viraemia in HIV-positive pregnant women entering antenatal care in South Africa. *Journal of the International AIDS Society*, 18: 20045(5pp).

Namale, P., Abdullahi-Hussein, L., Fine, S., Kamkuemah, M.N., Wilkinson, R.J. and Meintjies, G. 2015. Paradoxical TB-IRIS in HIV-infected adults: a systematic review and meta-analysis. *Future Microbiology*, 10(6): 1077-1099.

Ndiaye, B.P., Thienemann, F., Ota, M., Landry, B., Camara, M., Diye, S., Dieye, T.N., Esmail, H., Goliath, R.T., McShane, H., Huygen, K., January, V., Ndiaye, I., Oni, T., Raine, M., Romano, M., Satti, I., Sutton, s., Thiam, A., Wilkinson, K., Mboup, S. and Wilkinson, R.J. 2015. Safety, immunogenicity, and efficacy of the candidate tuberculosis vaccine MVA85A in healthy adults infected with HIV-1: a randomised, placebo-controlled, phase 2 trial. *Lancet Respiratory Medicine*, 3: 190-200.

Nelson, A., Maritz, J., Giddy, J., Frigati, L., Rabie, H., Van Cutsem, G., Mutseyekwa, T., Jange, N., Bernheimer, J., Cotton, M. and Cox, V. 2015. HIV testing and antiretroviral therapy initiation at birth: views from a primary care setting in Khayelitsha. *Southern African Journal of HIV medicine*, 16(1): 376(4pp).

Nsanzimana, S., Remera, E., Kanters, S., Chan, K., Forrest, J.I., Ford, N., Condo, J., Binagwaho, A. and Mills, E. 2015. Life expectancy among HIV-positive patients in Rwanda: a retrospective observational cohort study. *The Lancet Global Health*, 3: e169-e177.

Nyikuri, M., Tsofa, B., Barasa, E., Okoth, P. and Molyneux, S. 2015. Crises and resilience at the frontline - public health facility managers under devolution in a sub-county on the Kenyan coast. *PLoS One*, 10(12): e0144768(18pp).

Oboirien, K.O., Eyles, J., McIntyre, D.E., Chimbindi, N., Harris, B., Orgill, M.S. and Goudge, J. 2015. Understanding roles, enablers and challenges of district clinical specialist teams in strengthening primary health care in South Africa. *South African Health Review*, 2014/2015: 45-55.

O'Connell, T., Bedford, K., Thiede, M. and McIntyre, D.E. 2015. Synthesizing qualitative and quantitative evidence on non-financial access barriers: implications for assessment at the district level.

- International Journal for Equity in Health, 14: 54(13pp).
- Okello, D. and Gilson, L. 2015. Exploring the influence of trust relationships on motivation in the health sector: a systematic review. *Human Resources for Health*, 13: 16(18pp).
- Olagbuji, B., Atiba, A.S., Olofinbiyi, B., Akintayo, A.A., Awoleke, J.O., Ade-Ojo, I.P. and Fasubaa, O.B. 2015. Prevalence of and risk factors for gestational diabetes using 1999, 2013 WHO and IADPSG criteria upon implementation of a universal one-step screening and diagnostic strategy in a sub-Saharan African population. *European Journal of Obstetrics Gynecology and Reproductive Biology*, 189: 27-32.
- Olaniyan, T., Dalvie, M.A. and Jeebhay, M.F. 2015. Ambient air pollution and childhood asthma: a review of South African epidemiological studies. *Current Allergy & Clinical Immunology*, 28(2): 122-127.
- Olivier, J. and Wodon, Q. 2015. Religion, reproductive health, and sexual behavior in Ghana: why statistics from large surveys don't tell the whole story. *Review of Faith & International Affairs*, 13(2): 64-73.
- Olivier, J., Tsimpo, C., Gemignani, R., Shojó, M., Coulombe, H., Dimmock, F., Nguyen, M., Hines, H., Mills, E., Dieleman, J. and Haakenstad, A. 2015. Understanding the roles of faith-based health-care providers in Africa: review of the evidence with a focus on magnitude, reach, cost, and satisfaction. *Lancet*, 386: 1765-1775.
- Oni, T. and Ehrlich, R.I. 2015. Complicated silicotuberculosis in a South African gold miner: a case report. *American Journal of Industrial Medicine*, 58: 697-701.
- Oni, T. and Unwin, N. 2015. Why the communicable/non-communicable disease dichotomy is problematic for public health control strategies: implications of multimorbidity for health systems in an era of health transition. *International Health*, 7: 390-399.
- Oni, T., Boulle, A.M., McGrath, N., Wilkinson, R.J., Levitt, N. and Youngblood, E. 2015. Patterns of HIV, TB, and non-communicable disease multi-morbidity in peri-urban South Africa- a cross sectional study. *BMC Infectious Diseases*, 15: 20(8pp).
- Padayachy, L., Kilborn, T.N., Carrara, H.R.O., Figaji, A.A. and Fieggen, A.G. 2015. Change in optic nerve sheath diameter as a radiological marker of outcome from endoscopic third ventriculostomy in children. *Childs Nervous System*, 31: 721-728.
- Parry, C., Pienaar, D., Ataguba, J.E., Volmink, J., Kredo, T., Jere, M. and Siegfried, N. 2015. Implication of Cochrane review on restricting or banning alcohol advertising in South Africa. *SAMJ South African Medical Journal*, 105(2): 80-81.
- Pasipanodya, J.G., Mubanga, M., Ntsekhe, M., Pandie, S., Magazi, B.T., Gumede, F.N., Myer, L., Gumbo, T. and Mayosi, B.M. 2015. Tuberculous Pericarditis is multibacillary and bacterial burden drives high mortality. *EBioMedicine*, 2: 1634-1639.
- Pepper, D.J., Schomaker, M., Wilkinson, R.J., de Azevedo, V. and Maartens, G. 2015. Independent predictors of tuberculosis mortality in a high HIV prevalence setting: a retrospective cohort study. *AIDS Research and Therapy*, 12: 35(9pp).
- Phillips, T., McNairy, M.L., Zerbe, A., Myer, L. and Abrams, E.J. 2015. Postpartum transfer of care among HIV-infected women initiating antiretroviral therapy during pregnancy. *Jaids-Journal of Acquired Immune Deficiency Syndromes*, 70(3): e102-e109.
- Pillay, V., Davies, M., King, S. and Eley, B.S. 2015. Short-term treatment outcomes of children starting antiretroviral therapy in the intensive care unit, general medical wards and outpatient HIV clinics at Red Cross War Memorial Children's Hospital, Cape Town, South Africa: a retrospective cohort study. *SAMJ South African Medical Journal*, 105(3): 220-227.
- Pines, A. and Shapiro, S. 2015. Long-term menopausal hormone therapy and health consequences-how to choose sides? *Climacteric*, 18(4): 441-443.
- Polman, K., Becker, S., Alirol, E., Bhatta, N.K., Bhattarai, N.R., Bottieau, E., Bratschi, M., Burza, S., Coulibaly, J., Doumbia, M., Horie, N.S., Jacobs, J., Khanal, B., Landoure, A., Mahendradhata, Y. and Meheus, F. 2015. Diagnosis of neglected tropical diseases among patients with persistent digestive disorders (diarrhoea and/or abdominal pain 14 days): Pierrea multi-country, prospective, non-experimental case-control study. *BMC Infectious Diseases*, 15: 338(13pp).
- Porter, M., Davies, M., Mapani, M., Rabie, H., Phiri, S., Nuttall, J.J., Technau, K.-G., Fairlie, L., Stinson, K., Wood, R., Wellington, M., Haas, A.D., Giddy, J., Tanser, F. and Eley, B.S. 2015. Outcomes of infants starting antiretroviral therapy in Southern Africa, 2004-2012. *Jaids-Journal of Acquired Immune Deficiency Syndromes*, 69(5): 593-601.
- Potter, P.C., Ehrlich, R.I., van Rooyen, C. and Fenimore, B. 2015. Occupational sensitization to African penguin serum and mucus proteins. *Annals of Allergy Asthma & Immunology*, 114: 345-347.
- Pyra, M., Heffron, R., Mugo, N., Nanda, K., Thomas, K., Celum, C., Kourtis, A.P., O'Were, E., Rees, H., Bukusi, E.A., Baeten, J. and Coetzee, D.J. 2015. Effectiveness of hormonal contraception in HIV-infected women using antiretroviral therapy. *AIDS*, 29(17): 2353-2359.

- Ramma, L., Cox, H., Wilkinson, L., Foster, N., Cunnam, L., Vassall, A. and Sinanovic, E. 2015. Patients' costs associated with seeking and accessing treatment for drug-resistant tuberculosis in South Africa. *International Journal of Tuberculosis and Lung Disease*, 19(12): 1513-1519.
- Rao, V.B., Johari, N., du Cros, P., Messina, J., Ford, N. and Cooke, G. 2015. Hepatitis C seroprevalence and HIV co-infection in sub-Saharan Africa: a systematic review and meta-analysis. *Lancet Infectious Diseases*, 15: 819-824.
- Ratshikhopha, M.E., Singh, T.S., Jones, D., Jeebhay, M.F. and Lopata, A.L. 2015. High concentrations of natural rubber latex allergens in gloves used by laboratory health personnel in South Africa. *SAMJ South African Medical Journal*, 105(1): 43-46.
- Rebe, K.B., Lewis, D.A., Myer, L., de Swardt, G., Struthers, H., Kamkuemah, M. and McIntyre, J.A. 2015. A cross sectional analysis of gonococcal and chlamydial infections among men-who have-sex-with-men in Cape Town, South Africa. *PLoS One*, 10(9): e0138315(12pp).
- Rehle, T., Johnson, L.F., Hallett, T., Mahy, M., Kim, A., Odido, H., Onoya, D., Jooste, S., Shisana, O., Puren, A., Parekh, B. and Stover, J. 2015. A comparison of South African national HIV incidence estimates: a critical appraisal of different methods. *PLoS One*, 10(7): e0133255(15pp).
- Richter, L., Mabaso, M., Ramjith, J. and Norris, S.A. 2015. Early sexual debut: voluntary or coerced? Evidence from longitudinal data in South Africa the birth to twenty plus study. *SAMJ South African Medical Journal*, 105(4): 304-307.
- Rother, H. 2015. Addressing pesticide risk management and risk reduction through distance learning education. *Outlooks on Pest Management*, 26(2): 66-71.
- Sastry, A., Long, K.N.G., De Sa, A.M.R., Salie, H., Topp, S., Sanghvi, S. and Van Niekerk, L. 2015. Collaborative action research to reduce persistently long patient wait times in two public clinics in Western Cape, South Africa. *The Lancet Global Health*, 3: S18.
- Sato, M. and Gilson, L. 2015. Exploring health facilities' experiences in implementing the free health-care policy (FHCP) in Nepal: how did organizational factors influence the implementation of the user-fee abolition policy? *Health Policy and Planning*, 30: 1272-1288.
- Schaftenaar, E., Lecuona, K., Baarsma, G., Meenken, C., Verjans, G.M.G.M., McIntyre, J.A. and Peters, R.P.H. 2015. Anterior chamber paracentesis to improve diagnosis and treatment of infectious uveitis in South Africa. *SAMJ South African Medical Journal*, 105(8): 628-630.
- Schomaker, M., Hogger, S., Johnson, L.F., Hoffmann, C.J., Barnighausen, T. and Heumann, C. 2015. Simultaneous treatment of missing data and measurement error in HIV research using multiple overimputation. *Epidemiology*, 26: 628-636.
- Schuurman, N., Cinnamon, J., Walker, B.B., Fawcett, V., Nicol, A., Hameed, S.M. and Matzopoulos, R. 2015. Intentional injury and violence in Cape Town, South Africa: an epidemiological analysis of trauma admissions data. *Global Health Action*, 8: 27016(9pp).
- Sen, G. and Govender, M. 2015. Theme: sexual and reproductive health in changing health systems. *Global public health*, 10(2): 228-242.
- Sengayi, M., Babb, C., Egger, M. and Urban, M. 2015. HIV testing and burden of HIV infection in black cancer patients in Johannesburg, South Africa: a cross-sectional study. *BMC Cancer*, 15: 144(12pp).
- Shapiro, S. 2015. Commentary. Oligognostic mega-analysis. Is Archie turning in his grave? *Maturitas*, 81: 439-441.
- Shapiro, S. 2015. Risk of breast cancer among users of estrogen plus progestogen and unopposed estrogen: is the likelihood of bias symmetrical? *Climacteric*, 18: 333-335.
- Shapiro, S., Stevenson, J.C., Mueck, A.O. and Baber, R. 2015. Misrepresentation of the risk of ovarian cancer among women using menopausal hormones. Spurious findings in a meta-analysis. *Maturitas*, 81: 323-326.
- Sherry, K. 2015. Disability and rehabilitation: essential considerations for equitable, accessible and poverty-reducing health care in South Africa. *South African Health Review*, 2014/2015: 89-99.
- Shisana, O., Zungu, N., Evans, M., Risher, K., Rehle, T. and Celentano, D. 2015. The case for expanding the definition of key populations to include high-risk groups in the general population to improve targeted HIV prevention efforts. *SAMJ South African Medical Journal*, 105(8): 664-669.
- Shroff, Z., Aulakh, B., Gilson, L., Akua Agyepong, I., El-Jardali, F. and Ghaffar, A. 2015. Incorporating research evidence into decision-making processes: researcher and decision-maker perceptions from five low- and middle-income countries. *Health Research Policy and Systems*, 13: 70(14pp).
- Siegfried, N., Beanland, R., Ford, N. and Mayer, K.H. 2015. Formulating the future research agenda for postexposure prophylaxis for HIV: methodological challenges and potential approaches. *Clinical Infectious Diseases*, 60(Suppl 3): S205-S211.

- Sinanovic, E., Ramma, L., Vassall, A., Azevedo, V., Wilkinson, L., Ndjeka, N., McCarthy, K.M., Churchyard, G.J. and Cox, H. 2015. Impact of reduced hospitalisation on the cost of treatment for drug-resistant tuberculosis in South Africa. *International Journal of Tuberculosis and Lung Disease*, 19(2): 172-178.
- Siracusa, A., Folletti, I., Gerth Van Wijk, R., Jeebhay, M.F., Moscato, G., Quirce, S., Raulf-Heimsoth, M., Rueff, F., Walusiak-Skorupa, J., Whitaker, P. and Tarlo, S.M. 2015. Occupational anaphylaxis – an EAACI task force consensus statement. *Allergy*, 70: 141-152.
- Sliwa, K., Matzopoulos, R., Kengne, A.P., Mayosi, B.M. and Stein, D.J. 2015. Global, regional, and national disability-adjusted life years (DALYs) for 306 diseases and injuries and healthy life expectancy (HALE) for 188 countries, 1990-2013: quantifying the epidemiological transition. *Lancet*, 386: 2145-2191.
- Sorsdahl, K., Myers, B.J., Ward, C.L., Matzopoulos, R., Mtukushe, B., Nicol, A., Cuijpers, P. and Stein, D.J. 2015. Adapting a blended motivational interviewing and problem-solving intervention to address risky substance use amongst South Africans. *Psychiatry Research*, 25(4): 435-444.
- Stein, D.J., Koen, N., Donald, K.A.M., Adnams, C.M., Koopowitz, S., Lund, C., Marais, A., Myers, B.J., Roos, A., Sorsdahl, K., Stern, M., Tomlinson, M., Van der Westhuizen, C., Vythilingum, B., Myer, L., Barnett, W., Brittain, K. and Zar, H.J. 2015. Investigating the psychosocial determinants of child health in Africa: the Drakenstein Child Health study. *Journal of Neuroscience Methods*, 252: 27-35.
- Stern, E., Clarfelt, A. and Buikema, R. 2015. The use of sexual history narratives to assess processes of hegemonic masculinity among South African Men in the context of HIV/AIDS. *Men and Masculinities*, 18(3): 340-362.
- Stern, E., Cooper, D.D. and Gibbs, A. 2015. Gender differences in South African men and women's access to and evaluation of informal sources of sexual and reproductive health (SRH) information. *Sex Education-Sexuality Society and Learning*, 15(1): 48-63.
- Stern, E., Cooper, D.D. and Greenbaum, B. 2015. The relationship between hegemonic norms of masculinity and men's conceptualization of sexually coercive acts by women in South Africa. *Journal of Interpersonal Violence*, 30(5): 796-817.
- Stern, E., Pascoe, L., Shand, T. and Richmond, S. 2015. Lessons learned from engaging men in sexual and reproductive health as clients, partners and advocates of change in the Hoima district of Uganda. *Culture Health & Sexuality*, 17(Suppl 2): S190-S205.
- Stucki, D., Ballif, M., Bodmer, T., Coscolla, M., Maurer, A.-N., Droz, S., Butz, C., Borrell, S., Lngle, C., Feldmann, J., Furrer, H., Mordasini, C., Helbling, P., Rieder, H.L., Egger, M., Gagneux, S. and Fenner, L. 2015. Tracking a tuberculosis outbreak over 21 Years: strain-specific single-nucleotide polymorphism typing combined with targeted whole-genome sequencing. *Journal of Infectious Diseases*, 211: 1306-1316.
- Surender, R., Van Niekerk, R., Hannah, B., Allan, L. and Shung King, M. 2015. The drive for universal healthcare in South Africa: views from private general practitioners. *Health Policy and Planning*, 30: 759-767.
- Swartz, A. and Colvin, C.J. 2015. 'It's in our veins': caring natures and material motivations of community health workers in contexts of economic marginalisation. *Critical public health*, 25(2): 139-152.
- Tenthani, L., Haas, A.D., Egger, M., van Oosterhout, J.J., Jahn, A., Chimbwandira, F., Tal, K., Myer, L., Estill, J. and Keiser, O. 2015. HIV testing among pregnant women who attend antenatal care in Malawi. *J AIDS-Journal of Acquired Immune Deficiency Syndromes*, 69(5): 610-614.
- Tucker, A., de Swardt, G., McIntyre, J.A. and Struthers, H. 2015. How do community-based HIV prevention programmes for men who have sex with men travel? Lessons learned from the Ukwazana/Zwakalani journey in South Africa. *Culture, Health and Sexuality*, 17(8): 977-989.
- Van de Ven, N., Fortunak, J., Simmons, B., Ford, N., Cooke, G., Khoo, S. and Hill, A. 2015. Minimum target prices for production of direct-acting antivirals and associated diagnostics to combat hepatitis C virus. *Hepatology*, 61: 1174-1182.
- Van Den Berg, W., Brittain, K., Mercer, G., Peacock, D., Stinson, K., Janson, H. and Dubula, V. 2015. Improving mens participation in preventing mother-to-child transmission of HIV as a maternal, neonatal, and Child Health Priority in South Africa. *Plos Medicine*, 12(4): e1001811(8pp).
- Van Der Watt, J., Benatar, M.G., Harrison, T.B., Carrara, H. and Heckmann, J.M. 2015. Isoniazid exposure and pyridoxine levels in human immunodeficiency virus associated distal sensory neuropathy. *International Journal of Tuberculosis and Lung Disease*, 19(11): 1312-1319.
- Van der Westhuizen, H.-M., Kotze, J., Narotam, H., von Delft, A., Willems, B. and Dramowski, A. 2015. Knowledge, attitudes and practices regarding TB infection control among health science students in a TB-endemic setting. *International Journal of Infection Control*, 11: i4(7pp).
- Vanker, A., Barnett, W., Nduru, P., Gie, R., Sly, P.D. and Zar, H.J. 2015. Home environment and indoor air

pollution exposure in an African birth cohort study. *Science of the Total Environment*, 536: 362-367.

Veld, D.H., Balestre, E., Buyze, J., Menten, J., Jaquet, A., Cooper, D., Dabis, F., Yiannoutsos, C.T., Diero, L., Mutevedzi, P., Fox, M.P., Messou, E., Hoffmann, C.J., Prozesky, H. and Egger, M. 2015. Determinants of weight evolution among HIV-positive patients initiating antiretroviral treatment in low-resource settings. *J AIDS-Journal of Acquired Immune Deficiency Syndromes*, 70: 146-154.

Versteeg, B., Dubbink, J.H., Bruisten, S.M., McIntyre, J.A., Morre, S.A. and Peters, R.P.H. 2015. High-resolution multilocus sequence typing reveals novel urogenital *Chlamydia trachomatis* strains in women in Mopani district, South Africa. *Sexually Transmitted Infections*, 91: 510-512.

Viitanen, A.P. and Colvin, C.J. 2015. Lessons learned: program messaging in gender-transformative work with men and boys in South Africa. *Global Health Action*, 8: 27860(12pp).

von Delft, A., Dramowski, A., Khosa, C., Kotze, K., Lederer, P., Mosidi, T., Peters, J.A., Smith, J., Van der Westhuizen, H.-M., von Delft, D., Willems, B., Bates, M., Craig, G., Maeurer, M., Marais, B.J., Mwaba, P., Nunes, E., Nyirenda, T., Oliver, M. and Zumla, A. 2015. Why healthcare workers are sick of TB. *International Journal of Infectious Diseases*, 32: 147-151.

Ward, C.L., Mertens, J.R., Bresick, G., Little, F. and Weisner, C. 2015. Screening and brief intervention for substance misuse: does it reduce aggression and HIV-related risk behaviours? *Alcohol and Alcoholism*, 50(3): 302-309.

Williams, P., Petersen, Z., Sorsdahl, K., Mathews, C., Everett-Murphy, K. and Parry, C. 2015. Screening and brief interventions for alcohol and other drug use among pregnant women attending midwife obstetric units in Cape Town, South Africa: a qualitative study of the views of health care professionals. *Journal of Midwifery & Womens Health*, 60: 401-409.

Yang, E., Cook, C.D. and Kahn, D. 2015. Acute appendicitis in the public and private sectors in Cape Town, South Africa. *World Journal of Surgery*, 39: 1700-1707.

Yotebieng, M., Meyers, T., Behets, F., Davies, M., Keiser, O., Ngonyani, K.Z., Lyamuya, R., Kariminia, A., Hansudewechakul, R., Leroy, V., Koumakpai, S., Newman, J. and Van Rie, A. 2015. Age-specific and sex-specific weight gain norms to monitor antiretroviral therapy in children in low-income and middle-income countries. *AIDS*, 29: 101-109.

Zar, H.J., Barnett, W., Myer, L., Stein, D.J. and Nicol, M.P. 2015. Investigating the early-life determinants of illness in Africa: the Drakenstein Child Health Study. *Thorax*, 70: 592-594.

# Department of Radiation Medicine

## Research Report 2015

**Acting Head of Department:  
Professor Jeannette Parkes**

## DIVISION OF NUCLEAR MEDICINE

**Head of Division: Dr Tessa Kotze**

### Divisional Profile

Nuclear medicine currently provides a wide spectrum of diagnostic procedures, in-vivo studies and therapy; all pertaining to the use of unsealed sources of radioactivity. Procedures cover the central nervous system, respiratory, cardiac, gastrointestinal, genitourinary, endocrine, lymphatic and skeletal systems. There is access to both SPECT/CT and PET/CT. All procedures are integrated into service provision, training and research. In the department is also an osteodensitometer.

### Divisional Statistics

#### Permanent and Long-Term Contract Staff

#### Joint Staff (UCT/PGWC)

Senior Consultant	<b>2</b>
-------------------	----------

#### Students

Masters	<b>4</b>
---------	----------

### Research Fields and Staff

#### Permanent Staff

#### **DR TESSA KOTZE**

Thyroid, therapy

## DR RACHELLE STEYN

Training, PET, therapy

### Contact Details

Postal Address: Division of Nuclear Medicine,  
Groote Schuur Hospital and University of Cape  
Town, Observatory, 7925 Cape Town.

Telephone: +27 21 404 6747

Fax: +27 21 404 402

Email: [Tessa.Kotze@uct.ac.za](mailto:Tessa.Kotze@uct.ac.za)

Website: [http://www.health.uct.ac.za/fhs/  
departments/radiation\\_med/nuclear\\_med/about](http://www.health.uct.ac.za/fhs/departments/radiation_med/nuclear_med/about)

# Department of Radiation Medicine

## DIVISION OF RADIATION ONCOLOGY

**Acting Head of Division: Associate  
Professor Jeanette Parkes**

### Divisional Profile

The Division of Radiation Oncology provides the following services:

Investigation, management and treatment of all forms of malignant disease. This is co-ordinated by 23 multidisciplinary clinics, which meet weekly.

Participation in clinical studies, both investigator initiated and as part of co-operative groups.

Teaching of undergraduate medical courses and provision of post graduate specialists training courses. Pre and post-diplomate instruction to radiographers and post-diplomate courses to nurses. Full training in Radiobiology from under-graduate to honours, masters and doctoral level.

Provision of a comprehensive clinical radiobiological research facility.

### Divisional Statistics

#### Permanent and Long-Term Contract Staff

##### JMS Staff

Professor (chair)	Post vacant
-------------------	-------------

##### University Staff

Research Staff	4
Administrative/Clerical Staff	1
<b>Total</b>	<b>5</b>

## Joint Staff (UCT/PAWC)

Head of Clinical Unit	1
Senior Full-time Lecturers	3
Lecturers	3
Principal Medical Officers	1
Sessional Medical Officers	2
Medical Scientists	2
<b>Total</b>	<b>12</b>

## Honorary Staff

Honorary Lecturers	1
--------------------	---

## Postgraduate Students

Registrars	8
Supernumerary registrars	10
<b>Total</b>	<b>18</b>

## Research Fields and Staff

### Permanent Staff

### Specialist Staff

#### **ASSOCIATE PROFESSOR JEANETTE PARKES**

Chief Specialist Radiation Oncology & Acting Head of Division Radiation Oncology and Senior Lecturer; Main interests - neurological tumours, paediatric tumours, bone and soft tissue tumours. Radiotherapy education, radiotherapy quality assurance

#### **DR ZAINAB MOHAMED**

Senior Specialist Radiation Oncology and Senior Lecturer; Main interests - Lymphoma, Myeloma, Melanoma, Kaposi's sarcoma, medical ethics, clinical quality assurance

#### **DR LEON VAN WIJK**

Senior Specialist Radiation Oncology & Senior Lecturer; Main interests - Gynaecological tumours, intracavitary brachytherapy

#### **DR BARBARA ROBERTSON**

Specialist Radiation Oncology & Lecturer; Main interests - Thyroid, Oesophageal and Gastro-intestinal cancers, liver cancer, unknown primary cancers

#### **DR JULIE WETTER**

Specialist Radiation Oncology and Lecturer; Main interests - ocular tumours, skin cancers, Head and neck tumours, clinical oncology education, quality assurance in radiotherapy

#### **DR SAMEERA DALVIE**

Specialist Radiation Oncology Lung Cancer; Ear, nose and throat cancer, advanced radiotherapy techniques

#### **DR T NAIKER**

Specialist Radiation Oncology - Main interests - Breast cancer, Paediatric cancers, sarcomas, neurological cancers

#### **DR DAVID ANDERSON**

Specialist Radiation Oncology - Main interests - Urological tumours, breast cancer, unknown primary tumours, comprehensive cancer care, advanced radiotherapy techniques

### Medical Officers

#### **DR CINDY SHEPHERD**

Principal Medical Officer Radiation Oncology; Main interests - Lung cancer, urological cancers, GIT cancers, thyroid cancers

### Scientific Staff

#### **DR ANDRE HENDRIKSE**

Senior Medical Natural Scientist & Lecturer; Main interest - Research in Medical Natural Science Radiobiology (research on tumours with experimental animals)

#### **DR ALISTAIR HUNTER**

Medical Natural Scientist; Main interest - Research in Medical Natural Science Radiobiology (research on tumours with experimental animals)

### Contract Research Staff

#### **Part-time Clerical Research Assistants (Data Managers)**

Mrs Glynis Chilcott

Mrs B Williams



## Contact Details

Postal address: Division of Radiation Oncology,  
Groote Schuur Hospital & University of Cape Town,  
Observatory, 7925, South Africa

Telephone: +27 21 404 4263/5 Nadia Mitchell  
(administrator)

Fax: +27 21 404 5259

Email: [jeanette.parkes@uct.ac.za](mailto:jeanette.parkes@uct.ac.za)

Website: [http://www.health.uct.ac.za/fhs/  
departments/radiation\\_med/radiation\\_onco/  
about/](http://www.health.uct.ac.za/fhs/departments/radiation_med/radiation_onco/about/)

# Department of Radiation Medicine

## DIVISION OF MEDICAL PHYSICS

**Head of Division: Ms Hester Burger**

### Divisional profile

The key project for 2015 for the Division of Medical Physics was the collaboration with Varian Medical Systems and CPUT to set up a brand new practical radiotherapy training facility. The project allows for the use of a virtual training computer called the Seminar VERT system, specifically designed for Radiotherapy training. It allows students hands-on training on this 3D computer system, as well as a fully equipped radiotherapy treatment planning computer laboratory.

The curriculum and technology was tested during a dry-run course in June 2015, followed by a successful delivery of a full three week course in August 2015. Two teams each from Ghana and Zimbabwe attended the course, followed by three months of email based mentoring to implement clinical radiation oncology and medical physics protocols. The programme will continue in 2016.

The Division also took part in the Groote Schuur Hospital Innovations Grand Challenge project, and was awarded funding to pilot a Radiation Oncology optimization programme through the use of the locally developed "Time Machine" game board.

Other activities included:

- PhD students (2), one completed successfully in December 2015
- MSc student (2), one thesis submitted in December 2015
- National and international posters/presentations (21)
- Publications (11 abstracts published in European Journal of Medical Physics)
- External examiner/moderator (4)
- Contributions towards book chapters (3)
- Research and development collaboration projects (2)

Mr Christoph Trauernicht was awarded the South African Association of Physicists in Medicine and Biology and South African Bureau of Standards prize for the most outstanding research in the Radiation Dosimetry field.

## Research Fields and Staff

### Head of Department

#### **H. BURGER**

Modern Radiotherapy and Radiosurgery Treatments and Treatment Planning

### Deputy Manager

#### **C TRAUERNICHT**

Nuclear Medicine and Brachytherapy

### Assistant Managers (Medical Physics)

#### **H MAC GREGOR**

Radiotherapy and Advanced Techniques and Treatment Planning

#### **T KOTZE**

Diagnostic Radiology teaching and Radiation Protection

#### **N JOUBERT (WILLEMSE)**

Slot-scanning mammography  
Radiotherapy and Nuclear Medicine

#### **N BRUWER**

Access to Care Senior Researcher

### Technical Staff

#### **K BOTHA**

Chief Radiographer

### Mould Room

#### **S TOVEY**

Chief Radiographer

#### **M HENDRICKS**

Radiation Technologist

#### **M MANUEL**

Intern Radiation Technologist

### Mechanical Workshop

#### **RE HISCOCK**

Artisan

### Secretarial

#### **M NOBLE**

Senior Admin Clerk

## Contact Details

Postal Address: Division of Medical Physics,  
Groote Schuur Hospital/University of Cape Town,  
Observatory, 7925 Cape Town

Telephone: +27 21 404 6240

Fax: +27 21 404 6269

Email: [Hester.Burger@uct.ac.za](mailto:Hester.Burger@uct.ac.za)

Website: [http://www.health.uct.ac.za/fhs/departments/radiation\\_med/med\\_physics/about](http://www.health.uct.ac.za/fhs/departments/radiation_med/med_physics/about)

# Department of Radiation Medicine

## DIVISION OF RADIOLOGY

**Head of Division: Professor Stephen Beningfield**

### Divisional Profile

The Radiology Division works closely with clinical colleagues and their patients in all the major specialties and subspecialties throughout the hospitals, both in service and academic capacities. Groote Schuur's two multi-slice CT's and new 1.5T MRI and angiography units are heavily utilised, especially for neurological, vascular, musculoskeletal and thoraco-abdominal problems. There is also protected access to the new UCT research 3T MRI. Groote Schuur and Red Cross Hospitals are able to book PET-CT scans at Tygerberg Hospital, with joint Radiology and Nuclear Medicine reporting.

The Red Cross Radiology department has recently undergone extensive renovations, and make good use of their excellent MRI and CT scanners.

Both New Somerset and Mitchell's Plain Hospitals have their own CT scanners. Links with their radiologists are maintained, together with after-hours cover. Some of these radiologists rotate to Groote Schuur and Red Cross Hospitals to maintain expertise in advanced imaging. Sessional teaching occurs weekly at Victoria Hospital. The experience of our post-retirement sessional staff continues to benefit the Division.

Digital radiology, PACS and RIS is now fully established, allowing digital communication between the central and satellite hospitals.

There is continuing interest in supernumerary registrar posts both from within and outside the country.

## Divisional Statistics

### Permanent and Long-Term Contract Staff

#### UCT Staff

Professor and Head of Division	1
Administrative Staff	1
Digital imaging assistant part-time	1
<b>Total</b>	<b>3</b>

#### JMS Staff

Senior Lecturers	3
Lecturers	8
<b>Total</b>	<b>11</b>

#### Part-time JMS Staff

Emeritus Professor	1
Emeritus Associate Professors	2
<b>Total</b>	<b>3</b>

#### Students

Masters [registrars]	25
----------------------	----

## Research Fields and Staff

### PROFESSOR STEPHEN BENINGFIELD

Hepatobiliary and interventional radiology, and computer applications in radiology.

### ASSOC PROF SALLY CANDY

Neuroradiology (with a special interest in HIV-associated neuroimaging) and Magnetic Resonance Imaging

### DR NAZIR AHMED

Cross-sectional, head and neck, and colorectal imaging

### DR E BANDERKER

Paediatric Radiology

### DR RUFKAH GAMIELDIEN

Cross-sectional and breast imaging

### DR THARBIT HARTLEY

Hepatobiliary, vascular, interventional radiology

### **DR TRACY KILBORN**

Paediatric radiology

### **DR QONITA SAID-HARTLEY**

High-resolution chest imaging, image guided biopsies, chest radiology and cardiac CT. In collaboration with the departments of cardiology and cardiothoracic surgery she is responsible for specialist imaging required for Trans-catheter Aortic Valve replacement (TAVI). GSH is one of only a few centres in Africa offering this highly specialised service

### **DR NICOLE WIESELTHALER**

Paediatric radiology

## **Contact Details**

Postal Address: Division of Radiology, Room 16, C16, Groote Schuur Hospital and University of Cape Town, Private Bag, Observatory, 7935  
Telephone: +27 21 404 4184 or 406 6426  
Fax: +27 21 404 4185  
Email: [Steve.Beningfield@uct.ac.za](mailto:Steve.Beningfield@uct.ac.za)  
Website: [http://www.health.uct.ac.za/fhs/departments/radiation\\_med/radiology/about](http://www.health.uct.ac.za/fhs/departments/radiation_med/radiology/about)

## **RESEARCH OUTPUT**

### **Chapters in books**

Denny, L.A. and Van Wijk, A.L. 2015. Cervix. In B. O'Sullivan (ed), *Manual of Clinical Oncology*, pp. 449-466. 9<sup>th</sup> edition. UK: John Wiley and Sons, Ltd. ISBN 9781444332445.

### **Articles in peer-reviewed journals**

Adams, S., Ehrlich, R.I., Baatjies, R., Van Zyl Smit, R., Said-Hartley, Q.M., Dawson, R. and Dheda, K. 2015. Incidence of occupational latent tuberculosis infection in South African healthcare workers. *European Respiratory Journal*, 45: 1364-1373.

Allwood, B.W., Goldin, J., Said-Hartley, Q.M., Van Zyl-Smit, R., Calligaro, G.L., Esmail, A., Beyers, N. and Bateman, E.D. 2015. Assessment of previous tuberculosis status using questionnaires, chest X-rays and computed tomography scans. *International Journal of Tuberculosis and Lung Disease*, 19(12): 1435-1440.

Back, S.J., Andronikou, S., Kilborn, T.N., Kaplan, B.S. and Darge, K. 2015. Imaging features of tuberous sclerosis complex with autosomal-dominant polycystic kidney disease: a contiguous gene syndrome. *Pediatric Radiology*, 45: 386-395.

Bailey, S. and Parkes, J. 2015. Intracystic interferon therapy in childhood craniopharyngioma: who, when and how? *Clinical Endocrinology*, 82: 29-34.

Banderker, E., Pretorius, E. and De Decker, R. 2015. The role of cardiac CT angiography in the pre- and postoperative evaluation of tetralogy of Fallot. *SA Journal of Radiology*, 19(2): 899(9pp).

Bekker, L., Johnson, L.F., Wallace, M. and Hosek, S. 2015. Building our youth for the future. *Journal of the International AIDS Society*, 18: 20027(7pp).

Daire, A., Andronikou, S., Boutall, A.H., Constantatos, S., Stewart, C. and Candy, S. 2015. Evaluation of fetal MRI in a South African referral centre. *SAMJ South African Medical Journal*, 105(11): 930-933.

Davidson, A., Figaji, A.A., Pillay, K., Kilborn, T.N., Padayachy, L., Hendricks, M.K., Van Eyssen, A. and Parkes, J. 2014. Low grade gliomas. *Journal of Neuro-Oncology*, 16(Suppl 1): i60-i70.

Donald, K.A.M., Walker, K.G., Kilborn, T.N., Carrara, H.R.O., Langerak, N., Eley, B.S. and Wilmshurst, J. 2015. HIV encephalopathy: pediatric case series description and insights from the clinic coalface. *AIDS Research and Therapy*, 12: 2(10pp).

du Toit, J. and Wieselthaler, N. 2015. Let's face it – 13 unusual causes of facial masses in children. *Insights into Imaging*, 6: 519-530.

du Toit, J., Kilborn, T.N., Padayachy, L., Pillay, K. and Hendricks, M.K. 2015. Cystic hemispheric medulloepithelioma. *SA Journal of Radiology*, 19(2): 915(5pp).

du Toit, J., Kilborn, T.N., Van Eyssen, A. and Pillay, K. 2015. Orbital lymphomatoid granulomatosis – a rare cause of proptosis. *Pediatric Radiology*, 45: 1095-1098.

Elhassan, M.M.A., Wu, H. and Van Wijk, A.L. 2015. Epithelioid trophoblastic tumour: a report of two cases. *Southern African Journal of Gynaecological Oncology*, 7(1): 34-36.

Fleming, M.A., Westgarth-Taylor, T.L., Candy, S. and Dunn, R.N. 2015. How does pre-reduction MRI affect surgeons' behaviour when reducing distraction-flexion (dislocation) injuries of the cervical spine. *SA Orthopaedic Journal*, 14(4): 42-46.

Frigati, L.J., Maskew, M., Workman, L.J., Munro, J., Andronikou, S., Nicol, M.P. and Zar, H.J. 2015. Clinical predictors of culture-confirmed pulmonary tuberculosis in children in a high Tuberculosis and HIV prevalence area. *Pediatric Infectious Disease Journal*, 34(9): e206-e210.

Gray, C.L., Levin, M., Wieselthaler, N., Wood, R.J. and Wilson, G. 2015. Peri-anaesthetic anaphylaxis due to radiographic contrast medium: The role of

- intradermal testing in diagnosis and management. *Current Allergy & Clinical Immunology*, 28(3): 210-212.
- Hofmeyr, S., Krige, J.E.J., Bornman, P.C. and Beningfield, S.J. 2015. A cost analysis of operative repair of major laparoscopic bile duct injuries. *SAMJ South African Medical Journal*, 105(6): 454-457.
- Kilborn, T.N., Chu, W.C., Das, K.M., Laya, B.L. and Lee, E.Y. 2015. Current updates on HIV-related pulmonary disease in children: what do radiologists and clinicians need to know? *SA Journal of Radiology*, 19(2): 928(5pp).
- Kilborn, T.N., van Rensburg, P. and Candy, S. 2015. Pediatric and adult spinal tuberculosis: imaging and pathophysiology. *Neuroimaging Clinics of North America*, 25: 209-231.
- Lecuona, K., Stannard, C.E., Hart, G.J., Rice, J.C., Cook, C.D., Wetter, J.A. and Duffield, M. 2015. The treatment of carcinoma in situ and squamous cell carcinoma of the conjunctiva with fractionated strontium-90 radiation in a population with a high prevalence of HIV. *British Journal of Ophthalmology*, 99: 1158-1161.
- Maqungo, S., Kimani, M., Chhiba, D., McCollum, G.A. and Roche, S. 2015. The L5 transverse process fracture revisited. Does its presence predict the pelvis fracture instability? *Injury-International Journal of the Care of the Injured*, 46: 1629-1630.
- Naidoo, N.G., Navsaria, P.H., Beningfield, S.J., Natha, B., Cloete, N.J. and Gill, H. 2015. Stent graft repair of subclavian and axillary vascular injuries: the Groote Schuur experience. *South African Journal of Surgery*, 53(1): 5-9.
- Nicol, A., Navsaria, P.H., Beningfield, S.J., Hommes, M. and Kahn, D. 2015. Screening for occult penetrating cardiac injuries. *Annals of Surgery*, 261: 573-578.
- Padayachy, L., Kilborn, T.N., Carrara, H.R.O., Figaji, A.A. and Fieggen, A.G. 2015. Change in optic nerve sheath diameter as a radiological marker of outcome from endoscopic third ventriculostomy in children. *Childs Nervous System*, 31: 721-728.
- Parkes, J., Davidson, A., Figaji, A.A., Pillay, K., Kilborn, T.N., Padayachy, L., Hendricks, M.K. and Van Eyssen, A. 2014. Ependymoma. *Journal of Neuro-Oncology*, 16(Suppl 1): i17-i25.
- Parkes, J., Hendricks, M., Ssenyonga, P., Mugamba, J., Molyneux, E., Shouten-van Meeteren, A., Qaddoumi, I., Fieggen, A.G., Luna-Fineman, S., Howard, S., Mitra, D., Bouffet, E., Davidson, A. and Bailey, S. 2015. SIOP PODC adapted treatment recommendations for standard-risk medulloblastoma in low and middle income settings. *Pediatric Blood & Cancer*, 62: 553-564.
- Perks, T., Dendere, R., Irving, B., Hartley, T., Scholtz, P., Lawson, A.J., Trauernicht, C.J., Steiner, S.V.G. and Douglas, T.S. 2015. Filtration to reduce paediatric dose for a linear slot-scanning digital X-ray machine. *Radiation Protection Dosimetry*, 167(4): 552-561.
- Phillips, P., McGrath, E., Sekar, D., Sookhayi, R., Govender, D., Mohamed, Z., Zerbini, L.F. and Naidoo, R. 2015. MicroRNA 21 expression levels in HIV negative and HIV positive diffuse large B cell lymphoma. *Hereditary Genetics: Current Research*, 4(2): 1000143(4pp).
- Pitcher, R.D., Beningfield, S.J. and Zar, H.J. 2015. The chest X-ray features of chronic respiratory disease in HIV-infected children - a review. *Paediatric Respiratory Reviews*, 16: 258-266.
- Pitcher, R.D., Lombard, C., Cotton, M., Beningfield, S.J., Workman, L.J. and Zar, H.J. 2015. Chest radiographic abnormalities in HIV-infected African children: a longitudinal study. *Thorax*, 70: 840-846.
- Ramlakhan, R. and Candy, S. 2015. Traumatic rupture of an intracranial dermoid cyst. *Radiology Case Reports*, 10(1): 1-3.
- Ramlakhan, R. and Wieselthaler, N. 2015. Pearls in paediatric trauma neuroimaging reporting - what not to miss. *SA Journal of Radiology*, 19(2): 852(6pp).
- Robertson, B.M. 2015. Tinzaparin vs Warfarin for treatment of acute venous thromboembolism in patients with active cancer. A randomized clinical trial. *Jama-Journal of the American Medical Association*, 314(7): 677-686.
- van Toorn, R., du Plessis, A.-M., Schaaf, H., Buys, H., Hewlett, R.H. and Schoeman, J. 2015. Clinicoradiologic response of neurologic tuberculous mass lesions in children treated with thalidomide. *Pediatric Infectious Disease Journal*, 34(2): 214-218.
- Van Zyl Smit, R., Naidoo, J., Wainwright, H.C., Said-Hartley, Q.M., Davids, M., Goodman, H.T., Rogers, S. and Dheda, K. 2015. HIV associated Lymphocytic Interstitial Pneumonia: a clinical, histological and radiographic study from an HIV endemic resource-poor setting. *BMC Pulmonary Medicine*, 15: 38(7pp).
- Zar, H.J. and Andronikou, S. 2015. Chest x-rays for screening of paediatric PTB: child selection and standardised radiological criteria are key. *International Journal of Tuberculosis and Lung Disease*, 19(12): 1411.

# Department of Surgery

## Research Report 2015

Head of Department: Professor Del Kahn

## Departmental Profile

The Department of Surgery comprises the nine Divisions: General Surgery, Cardiothoracic Surgery, Emergency Medicine, Neurosurgery, Ophthalmology, Orthopaedics, Otorhinolaryngology, Plastic Surgery and Urology.

Each of the Divisions functions very independently with regard to administration, clinical service, undergraduate and postgraduate teaching, and research. The Special Clinical expertise, research interests, and outstanding achievements over the last year, are documented in the individual divisional profiles.

The Department of Surgery Research Day, organised by Dr Michael Held, was a most successful collaboration between the Divisions. Professor Donald Hudson delivered the John Terblanche Lecture.

# Department of Surgery

## DIVISION OF GENERAL SURGERY

Head of Division: Professor Del Kahn

## Divisional Profile

The six surgical firms within the Division of General Surgery are responsible for Hepatobiliary Surgery, Surgical Oncology/Endocrine Surgery, Colorectal Surgery, Upper GI Surgery, Acute Care Surgery and Vascular Surgery. The Surgical Intensive Care Unit, the Trauma Unit, and the Transplant Unit are also part of the Division.

The Division prides itself on maintaining high standards of clinical service, and teaching of both undergraduates and postgraduates. The Division continues to function as a true academic unit, with its members making significant contributions at both local and international meetings, while at the same time maintaining a high research output.

## Divisional Statistics

### Permanent and Long-Term Contract Staff

Professors	7
Senior Lecturers	13
Administrative Staff	6
<b>Total</b>	<b>26</b>

## Research Fields and Staff

### Permanent Staff (Full-Time)

#### PROFESSOR P NAVSARIA

Trauma Surgery

#### ASSOCIATE PROFESSOR A NICOL

Trauma Surgery

#### ASSOCIATE PROFESSOR P GOLDBERG

Colorectal Surgery

#### PROFESSOR EDUARD JONAS

Hepatobiliary Surgery

**ASSOCIATE PROFESSOR E PANIERI**

Surgical Oncology

**ASSOCIATE PROFESSOR E MULLER**

Transplantation

**DR M BERNON**

Hepatobiliary Surgery

**DR A BOUTALL**

Colorectal Surgery

**DR S BURMEISTER**

Hepatobiliary Surgery

**DR L CAIRNCROSS**

Surgical oncology

**DR GF MALHERBE**

Surgical Oncology

**DR G CHINNERY**

Upper Gastrointestinal Surgery

**DR JM DU TOIT**

Transplantation

**DR S EDU**

Trauma Surgery

**DR J KLOPPER**

Acute Care Surgery

**DR C KLOPPERS**

Acute Care Surgery

**DR NG NAIDOO**

Vascular Surgery

**DR S RAYAMAJHI**

Acute Care Surgery

**DR D THOMSON**

Critical Care

**DR C WARDEN**

Acute Care Surgery

**Contact Details**

Postal Address: Division of General Surgery,  
University of Cape Town, Groote Schuur Hospital,  
J45, Old Main Building, Observatory 7925

Telephone: +27 21 406 6475

Fax: +27 21 448 6461

Email: [melissa.mohamed@uct.ac.za](mailto:melissa.mohamed@uct.ac.za)

Website: <http://www.health.uct.ac.za/fhs/departments/surgery/general>

# Department of Surgery

## DIVISION OF OPHTHALMOLOGY

**Head of Division: Professor Colin Cook**

### Divisional Profile

The Division of Ophthalmology combines an academic hospital service with University teaching, clinical training and research.

Specialist tertiary care clinical services are provided to patients in the Western Cape and beyond.

Teaching is provided to fifth year medical students, and specialist training of both local graduates and graduates from other countries is provided.

A postgraduate diploma course in community eye health and a masters in public health with a community eye health track is provided for Vision 2020 programme managers working in sub Saharan Africa.

### Divisional Statistics

#### Permanent and Long-Term Contract Staff

Professors	1
Honorary professors	2
Associate Professors	1
Senior Lecturers	5
Lecturers	11
Administrative Staff	1
<b>Total</b>	<b>21</b>

#### Students

Masters	5
Postgraduate diploma	8
Undergraduate	187
<b>Total</b>	<b>200</b>

## Permanent Staff (Full-Time)

### **PROFESSOR C. COOK**

Professor and Head, Division of Ophthalmology, UCT Faculty of Health Sciences, Groote Schuur Hospital and Red Cross Children's Hospital. Community eye health, glaucoma.

### **ASSOCIATE PROFESSOR N. DU TOIT**

Consultant Specialist, Groote Schuur Hospital. Anterior segment surgery, glaucoma, ocular trauma.

### **DR K. LECUONA**

Consultant Specialist, Groote Schuur Hospital. Prevention of blindness in developing countries, lacrimal drainage disorders, inflammatory eye disease, ocular oncology.

### **DR T. POLLOCK**

Consultant Specialist, Red Cross Children's Hospital. Paediatric ophthalmology.

### **DR J. RICE**

Consultant Specialist, Groote Schuur Hospital. Vitreo-retinal disease.

### **DR J STEFFEN**

Consultant Specialist, Groote Schuur Hospital. Vitreo-retinal disease.

### **DR C. TINLEY**

Consultant Specialist, Red Cross Children's Hospital. Paediatric ophthalmology.

## Permanent Staff (Part-Time)

### **DR E. ALBRECHT**

Medical retina.

### **DR N COCKBURN**

Oculoplastics

### **DR J. DE VILLIERS**

Strabismus.

### **DR R. GROTTÉ**

Paediatric ophthalmology

### **DR D. HARRISON**

Oculoplastics

### **EMERITUS PROFESSOR A. MURRAY**

Strabismus.

### **DR A. PERROTT**

Glaucoma.

### **DR P. STEVEN**

Neuro-Ophthalmology.

### **DR K SUTTLE**

Surgical retina, oculoplastics.

### **DR H. VAN VELDEN**

Surgical retina.

## Honorary Staff

### **PROFESSOR P COURTRIGHT**

Epidemiologist. Director of Kilimanjaro Centre for Community Ophthalmology.

### **PROFESSOR S LEWALLEN**

Ophthalmologist. Director of Kilimanjaro Centre for Community Ophthalmology.

## Contact Details

Postal Address: Division of Ophthalmology, University of Cape Town Medical School, Observatory 7925  
Telephone: +27 21 406 6216  
Fax: +27 21 406 6218  
Email: [colin.cook@uct.ac.za](mailto:colin.cook@uct.ac.za)  
Website: <http://www.health.uct.ac.za/fhs/departments/surgery/overview/about>



# Department of Surgery

## DIVISION OF ORTHOPAEDIC SURGERY

**Head of Division: Professor Robert Dunn**

### Divisional Profile

The Division of Orthopaedic Surgery continued to provide secondary and tertiary Orthopaedic services to the Western Cape and surrounding communities organized in the following sub-units: Trauma, Hands, Acute Spine Injury Unit, Spine Surgery Unit, Upper limb unit, Lower Limb unit and Orthopaedic Oncology. This comprehensive service is made possible with the input from enthusiastic sessional staff from private practice, highlighting the benefits of public-private partnerships.

This platform provides an excellent training experience for our 17 PGWC and 3 supernumerary registrars and 5 clinical sub-specialist privately funded fellows.

We continue to increase our elective surgical outputs with public-private collaboration and additional operating lists. This has significantly improved our arthroplasty outputs with a positive impact on the waiting lists.

Our research capacity has been enhanced with the establishment of the Orthopaedic Research Unit (ORU) under the directorship of Dr Michael Held. We held the first Orthopaedic Research Day with local and international collaboration.

Clinical outreach was provided to Vredendal, Vredenburg, Eben Donges, Mitchell's Plain and Victoria Hospitals was provided.

There was ongoing interaction with local sub-specialists to provide sessional support in service and training.

We were re-accredited as an AOSpine reference centre facilitating visits from abroad and funding to train local spine surgeons. We continue to run Arthroplasty and Upper Limb fellowship programs funded by private sources.

### Divisional Statistics

#### Permanent and Long-Term Contract Staff

Professors	2
Consultants (GSH)	7
Consultants (RXH)	2
<b>Total</b>	<b>11</b>

#### Students

MMed (registrars)	19
MSc	3
MBChB (5 year module)	220
<b>Total</b>	<b>242</b>

### Research Fields and Staff

The Orthopaedic Research Unit (ORU) was established under the directorship of Dr Michael Held to consolidate our research into themes and allow a more co-ordinated approach.

[www.oru.uct.ac.za](http://www.oru.uct.ac.za)

#### PROFESSOR ROBERT DUNN

Pieter Moll and Nuffield Chair and HOD  
Spine infection, deformity and trauma

#### ASSOCIATE PROFESSOR STEVE ROCHE

Deputy HOD, Head of Adult Reconstructive Unit  
Upper limb, student education, outcomes scoring

#### DR MICHAEL SOLOMONS

Head: Hand Unit  
Hand infection, trauma, reconstruction

#### DR GRAHAM MCCOLLOM

Consultant  
Foot and Ankle / General Trauma

#### DR DIX-PEEK

HOCU: Paediatric Orthopaedics  
Paediatric trauma and reconstruction

#### DR NICHOLAS KRUGER

HOCU: Acute spine injury Unit  
Spine trauma, general trauma

#### DR SITHOMBO MAQUNGO

HOCU: Orthopaedic Trauma Surgery  
Pelvic / acetabular reconstruction and general trauma / Osteoporosis

### **DR MARITZ LAUBSCHER**

Consultant  
Lower limb deformity / trauma /sepsis

### **DR MARC NORTJE**

HOCU: Lower limb arthroplasty  
Hip and knee joint reconstruction

## **Contact Details**

Postal Address: Division of Orthopaedic Surgery,  
University of Cape Town, Medical School,  
Groote Schuur Hospital, H49 Old Main Building,  
Observatory, 7925  
Telephone: +27 21 404 5108  
Email: [bernadette.priest@uct.ac.za](mailto:bernadette.priest@uct.ac.za)  
Website: <http://orthopaedics.uct.ac.za/> and [www.oru.uct.ac.za](http://www.oru.uct.ac.za)

# **Department of Surgery**

## **DIVISION OF EMERGENCY MEDICINE**

**Head of Division: Professor Lee Wallis**

### **Divisional Profile**

Emergency Medicine is run as two academic Divisions (at UCT and SU) but has a single Head. The Division utilises various academic and satellite hospitals for the purposes of teaching and research; these include: Groote Schuur, Red Cross War Memorial Children's, Victoria, GF Jooste, Paarl, and New Somerset hospitals. The types of patients seen and emergencies treated vary among hospitals, allowing our MMed students to become fully competent Emergency Medicine specialists.

The Division places an emphasis on post graduate programmes, with 20 PhD, 10 MSc, and over 50 MPhil students. In 2015, the Division produced 30 publications in peer-reviewed journals and contributed to 5 book chapters. The Division's research has been focused in the following areas: emergency care systems, emergency ultrasound, pre-hospital care and disaster medicine, and mHealth.

The Division has 1 Professor and 2 Senior Lecturers, plus joint and honorary staff; we have a Research Coordinator between SU and UCT. There are 9 honorary lecturers at SU and an additional 10 honorary lecturers at UCT. We have a permanent secretary and web resources manager.

### **Achievements**

Faculty members in the academic division currently hold a number of international and national leadership positions within Emergency Medicine including:

- President International Federation for Emergency Medicine (Prof L Wallis)
- President African Federation for Emergency Medicine (Dr H Geduld)
- President: Emergency Medicine Society of South Africa (Dr R Dickerson)
- College of Emergency Medicine President (Dr R Dickerson), Secretary (Dr H Geduld) and 3 elected members of Council (Dr A Kropman, Dr K Vallabh and Dr S Lahri)

- African Journal of Emergency Medicine Editors-in-chief (Dr SR Bruijns and Prof L Wallis) and editorial board members (Dr M Stander, Dr R Dickerson, Dr W Smith, Dr H Lamprecht and Dr K Cohen)

## Divisional Statistics

### Permanent and Long-Term Contract Staff

Professor	1
Senior Lecturers	2
Research Staff	1
<b>Total</b>	<b>4</b>

### Honorary Staff

Honorary Lecturers	<b>10</b>
--------------------	-----------

### Students

PhD	20
MMed / College	16 (&16 Stellenbosch)
MMed supernumerary	6 (& 6 Stellenbosch)
MPhil	50
MSc	10
Undergraduate	3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> and 6 <sup>th</sup> years

## Contact Details

Postal Address: Division of Emergency Medicine, University of Cape Town, Medical School, Groote Schuur Hospital, J46 Old Main Building, Observatory, 7925

Telephone: +27 21 944 9226

Email: [aileen.maas@uct.ac.za](mailto:aileen.maas@uct.ac.za)

Website: [www.emct.info](http://www.emct.info)

## Research Fields and Staff

### Permanent Staff

#### **PROFESSOR LEE A. WALLIS**

Head of Division (UCT, SU & WCG)

Emergency care systems, triage, health policy

#### **DR HEIKE I. GEDULD**

Head of Education (UCT & WCG)

Medical education

#### **DR TYSON B. WELZEL**

MPhil Programme Convenor

Access to care, triage

#### **DR STEVAN R. BRUIJNS**

PhD Programme Convenor

Triage, trauma

# Department of Surgery

## DIVISION OF NEUROSURGERY

**Head of Division: Professor Graham Fieggen**

### Divisional Profile

The Division of Neurosurgery of the University of Cape Town is based at Groote Schuur Hospital and Red Cross Childrens Hospital, for adult and paediatric neurosurgery respectively. It provides a comprehensive neurosurgical service for patients from the Western Cape region of South Africa, but also treats patients referred from other parts of the country and further afield in Africa.

Registrars are trained here in all aspects of neurosurgery, with a particular emphasis on disorders common in a developing world context, while maintaining an international standard of excellence, supported by modern technology and worldwide collaborations. Trainees are exposed not only to general neurosurgical practice but also to a wide spectrum of subspeciality interests by experienced staff of international calibre. During their training, registrars are also equipped with the skills, and exposed to the opportunities, for research in a strong academic environment. The division is also committed to the training of doctors from other parts of the continent to enable them to return to their countries with much-needed skills.

Finally, the department has fostered a strong relationship with local neurosurgeons in private practice to ensure the best care of all patients, whether in a public or private healthcare context, to exposure trainees to all aspects of pathology and treatment, and to maintain the association of the local neurosurgical community.

## Divisional Statistics

### Permanent and Long-Term Contract Staff

Professor (HODiv)	1
Professor (HOCU)	2
Consultants Full time	8
Consultants Sessional Posts	6
Registrars	10
Medical Officers	2
Research Staff	1
Admin Staff	1
<b>Total</b>	<b>31</b>

## Research Fields and Staff

### Permanent Staff (Full time)

#### PROFESSOR GRAHAM FIEGGEN

Professor and Head, Division of Neurosurgery, UCT Faculty of Health Sciences, Groote Schuur Hospital and Red Cross Children's Hospital: Paediatric Neurosurgery and Epilepsy and functional neurosurgery.

#### PROFESSOR PATRICK SEMPLE

Head of Clinical Unit and Head of Firm Groote Schuur Hospital: Pituitary surgery, Neuroendoscopic surgery and Neurointensive care.

#### PROFESSOR ANTHONY FIGAJI

Head of Paediatric Neurosurgery Unit and Head of Firm Red Cross Children's Hospital: Paediatric Neurosurgery, Neurotrauma, Neurocritical care and Intraoperative Neurophysiology.

#### ASSOCIATE PROFESSOR ALLAN TAYLOR

Head of Neurovascular Unit and Head of Firm Groote Schuur Hospital: Cerebrovascular surgery, Neurointervention, Skull Base surgery and Radiosurgery.

#### ASSOCIATE PROFESSOR DAVID LE FEUVRE

Consultant Neurosurgeon Neurovascular Unit, Groote Schuur Hospital and MBChB Convener: Cerebrovascular surgery, Neuro-intervention and Neuro-oncology, Skull Base surgery and glioma surgery.

#### DR SALLY ROTHMEYER

Consultant Neurosurgeon, Groote Schuur Hospital: Functional Neurosurgery (Epilepsy, pain and movement disorders) Neurooncology, Neuroendoscopy, Multidisciplinary Rehab Clinic and NeuroHIV.

### **DR LLEWELLYN PADAYACHY**

Consultant Neurosurgeon, Red Cross Children's Hospital: Paediatric Neurosurgery, Paediatric Neurosurgery Craniofacial and Paediatric cerebrovascular disease.

### **DR CRISPIN THOMPSON**

Consultant Neurosurgeon, Groote Schuur Hospital: Spine surgery particularly Traumatic, degenerative, infective and tumor.

### **DR NICO ENSLIN**

Consultant Neurosurgeon, Groote Schuur Hospital and Red Cross Children's Hospital: Paediatric and functional neurosurgery.

### **Researchers**

Dr Nelleke Langerak: Senior Research Officer

Dr Ursula Rohlwink: Postdoctoral Researcher

### **Contact Details**

Postal Address: Division of Neurosurgery, H-53, Old Main Building, Groote Schuur Hospital, Observatory, 7925, South Africa

Telephone: +27 21 406 6213

Fax: +27 21 406 6555

Email: [vuyiwe.bathaka@uct.ac.za](mailto:vuyiwe.bathaka@uct.ac.za)

Website: [www.neurosurgery.uct.ac.za](http://www.neurosurgery.uct.ac.za)

# **Department of Surgery**

## **DIVISION OF UROLOGY**

**Head of Division: Associate Professor John Lazarus**

### **Divisional Profile**

The Division of Urology renders a urological service to Groote Schuur Hospital, Red Cross War Memorial Children's Hospital and Somerset Hospital. An operating list is done once per week at Eerste river Hospital, operating on Groote Schuur Hospital patients.

A Prof John Lazarus is head of Paediatric Urology at Red Cross Hospital and Dr Lisa Kaestner attends Somerset Hospital for ward rounds and outpatients. The operating list at Eerste River Hospital is done by a Senior Registrar assisted by Professor Johan Naudé (ex head of Division of Urology).

Undergraduate teaching is provided to 6<sup>th</sup> year medical students, who do a two week block in Urology. Postgraduate training is provided to Urology Registrars and also to supernumerary registrars. The members of our division make significant contributions at both local and international meetings. A number of our members have attended instructional courses both locally and overseas. The Division has maintained its productivity despite staff shortages and the financial crisis.

The Division is involved with two combined clinics - Urological Oncology Clinic (with Radiation Oncologists) and Female Continence Clinic (with Gynaecologists). We run a number of other specialised clinics - Adolescent Spinal Defects Clinic, Haematuria Clinic, Stricture Clinic, Erectile Dysfunction Clinic, Reconstructive Urology Clinic and Metabolic Stone Clinic.

## Divisional Statistics

### Permanent and Long-Term Contract Staff

Principal Lecturer	1
Senior Lecturers	3
Administrative	1
Sessional Senior Lecturers	3
<b>Total</b>	<b>8</b>

### Students

MMed	5
Undergraduate (6 <sup>th</sup> years)	187
<b>Total</b>	<b>192</b>

## Research Fields and Staff

### PROFESSOR J LAZARUS

All aspects of Paediatric Urology; Surgical Treatment of Renal Calculi

### DR S SINHA

Widening indications for laparoscopic surgery in urology; double J stent insertion under local anaesthetic; radical cystectomy and extended pelvic lymphadenectomy

### DR L KAESTNER

Prostate cancer; Renal Transplantation; Urogynaecology

## Contact Details

Postal Address: Division of Urology, Area E26, New Groote Schuur Hospital, Anzio Road, Observatory, 7925

Telephone: +27 21 406 6105

Fax: +27 21 406 6122

Email: [info@urology.uct.ac.za](mailto:info@urology.uct.ac.za) /

[shene.isaacs@uct.ac.za](mailto:shene.isaacs@uct.ac.za)

Website: [www.urology.uct.ac.za](http://www.urology.uct.ac.za)

# Department of Surgery

## DIVISION OF OTOLARYNGOLOGY

(Including Red Cross War Memorial Children's and New Somerset Hospitals)

**Head of Division: Professor Johannes Fagan**

## Divisional Profile

The Division of Otolaryngology combines an academic hospital clinical service with university teaching, training and clinical research. It provides specialist clinical services to patients in the Western Cape and beyond. Its university responsibilities include in-hospital and community-based training of 5<sup>th</sup> year medical students and specialist training of both local graduates and graduates from other countries. An outreach programme to outlying towns in the Western Cape supplements the training of students and primary health care workers in the fundamentals of ear care.

We continue to provide specialist training to supernumerary registrars from other African countries, always having 3-4 such trainees on our staff. We recently trained our 10<sup>th</sup> *UCT Karl Storz Fellow in Advanced Head and Neck Surgery* from Zimbabwe. Previous fellows are from Senegal, Nigeria, Ghana (2), Kenya, Uganda, Malawi, Rwanda and Tanzania. All have returned to teaching hospitals in their home countries. This fellowship training, the only such training in Africa, has made a significant contribution to the quality of head and neck care in Sub-Saharan Africa, and strengthened UCT's connections with other African countries. A new fellowship programme in rhinology and sinus surgery was commenced under the leadership of A-Prof Darlene Lubbe in 2015. This is the only such fellowship in Sub-Saharan Africa.

## Divisional Statistics

### Permanent and Long-Term Contract Staff

Professors	1
Associate Professors	1
Lecturers	5
Lecturers (part-time)	6
Audiologists	3
Admin Support	1
<b>Total</b>	<b>17</b>

### Students

Masters	9
Undergraduate	220
Karl Storz Fellow in advanced Head & Neck Surgery	1
Karl Storz Fellow in Sinus and anterior skull base surgery	1
<b>Total</b>	<b>231</b>

## Research Fields and Staff

### Permanent Staff

#### PROFESSOR JJ FAGAN

Major interest in Advance Head and Neck surgery in Africa and the Developing World.

#### ASSOCIATE PROFESSOR D LUBBE

Main interests in Rhinology and Skull Base Surgery. Tumours involving the sinonasal cavity, orbit and anterior skull base.

#### DR GJ COPLEY

Expertise in Paediatric ENT with interests in hearing screening in neonates and children.

#### DR T HARRIS

Has a special interest in Otology, Neurotology and Lateral skull base surgery.

#### DR E MEYER

ENT specialist with a specific interest in endoscopic ear surgery, vestibular problems and BAHA surgery.

#### DR S PEER

Has a special interest in paediatric airways – endoscopic and open approaches to complex airway diseases in children.

#### DR O EDKINS

Clinical interests are in General ENT with a special interest in Sialendoscopy and Salivary gland disease.

### Contact Details

Postal Address: Division of Otolaryngology, Faculty of Health Sciences, Anzio Road, Observatory, 7925  
Telephone: +27 21 406 6420  
Fax: +27 21 448 8865  
Email: [ferhana.hassen@uct.ac.za](mailto:ferhana.hassen@uct.ac.za)  
Website: [www.entdev.uct.ac.za](http://www.entdev.uct.ac.za)

# Department of Surgery

## CHRIS BARNARD DIVISION OF CARDIOTHORACIC SURGERY

**Head of Division: Professor Peter Zilla**

### Divisional Profile

The Division continues to offer the full range of adult and paediatric cardiac and thoracic surgery services, catering to all forms of congenital heart disease, myocardial revascularisation, cardiac valvular repair and replacement surgery as well as thoracic aortic surgery and heart transplantation.

The Division's transcatheter valve programme is now firmly established and the development of low cost TAVI solutions, appropriate to Sub-Saharan Africa, is being conducted by Strait Access Technology, a UCT startup company based within the Division's Cardiovascular Research Unit. This initiative includes collaboration with the medical device industry and international academic units. Preclinical testing of prototype designs commenced in 2014 and 2015 saw proof of concept of deploying a replacement valve in a beating heart being achieved. Application for funding, additional to the 33 million Rand secured in 2014, is already well underway and anticipated in 2016.

Minimally invasive/minimum access procedures are well established with the number of mitral valve procedures approaching 70 cases. The first minimally invasive aortic valve replacement in South Africa is anticipated in 2016. Construction of a 'hybrid' operating theatre is nearly complete, although funding of imaging and other equipment is still being sourced.

The Paediatric subdivision at Red Cross Children's Hospital held a week of staff training in May as part of its Extracorporeal Membrane Oxygenation (ECMO) project with visiting experts from Leicester and Birmingham in the UK. The tender for an ECMO machine was approved and a pilot clinical ECMO program anticipated for 2016.

In collaboration with the Department of Paediatric Cardiology, funding was obtained for the establishment of a new Digital Patient Management system to collate all patient data for both cardiology and cardiothoracic surgery, which will greatly streamline planning of surgery as well as representing an invaluable research tool.

Walter Sisulu Paediatric Cardiac Foundation funding allowed the establishment of an extra operating list. This program was only initiated in November 2015 but promises to have a significant impact in subsequent years. Already, more cases were performed in 2015 than previously.

The adult thoracic operating repertoire has been expanded to offer a broader base of treatment options for the community greater facilitated by the recent addition of video equipment for thoracoscopic, airway and upper GIT endoscopy work.

Within the Division's Cardiovascular Research Unit, funding sources included the MRC (Competitive Programme for Rated Researchers and self-initiated research grants), bilateral (SA/India), Blue Skies and incentive funding from the National Research Foundation, the International Centre for Genetic Engineering and Biotechnology and the Royal Society. Application for the establishment of an MRC-funded Cardiovascular Research Centre of Excellence is also being sought.

The Biomaterials Group focused on drug and gene delivery from biomimetic hydrogel matrices and electrospun scaffolds for use in myocardial infarction and vascular graft applications. New collaborations were also initiated with Cambridge University on smart materials, and with ETH Zurich on the mechanics of materials used in transcatheter and tissue engineered heart valves. The Regenerative Medicine Group continued its focus on the treatment of myocardial infarction through therapeutic hydrogel delivery to the heart. In addition to very good results obtained in collaboration with an international collaborator into stem cell delivery, the group is investigating the delivery of genetic material (micro and silencing RNA) via injection of specifically formulated, in situ forming matrices. The Pathobiology group continued to research the possible role played by the response to residual bacterial antigen, present in abattoir-sourced pericardial tissue used in the fabrication of commercial bioprosthetic heart valves, in the subsequent mineralisation of the tissue. Evidence was obtained which suggested that non-enteric bacterial antigen, possibly teichoic acid, is implicated.

The Divisional Review undertaken in 2015 recognized the Division's social responsiveness and outreach efforts to the rest of South Africa and Africa, including Nigeria, Zambia, and Namibia and its commitment to facilitate surgical units in Maputo, Dar-es-Salaam, Lusaka, Zimbabwe, and Nigeria. The low volume of operative work, imposed by provincial financial constraints, was recognized to impede sufficient "teaching" cases for registrar training although research was reported to represent a very strong focus of the Division.



## Divisional Statistics

### Permanent and Long-Term Contract Staff

Professor	1
Associate Professors	5
Assistant Director	1
Senior Consultants	3
Senior Sessionists	3
Supernumerary Registrars	1
Surgical Registrars	3
Surgical Rotator	1
Secretaries	2
Senior Medical Technologist	1
Clinical Technologist/Perfusionists	7
<b>Total</b>	<b>28</b>

### Students and Postdoctoral Fellows

Postdoctoral Fellows	3
Doctoral	6
M.Med	5
Masters	10
Honours	8
<b>Total</b>	<b>32</b>

## Staff

### Permanent Staff

#### **PROFESSOR PETER ZILLA**

Head of Division

#### **ASSOCIATE PROFESSOR JOHAN BRINK**

Clinical Director

#### **DR PAUL HUMAN**

Research Director, Section Head Pathobiology

#### **ASSOCIATE PROFESSOR JOHN HEWITSON**

Section Head: Paediatric Surgery

#### **ASSOCIATE PROFESSOR ANTHONY LINEGAR**

Section Head: Thoracic Surgery

#### **ASSOCIATE PROFESSOR DEON BEZUIDENHOUT**

Senior Lecturer, Section Head Polymer Sciences

#### **ASSOCIATE PROFESSOR NEIL DAVIES**

Senior Lecturer, Section Head Biology and Regeneration

#### **DR ANDRE BROOKS**

Senior Consultant

#### **DR JACQUES SCHERMAN**

Senior Consultant

#### **DR TIMOTHY PENNEL**

Senior Consultant

## Contact Details

Postal Address: Chris Barnard Division of Cardiothoracic Surgery, D24, New Groote Schuur Hospital, Anzio Road, Observatory, 7925, Cape Town, South Africa

Telephone: +27 21 406 6181

Fax: +27 21 448 1145

Website: <http://www.cts.uct.ac.za>

## Cardiovascular Research Unit

Postal Address: Room 3.13, Chris Barnard Building, Faculty of Health Sciences, University of Cape Town, Anzio Road, Observatory 7925, Cape Town, South Africa

Telephone: +27 21 406 6476/6385

Fax: +27 21 448 5935

Website: [http://www.cts.uct.ac.za/Cardiovascular\\_Research](http://www.cts.uct.ac.za/Cardiovascular_Research)

# Department of Surgery

## DIVISION OF PLASTIC SURGERY

**Head of Division: Professor Donald Hudson**

### Divisional Profile

The Division of Plastic Surgery combines an academic hospital service, with university teaching, clinical training and research. The division also functions at Red Cross Children's Hospital and pressures sores are dealt with at Eerste River Hospital. Specialist tertiary services are provided to patients of the Western Cape and beyond.

The Department is actively involved in a number of multidisciplinary which include:

1. head and neck cancer clinic
2. skin cancer clinic
3. melanoma clinic
4. transsexual clinic
5. combined breast clinic

Multi-disciplinary clinics at Red Cross Children Hospital include:

1. Cleft lip and palate clinic
2. Inter sex clinic
3. Cranio facial clinic
4. Congenital ear clinic
5. Congenital hand clinic

Teaching is provided to fifth year medical students PAMS, and specialist training of post graduates is undertaken - including supernumerary registrars from other countries. The Department is actively involved in research in all aspects of Plastic Surgery, including paediatric Plastic Surgery.

The Department enjoys a strong partnership with colleagues in private practise. These part time surgeons provide valuable input to the Department both in teaching and in clinical services.

Prof DA Hudson was awarded a FACS and serves on the editorial board of

## Plastic & Reconstructive Surgery

Dr K Adams has been active in advancing the care of the intersex patient.

Dr S Adams has successfully conducted a number of SMILE weeks at

Red Cross Hospital- and also hosted an international leader in the field of Burns.

2 Registrars passed their final exams.

The Division continued to conduct research in breast reconstruction, complex wounds, paediatric plastic surgery, microsurgery and buns and a number of publications emanated from this.

### Permanent and Long-Term Contract Staff

Professors	1
Senior Lecturers	2
Lecturers	10
Administrative Staff	1
<b>Total</b>	<b>14</b>

### Students

PhD	1
Masters	6
<b>Total</b>	<b>7</b>

## Research Fields and Staff

### PROFESSOR D.A. HUDSON

Breast Reconstruction; Wound Healing; Burns.

### DR K. ADAMS

Management of complex wounds, Transsexual Surgery, Burns

### DR S. ADAMS

Cleft Lip Palate; Lower leg Reconstruction, Burns

## Contact Details

Postal Address: Department of Plastic, Reconstructive & Maxillo-Facial Surgery, Room H53/69, Old Main Building, Groote Schuur Hospital, Observatory, 7925, South Africa.  
Telephone: +27 21 406 6415  
Fax: +27 21 406 6649

Email: [rabia.alexander@uct.ac.za](mailto:rabia.alexander@uct.ac.za)  
Website: <http://www.health.uct.ac.za/fhs/departments/surgery/overview/about>

## RESEARCH OUTPUT

### Chapters in books

Geduld, H. 2015. How to manage poisoning or toxic exposure. In B. Mash and J. Blitz (eds), *South African Family Practice Manual Volume 3*, pp. 314-314. 3<sup>rd</sup> edition. SA: Van Schaik Publishers. ISBN 9780627031236.

McCullum, G. 2015. Management of cystic osteochondral lesions of the Talus. In G.L. Canata and N. van Dijk (eds), *Cartilage Lesions of the Ankle*, pp. 53-65. UK: Springer. ISBN 9783662463314.

Solomons, M.W. 2015. Tendon transfers. In I.A. Tail and A.N.M. Fleming (eds), *Disorders of the Hand Volume 2: Hand Reconstruction and Nerve Compression*, pp. 33-55. 2<sup>nd</sup> edition. London: Springer Heidelberg New York Dordrecht London. ISBN 9781447165590.

### Articles in peer-reviewed journals

Adeola, H., Soares, N., Paccez, J.D., Kaestner, L.A., Blackburn, J. and Zerbini, L.F. 2015. Discovery of novel candidate urinary protein biomarkers for prostate cancer in a multethnic cohort of South African patients via label-free mass spectrometry. *Proteomics Clinical Applications*, 9: 597-609.

Anley, C., Vrettos, B.C., Roche, S. and Solomons, M.W. 2014. A glomus tumour of the elbow: a case report and review of the literature. *Shoulder and Elbow*, 6: 60-62.

Antel, K.R., Panieri, E. and Novitzky, N. 2015. Role of splenectomy for immune thrombocytopenic purpura (ITP) in the era of new second-line therapies and in the setting of a high prevalence of HIV-associated ITP. *SAMJ South African Medical Journal*, 105(4): 408-412.

Bain, G.I., Clitherow, H., Millar, S., Fraysse, F., Costi, J.J., Eng, K., McGuire, D.T. and Thewlis, D. 2015. The effect of lunate morphology on the 3-dimensional kinematics of the carpus. *Journal of Hand Surgery-American Volume*, 40(1): 81-89.

Bain, G.I., Eng, K., Lee, Y., McGuire, C.I. and Zumstein, M. 2015. Reconstruction of chronic foveal TFCC tears with an autologous tendon graft. *Journal of Wrist Surgery*, 4: 9-14.

Bateman, K.J., Rogers, C. and Meyer, E. 2015. An approach to acute vertigo. *SAMJ South African Medical Journal*, 105(8): 694-695.

Bezuidenhout, D., Williams, D.F. and Zilla, P. 2015. Polymeric heart valves for surgical implantation, catheter-based technologies and heart assist devices. *Biomaterials*, 36: 6-25.

Bomela, L. and Dunn, R.N. 2015. Gunshot face as a cause of hyperextension central cord syndrome in a young patient. *SA Orthopaedic Journal*, 14(1): 34-39.

Booley, M.R. and Welzel, T.B. 2015. A cross-sectional analysis of the short-term outcomes of patients receiving prehospital treatment for symptomatic hypoglycaemia in Cape Town. *African Journal of Emergency Medicine (AfJEM)*, 5: 159-164.

Botes, S.N., Ibirigba, S., McCallum, A. and Kahn, D. 2015. Schistosoma prevalence in appendicitis. *World Journal of Surgery*, 39: 1080-1083.

Botes, S.N., Ibirigba, S.B. and Kahn, D. 2015. Schistosomiasis misdiagnosed as abdominal tuberculosis. *SAMJ South African Medical Journal*, 105(2): 156.

Botha, J. and Thomson, S.R. 2015. The Chicago classification simplified. *The South African Gastroenterology Review*, 2: 19-22.

Broccoli, M.C., Calvello, E., Skog, A.P., Wachira, B.W. and Wallis, L.A. 2015. Perceptions of emergency care in Kenyan communities lacking access to formalised emergency medical systems: a qualitative study. *BMJ OPEN*, 5: e009208(8pp).

Calligaro, G.L., Theron, G., Khalfey, H., Peter, J., Meldau, R., Matinyenya, B., Davids, M., Smith, L., Pooran, A., Lesosky, M., Esmail, A., Miller, M., Piercy, J.L., Michell, W.L., Dawson, R., Raine, R.I., Joubert, I. and Dheda, K. 2015. Burden of tuberculosis in intensive care units in Cape Town, South Africa, and assessment of the accuracy and effect on patient outcomes of the Xpert MTB/RIF test on tracheal aspirate samples for diagnosis of pulmonary tuberculosis: a prospective burden of disease study with a nested randomised controlled trial. *Lancet Respiratory Medicine*, 3: 621-630.

Calvello, E., Skog, A.P., Tenner, A.G. and Wallis, L.A. 2015. Applying the lessons of maternal mortality reduction to global emergency health. *Bulletin of the World Health Organization*, 93: 417-423.

Dachs, R.P., Fleming, M.A., Chivers, D., Carrara, H.R.O., du Plessis, J.P., Vrettos, B.C. and Roche, S. 2015. Total elbow arthroplasty: outcomes after triceps-detaching and triceps-sparing approaches. *Journal of Shoulder and Elbow Surgery*, 24: 339-347.

- Dachs, R.P., Vrettos, B.C., Chivers, D., du Plessis, J.P. and Roche, S. 2015. Outcomes after ulnar nerve in situ release during total elbow arthroplasty. *Journal of Hand Surgery-American Volume*, 40(9): 1832-1837.
- Dalwai, E. and Buccimazza, I. 2015. System delays in breast cancer. *South African Journal of Surgery*, 53(2): 40-42.
- Dalwai, M.K., Tayler-Smith, K., Twomey, M. and Wallis, L.A. 2015. Developing a reference standard for assessing paediatric triage scales in resource poor settings. *African Journal of Emergency Medicine (AfJEM)*, 5: 181-184.
- Davidson, A., Figaji, A.A., Pillay, K., Kilborn, T.N., Padayachy, L., Hendricks, M.K., Van Eyssen, A. and Parkes, J. 2014. Low grade gliomas. *Journal of Neuro-Oncology*, 16(Suppl 1): i60-i70.
- Davies, F.C., Cheema, B. and Carley, S.D. 2015. Innovation in the field of medical-conference-based education: a new marketplace. *Emergency Medicine Journal*, 32(10): 756-758.
- De Villers Marais, C., Mears, S., Dix-Peek, S., Pillay, K. and Dunn, R.N. 2015. Pantoaea agglomerans as a rare cause of cervical spondylodiscitis. *SA Orthopaedic Journal*, 14(1): 40-43.
- Delmonico, F., Martin, D., Dominguez-Gil, B., Muller, E., Jha, V., Levin, A., Danovitch, G.M. and Capron, A.M. 2015. Living and deceased organ donation should be financially neutral acts. *American Journal of Transplantation*, 15: 1187-1191.
- Delpont, C.D., Hodgkinson, P. and Cheema, B. 2015. Investigation and management of foreign body ingestion in children at a major paediatric trauma unit in South Africa. *African Journal of Emergency Medicine (AfJEM)*, 5: 176-180.
- Di Saverio, S., Tarasconi, A., Inaba, K., Navsaria, P.H., Coccolini, F., Costa Navarro, D., Mandrioli, M., Vassiliu, P., Jovine, E., Catena, F. and Tugnoli, G. 2015. Open abdomen with concomitant enteroatmospheric fistula: attempt to rationalize the approach to a surgical nightmare and proposal of a clinical algorithm. *Journal of the American College of Surgeons*, 220(3): e23-e33.
- Donald, K.A.M., Walker, K.G., Kilborn, T.N., Carrara, H.R.O., Langerak, N., Eley, B.S. and Wilmshurst, J. 2015. HIV encephalopathy: pediatric case series description and insights from the clinic coalface. *AIDS Research and Therapy*, 12: 2(10pp).
- Dos Passos, G., Rogers, A.D., Price, C., Pienaar, C.H., Van Zyl, J.E., Fagan, J.J. and Hudson, D. 2015. Loupe magnification for head and neck free flap reconstruction in a developing country. *European Journal of Plastic Surgery*, 38: 363-370.
- du Toit, J., Kilborn, T.N., Padayachy, L., Pillay, K. and Hendricks, M.K. 2015. Cystic hemispheric medulloepithelioma. *SA Journal of Radiology*, 19(2): 915(5pp).
- Du Toit, N., Mustak, H. and Cook, C.D. 2015. Visual outcomes in patients with open globe injuries compared to predicted outcomes using the ocular trauma scoring system. *International Journal of Ophthalmology*, 8(6): 1229-1233.
- Duke, R., Lewallen, S. and Courtright, P. 2015. Estimated prevalence of monocular blindness and monocular severe visual impairment in children of cross rivers state, Nigeria. *Nigerian Journal of Ophthalmology*, 22(2): 66-68.
- Dunn, R., Der Horst, A. and Lippross, S. 2015. Tuberculosis of the spine – prospective neurological and patient reported outcome study. *Clinical Neurology and Neurosurgery*, 133: 96-101.
- Dusterwald, K., Kruger, N. and Dunn, R.N. 2015. Tracheostomy, ventilation and anterior cervical surgery: timing and complications. *South African Journal of Surgery*, 53(3&4): 51-55.
- Ede, C., Sobnach, S., Kahn, D. and Bhyat, A. 2015. Enterohepatic migration of fish bone resulting in liver abscess. *Case Reports in Surgery*, 2015: 238342(2pp).
- Edlow, J.A., Figaji, A.A. and Samuels, O. 2015. Emergency neurological life Support: subarachnoid hemorrhage. *Neurocritical Care*, 23(Suppl 2): S103-S109.
- Fleming, M.A., Dachs, R.P., Maqungo, S., du Plessis, J.P., Vrettos, B.C. and Roche, S. 2015. Angular stable fixation of displaced distal-third clavicle fractures with superior precontoured locking plates. *Journal of Shoulder and Elbow Surgery*, 24: 700-704.
- Fleming, M.A., Westgarth-Taylor, T.L., Candy, S. and Dunn, R.N. 2015. How does pre-reduction MRI affect surgeons' behaviour when reducing distraction-flexion (dislocation) injuries of the cervical spine. *SA Orthopaedic Journal*, 14(4): 42-46.
- Gabriel, M.S., Sonderup, M.W., Locketz, M.L., Bernon, M., Thomson, D., Gogela, N., Du Toit, J.M., Muller, E. and Spearman, W. 2015. A toxic brew. *The South African Gastroenterology Review*, 13(2): 30-32.
- Gichangi, M., Kalua, K., Barassa, E., Eliah, E., Lewallen, S. and Courtright, P. 2015. Task shifting for eye care in Eastern Africa: general nurses as trichiasis surgeons in Kenya, Malawi and Tanzania. *Ophthalmic Epidemiology*, 22(3): 226-230.
- Goedecke, J.H., Chorell, E., Livingstone, D.E.W., Stimson, R.H., Hayes, P., Adams, K.G., Dave, J.A., Victor, H.S., Levitt, N., Kahn, S.E., Seckl, J., Walker,

- B.R. and Olsson, T. 2015. Glucocorticoid receptor gene expression in adipose tissue and associated metabolic risk in black and white South African women. *International Journal of Obesity*, 39(2): 303-311.
- Goetsch, K., Bracher, M.J., Bezuidenhout, D., Zilla, P. and Davies, N.H. 2015. Regulation of tissue ingrowth into proteolytically degradable hydrogels. *Acta Biomaterialia*, 24: 44-52.
- Gupta, A., Mutebi, M. and Bardia, A. 2015. Gene-Expression-Based predictors for breast cancer. *Annals of Surgical Oncology*, 22: 3418-3432.
- Hastrup, O.O., Buchan, J.C., Cassels-Brown, A. and Cook, C.D. 2015. Are we monitoring the quality of cataract surgery services? A qualitative situation analysis of attitudes and practices in a large city in South Africa. *Middle East African Journal of Ophthalmology*, 22(2): 220-225.
- He, M., Mathenge, W., Lewallen, S. and Courtright, P. 2015. Global efforts to generate evidence for vision 2020. *Ophthalmic Epidemiology*, 22(4): 237-238.
- Heiden, D., Tun, N., Maningding, E., Heiden, M., Nussbaumer, J., Chan, K., Khizniak, T., Yakubenko, A., Lewallen, S., Keenan, J. and Saranchuk, P. 2014. Training clinicians treating HIV to diagnose cytomegalovirus retinitis. *Bulletin of the World Health Organization*, 92: 903-908.
- Held, M., Roche, S., Laubscher, M., Magosch, P., Lichtenberg, S., Habermeyer, P. and Vrettos, B.C. 2015. Biceps pulley lesions associated with subscapularis tears and subacromial impingement: the triad of the rotator interval lesion. *SA Orthopaedic Journal*, 14(1): 20-24.
- Hofman, K.J., Cook, C.D. and Levitt, N. 2015. Preventing diabetic blindness: a priority for South Africa. *SAMJ South African Medical Journal*, 104(10): 661-662.
- Hofmeyr, S., Krige, J.E.J., Bornman, P.C. and Beningfield, S.J. 2015. A cost analysis of operative repair of major laparoscopic bile duct injuries. *SAMJ South African Medical Journal*, 105(6): 454-457.
- Hommel, M., Navsaria, P.H., Schipper, I., Krige, J.E.J., Kahn, D. and Nicol, A. 2015. Management of blunt liver trauma in 134 severely injured patients. *Injury-International Journal of the Care of the Injured*, 46: 837-842.
- Hoppe, S., Keel, M.J.B., Rueff, N., Issadig, R., Roche, S. and Maqungo, S. 2015. Early versus delayed application of Thomas splints in patients with isolated femur shaft fractures: the benefits quantified. *Injury-International Journal of the Care of the Injured*, 46: 2410-2412.
- Hudson, D., Adams, K.G., Van Huyssteen, A., Martin, R. and Huddleston, E. 2015. Simplified negative pressure wound therapy: clinical evaluation of an ultraportable, no-canister system. *International Wound Journal*, 12: 195-201.
- Human, P.A., Ilesley, H.J., Roberson, C., Grovender, E., Van Antwerp, B., Fogt, E. and Zilla, P. 2015. Assessment of the immunogenicity of mechanically induced interferon aggregates in a transgenic mouse model. *Journal of Pharmaceutical Sciences*, 104: 722-730.
- James, M.F.M., Joubert, I., Michell, W.L., Nicol, A., Navsaria, P.H. and Gillespie, R.S. 2015. Faulty risk-of-bias assessment in a meta-analysis of hydroxyethyl starch for non-septic ICU patients: a rebuttal. *Critical Care*, 19: 444.
- Jehle, K.S., Lazarus, J. and Barnes, R.D. 2015. A review of transrectal ultrasound guided prostate biopsies: Is there still a role for finger guided prostate biopsies? *African Journal of Urology*, 21: 62-66.
- Johnson, N.R., Kruger, M., Goetsch, K., Zilla, P., Bezuidenhout, D., Wang, Y. and Davies, N.H. 2015. Coacervate delivery of growth factors combined with a degradable hydrogel preserves heart function after myocardial infarction. *ACS Biomaterials Science & Engineering*, 1: 753-759.
- Kalua, K., Phiri, M., Kumwenda, I., Masika, M., Pavluck, A.L., Willis, R., Mpyet, C., Lewallen, S., Courtright, P. and Solomon, A.W. 2015. Baseline trachoma mapping in Malawi with the Global Trachoma mapping project (GTMP). *Ophthalmic Epidemiology*, 22(3): 176-183.
- Krige, J.E.J. and Kahn, D. 2015. Determining chances for survival in intrahepatic cholangiocarcinoma. *JAMA Surgery*, 150(6): 546.
- Krige, J.E.J., Kotze, U.K., Navsaria, P.H. and Nicol, A. 2015. Endoscopic and operative treatment of delayed complications after pancreatic trauma: an analysis of 27 civilians treated in an academic Level 1 trauma centre. *Pancreatology*, 15: 563-569.
- Krige, J.E.J., Kotze, U.K., Nicol, A. and Navsaria, P.H. 2015. Isolated pancreatic injuries: an analysis of 49 consecutive patients treated at a level 1 trauma centre. *Journal of Visceral Surgery*, 152: 349-355.
- Krige, J.E.J., Kotze, U.K., Setshedi, M., Nicol, A. and Navsaria, P.H. 2015. Prognostic factors, morbidity and mortality in pancreatic trauma: a critical appraisal of 432 consecutive patients treated at a Level 1 Trauma Centre. *Injury-International Journal of the Care of the Injured*, 46: 830-836.
- Kruger, N. 2015. Instructional course lecture: spondylolysis. *SA Orthopaedic Journal*, 14(2): 29-34.

- Langa, B.C., Oliveira, M.M.C., Pereira, S.R.F., Lupicki, K., Marian, C., Govender, D., Panieri, E., Hiss, D., Cavalli, J., Abdul-Rasool, S. and Cavalli, L.R. 2015. Copy number analysis of the DLX4 and ERBB2 genes in South African breast cancer patients. *Cytogenetic and Genome Research*, 146(3): 195-203.
- Laubscher, M., Held, M. and Dunn, R.N. 2015. Primary bone tumours of the spine: presentation, surgical treatment and outcome. *SA Orthopaedic Journal*, 14(2): 22-28.
- Laubscher, M., Held, M., Maree, M. and Solomons, M.W. 2015. Radial nerve lacerations-the outcome of end-to-end repairs in penetrating trauma. *Hand Surgery*, 20(1): 67-72.
- Lecuona, K., Stannard, C.E., Hart, G.J., Rice, J.C., Cook, C.D., Wetter, J.A. and Duffield, M. 2015. The treatment of carcinoma in situ and squamous cell carcinoma of the conjunctiva with fractionated strontium-90 radiation in a population with a high prevalence of HIV. *British Journal of Ophthalmology*, 99: 1158-1161.
- Lenake, M. and Du Toit, N. 2014. Paediatric ophthalmology at primary healthcare level. *South African Family Practice*, 56(6): 291-296.
- Lenhart, P., Courtright, P., Wilson, E., Lewallen, S., Taylor, D.S., Ventura, M.C., Bowman, R., Woodward, L., Ditta, L., Kruger, S., Haddad, D. and Shakankir, N. 2015. Global challenges in the management of congenital cataract: proceedings of the 4<sup>th</sup> International Congenital Cataract Symposium held on March 7, 2014, New York, New York. *Journal of Aapos*, 19: e1-e8.
- Levin, A., Muller, E., Alrukhaimi, M., Naicker, S. and Tibbel, A. 2015. Transplant commercialism and organ trafficking: the declaration of Istanbul with special relevance to disadvantaged populations living with kidney disease. *Clinical Nephrology*, 83(Suppl1): S85-S89.
- Lewallen, S., Schmidt, E., Jolley, E., Lindfield, R., Dean, W.H., Cook, C.D., Mathenge, W. and Courtright, P. 2015. Factors affecting cataract surgical coverage and outcomes: a retrospective cross-section study of eye health systems in sub-Saharan Africa. *BMC Ophthalmology*, 15: 67(8pp).
- Li, T., Robertson-More, C., MacLean, A.R., Dixon, E., Navsaria, P.H., Nicol, A., Kirkpatrick, A.W. and Ball, C. 2015. Bowel obstructions and incisional hernias following trauma laparotomy and the nonoperative therapy of solid organ injuries: a retrospective population-based analysis. *Journal of Trauma and Acute Care Surgery*, 79(3): 386-392.
- Ligthelm, T., Wallis, L.A., Martin, S. and van Aswegen, P. 2015. Mass casualty aero-medical evacuation from the Nigerian building collapse back to South Africa. *Medical Corps International Forum*, 3: 82-88.
- Liu, M., Williams, J., Panieri, E. and Kahn, D. 2015. Migration of surgeons ('brain drain'): the University of Cape Town experience. *South African Journal of Surgery*, 53(3&4): 20-22.
- Lubbe, D.E., Stephenson, K.A. and Semple, P.L. 2015. Minimally invasive approach for lesions involving the frontal sinus. *South African Journal of Surgery*, 53(2): 62-64.
- Maarman, G., Blackhurst, D.M., Thienemann, F., Blauwet, L., Butrous, G., Davies, N.H., Sliwa, K. and Lecour, S. 2015. Melatonin as a preventive and curative therapy against pulmonary hypertension. *Journal of Pineal Research*, 59: 343-353.
- MacCormick, I.J.C., Maude, R., Beare, N.A.V., Borooah, S., Glover, S., Parry, D., Leach, S., Molyneux, M., Dhillon, B., Lewallen, S. and Harding, S. 2015. Grading fluorescein angiograms in malarial retinopathy. *Malaria Journal*, 14: 367(20pp).
- Mandizvidza, V. and Dunn, R.N. 2015. Multilevel lumbosacral fusions: complications and patient-reported outcome. *SA Orthopaedic Journal*, 14(2): 16-21.
- Mann, T., Donald, K.A., Walker, K.G. and Langerak, N. 2015. Resolved lower limb muscle tone abnormalities in children with HIV encephalopathy receiving standard antiretroviral therapy. *AIDS Research and Therapy*, 12: 43(5pp).
- Maqungo, S., Allen, J., Carrara, H., Roche, S. and Rueff, N. 2015. Early application of the Thomas splint femur shaft fractures in a Level 1 Trauma Unit. *SA Orthopaedic Journal*, 14(3): 75-79.
- Maqungo, S., Kimani, M., Chhiba, D., McCollum, G.A. and Roche, S. 2015. The L5 transverse process fracture revisited. Does its presence predict the pelvis fracture instability? *Injury-International Journal of the Care of the Injured*, 46: 1629-1630.
- Matthews, K., Deffur, A., Ntsekhe, M., Syed, F., Russell, J.B.W., Tibazarwa, K., Wolske, J., Brink, J.G., Mayosi, B.M., Wilkinson, R.J. and Wilkinson, K. 2015. A compartmentalized profibrotic immune response characterizes pericardial tuberculosis, irrespective of HIV-1 infection. *American Journal of Respiratory and Critical Care Medicine*, 192(12): 1518-1520.
- Minnie, L., Goodman, S.L. and Wallis, L.A. 2015. Exposure to daily trauma: The experiences and coping mechanism of emergency medical personnel. A cross-sectional study. *African Journal of Emergency Medicine (AfJEM)*, 5(12): 12-18.
- Mohamed, Z., Wallis, L.A. and Motara, F. 2015. Patient satisfaction with emergency departments. *SAMJ South African Medical Journal*, 105(6): 429.

- Mohan, A., Adams, S., Adams, K.G. and Hudson, D.A. 2015. Intralesional bleomycin injection in management of low flow vascular malformations in children. *Journal of Plastic Surgery and Hand Surgery*, 49: 116-120.
- Moodley, S.T., Hudson, D., Adams, S. and Adams, K.G. 2015. Shouldnt Propranolol be used to treat all Haemangiomas? *Aesthetic Plastic Surgery*, 39: 963-967.
- Mould-Millman, N.-K., De Vries, S., Stein, C., Kafwamfwa, M., Dixon, J., Yancey, A., Laba, B., Overton, J., McDaniel, R. and Wallis, L.A. 2015. Developing emergency medical dispatch systems in Africa - recommendations of the African federation for emergency medicine/international academies of emergency dispatch working group. *African Journal of Emergency Medicine (AfJEM)*, 5: 141-147.
- Mousa, A., Courtright, P., Kazanjian, A. and Bassett, K. 2015. A Community-based eye care intervention in Southern Egypt: Impact on trachomatous trichiasis surgical coverage. *Middle East African Journal of Ophthalmology*, 22: 478-483.
- Muller, E. 2015. Transplantation in resource-limited setting: using HIV-positive donors for HIV-positive patients. *Clinical Nephrology*, 83(Suppl 1): S39-S41.
- Muller, E., Barday, Z., Mendelson, M. and Kahn, D. 2015. HIV-positive-to-HIV-positive kidney transplantation-results at 3 to 5 years. *New England Journal of Medicine*, 372: 613-620.
- Muller, E., Thomson, D. and McCurdie, F. 2015. Transplantation in South Africa. *Transplantation*, 99(4): 643-645.
- Murray, A.D.N. 2015. An approach to some aspects of strabismus from ocular and orbital trauma. *Middle East African Journal of Ophthalmology*, 22(3): 312-319.
- Naidoo, N.G., Kahn, D. and Mfolozi, S. 2014. An unusual case of swab embolism. *Case Reports in Surgery*, 2014: 405947(3pp).
- Naidoo, N.G., Navsaria, P.H., Beningfield, S.J., Natha, B., Cloete, N.J. and Gill, H. 2015. Stent graft repair of subclavian and axillary vascular injuries: the Groote Schuur experience. *South African Journal of Surgery*, 53(1): 5-9.
- Nashidengo, P.M., Gool, F. and Thomson, S.R. 2015. Asymptomatic cholelithiasis in diabetes mellitus to operate or not to operate that is the question. *The South African Gastroenterology Review*, 13(2): 13-16.
- Navsaria, P.H., Nicol, A., Edu, S., Gandhi, R. and Ball, C. 2015. Selective nonoperative management in 1106 patients with abdominal gunshot wounds: conclusions on safety, efficacy, and the role of selective CT imaging in a prospective single-center study. *Annals of Surgery*, 261(4): 760-764.
- Nicol, A., Navsaria, P.H., Beningfield, S.J., Hommes, M. and Kahn, D. 2015. Screening for Occult Penetrating Cardiac Injuries. *Annals of Surgery*, 261: 573-578.
- Obermeyer, Z., Abujaber, S., Makar, M., Stoll, S., Kayden, S., Wallis, L.A. and Reynolds, T.A. 2015. Emergency care in 59 low- and middle-income countries: a systematic review. *Bulletin of the World Health Organization*, 93: 577-586.
- Oner, F., Sadiqi, S., Lehr, A., Aarabi, B., Dunn, R.N., Dvorak, M., Fehlings, M., Kandziora, F., Post, M., Rajasekaran, S., Vialle, L. and Vaccaro, A. 2015. Toward developing a specific outcome instrument for spine trauma. *Spine*, 40(17): 1371-1379.
- Padayachy, L. and Fieggen, A.G. 2015. Optic nerve sheath diameter as criteria for endoscopic third ventriculostomy failure in children. *Childs Nervous System*, 31: 1219-1220.
- Padayachy, L., Kilborn, T.N., Carrara, H.R.O., Figaji, A.A. and Fieggen, A.G. 2015. Change in optic nerve sheath diameter as a radiological marker of outcome from endoscopic third ventriculostomy in children. *Childs Nervous System*, 31: 721-728.
- Parkes, J., Davidson, A., Figaji, A.A., Pillay, K., Kilborn, T.N., Padayachy, L., Hendricks, M.K. and Van Eyssen, A. 2014. Ependymoma. *Journal of Neuro-Oncology*, 16(2014): i17-i25.
- Parkes, J., Hendricks, M., Ssenyonga, P., Mugamba, J., Molyneux, E., Shouten-van Meeteren, A., Qaddoumi, I., Fieggen, A.G., Luna-Fineman, S., Howard, S., Mitra, D., Bouffet, E., Davidson, A. and Bailey, S. 2015. SIOP PODC adapted treatment recommendations for standard-risk medulloblastoma in low and middle income settings. *Pediatric Blood & Cancer*, 62: 553-564.
- Peer, S. 2015. Turning up the volume on hearing loss in South Africa. *SAMJ South African Medical Journal*, 105(1): 31-32.
- Peer, S. and Fagan, J.J. 2015. Hearing loss in the developing world: evaluating the iPhone mobile device as a screening tool. *SAMJ South African Medical Journal*, 105(1): 35-39.
- Raiman, S., Knight, S.E., Eley, B.S. and Welzel, T.B. 2015. Use of polyclonal intravenous immunoglobulin at a paediatric referral hospital in South Africa between 2009 and 2012. *Journal of Clinical Immunology*, 35: 668-674.
- Rice, J.C. and Steffen, J. 2015. Outcomes of vitrectomy for advanced diabetic retinopathy at Groote Schuur Hospital, Cape Town, South Africa. *SAMJ South African Medical Journal*, 105(6): 496-499.
- Roberts, D.J., Bobrovitz, N., Zygun, D., Ball, C.G., Kirkpatrick, A.W., Faris, P., Parry, N., Nicol, A., Navsaria, P.H., Moore, E., Leppniemi, A.K. and Inaba, K. 2015. Indications for use of thoracic, abdominal,

pelvic, and vascular damage control interventions in trauma patients: a content analysis and expert appropriateness rating study. *Journal of Trauma and Acute Care Surgery*, 79(4): 568-579.

Rode, H., Rogers, A.D., Numanoglu, A., Wallis, L.A., Allgaier, R., Laflamme, L., Hasselberg, M., Blom, L. and Duvenage, R. 2015. A review of primary and secondary burn services in the Western Cape, South Africa. *SAMJ South African Medical Journal*, 105(10): 853-857.

Ryan, P., Anley, C., Lambrechts, A., Vrettos, B.C. and Roche, S. 2015. Technical difficulty in component sizing and positioning in humeral resurfacing: relationship to clinical outcomes. *SA Orthopaedic Journal*, 14(3): 32-42.

Ryan, P., Dachs, R.P., du Plessis, J.P., Vrettos, B.C. and Roche, S. 2015. Reverse total shoulder arthroplasty for complex proximal humeral fractures in the elderly: how to improve outcomes and avoid complications. *SA Orthopaedic Journal*, 14(1): 25-33.

Schaftenaar, E., Lecuona, K., Baarsma, G., Meenken, C., Verjans, G., McIntyre, J.A. and Peters, R. 2015. Anterior chamber paracentesis to improve diagnosis and treatment of infectious uveitis in South Africa. *SAMJ South African Medical Journal*, 105(8): 628-630.

Schrieff, L.E., Thomas, K., Rohlwink, U.K. and Figaji, A.A. 2015. Low brain oxygenation and differences in neuropsychological outcomes following severe Pediatric TBI. *Childs Nervous System*, 31: 2257 -2268.

Shaheer, A. and Tinley, C. 2015. Primary orbital lymphomatoid granulomatosis in a 1-year-old child. *Middle East African Journal of Ophthalmology*, 22: 517-519.

Sharp, S., Poglitsch, M., Zilla, P., Davies, N.H. and Sturrock, E.D. 2015. Pharmacodynamic effects of C-domain-specific ACE inhibitors on the renin-angiotensin system in myocardial infarcted rats. *Journal of the Renin-Angiotensin-Aldosterone System*, 16(4): 1149-1158.

Sirry, M.S., Davies, N.H., Kadner, K., Dubuis, L., Saleh, M., Meintjes, E.M., Spottiswoode, B., Zilla, P. and Franz, T. 2015. Micro-structurally detailed model of a therapeutic hydrogel injectate in a rat biventricular cardiac geometry for computational simulations. *Computer Methods in Biomechanics and Biomedical Engineering*, 18(3): 325-331.

Sliwa, K., Johnson, M.R., Zilla, P. and Roos-Hesselink, J.W. 2015. Management of valvular disease in pregnancy: a global perspective. *European Heart Journal*, 36: 1078-1089.

Sobnach, S., Segobin, R., Nicol, A., Edu, S., Kahn, D. and Navsaria, P.H. 2015. Penetrating trauma to the

kidney and Meckel's Diverticulum in a patient with unilateral renal agenesis. *International Journal of Surgery Case Reports*, 17: 136-138.

Sofianos, C., Oodit, R.L., Folscher, D., Potgieter, A., Koto, Z., Grobler, S. and Bougard, H. 2015. Inguinal hernia guidelines 2015: hernia interest group South Africa. *South African Journal of Surgery*, 53(2): 73-80.

Solomon, A.W., Pavluck, A.L., Courtright, P., Aboe, A., Adamu, L., Alemayehu, W., Alemu, M., Alexander, N.D.E., Kello, A.B., Bero, B., Brooker, S., CHu, B., jene, M., Emerson, P., Flueckiger, R., Gadisa, S., Gass, K., Gebre, T., Habtamu, Z., Harvey, E., Haslam, D., King, J., Le Mesurier, R., Lewallen, S., Lietman, T., MacArthur, C., Mariotti, S., Massey, A., Mathieu, E., Mekasha, A., Millar, T., Mpyet, C., Munoz, B., Ngondi, J., Ogden, S., Pearce, J., Sarah, V., Sisay, A., Smith, J., Taylor, H., Thomson, J., West, S., Willis, R., Bush, S., Haddad, D. and Foster, A. 2015. The global trachoma mapping project: methodology of a 34-country population-based project. *Ophthalmic Epidemiology*, 22(3): 214-225.

Solomons, M.W. 2015. Corticosteroid usage in hand and wrist surgery. *SA Orthopaedic Journal*, 14(2): 48-51.

Sorsdahl, K., Myers, B.J., Ward, C.L., Matzopoulos, R., Mtukushe, B., Nicol, A., Cuijpers, P. and Stein, D.J. 2015. Adapting a blended motivational interviewing and problem-solving intervention to address risky substance use amongst South Africans. *Psychiatry Research*, 25(4): 435-444.

Sothmann, J., Stander, J., Kruger, N. and Dunn, R.N. 2015. Epidemiology of acute spinal cord injuries in the Groote Schuur Hospital Acute Spinal Cord Injury (GSH ASCI) Unit, Cape Town, South Africa, over the past 11 years. *SAMJ South African Medical Journal*, 105(10): 835-839.

Ssenyonga, P., Le Feuvre, D.E.J. and Taylor, A.G. 2015. Head and neck neurovascular trauma: clinical and angiographic correlation. *Interventional Neuroradiology*, 21(1): 108-113.

Stein, C., Wallis, L.A. and Adetunji, O. 2015. Meeting national response time targets for priority 1 incidents in an urban emergency medical services system in South Africa: more ambulances won't help. *SAMJ South African Medical Journal*, 105(10): 840-844.

Stein, C., Wallis, L.A. and Adetunji, O. 2015. The effect of the emergency medical services vehicle location and response strategy on response times. *South African Journal of Industrial Engineering*, 26(2): 26-40.

Stephenson, K.A. and Fagan, J.J. 2015. Effect of perioperative proton pump inhibitors on the incidence of pharyngocutaneous fistula after total



- laryngectomy: a prospective randomized controlled trial. *Head and Neck-Journal for the Sciences and Specialties of the Head and Neck*, 37: 255-259.
- Tang, J.B., Blazar, P.E., Giddins, G., Lalonde, D., Martinez, C. and Solomons, M.W. 2015. Overview of indications, preferred methods and technical tips for hand fractures from around the world. *Journal Of Hand Surgery-European Volume*, 40E(1): 88-97.
- Thompson, C., Gonsalves, J. and Welsh, D.G. 2015. Hyperextension injury of the cervical spine with central cord syndrome. *European Spine Journal*, 24: 195-202.
- Thurston, B., Chowdhury, S., Edu, S., Nicol, A. and Navsaria, P.H. 2015. Time since injury is the major factor in preventing tranexamic acid use in the trauma setting: an observational cohort study from a major trauma centre in a middle-income country. *South African Journal of Surgery*, 53(1): 13-18.
- Tupesis, J., Wallis, L.A. and Teklu, S. 2015. Partnerships in emergency care: Summary proceedings from the 2014 African Conference on Emergency Medicine. *African Journal of Emergency Medicine (AfJEM)*, 5: 3-6.
- van der Bijl, P., Doruyter, A., De Decker, R., Lawrenson, J., Comitis, G. and Hewitson, J.P. 2015. Chest pain on exertion after the Takeuchi repair of anomalous origin of the left coronary artery: right ventricular ischemia due to severe pulmonary outflow tract obstruction. *World Journal for Pediatric and Congenital Heart Surgery*, 6(1): 90-92.
- van Hoving, D.J., Lategan, H.J., Wallis, L.A. and Smith, W.P. 2015. The epidemiology of major incidents in the Western Cape province, South Africa. *SAMJ South African Medical Journal*, 105(10): 831-834.
- Viljoen, K., Dakshinamurthy, A., Goldberg, P.A. and Blackburn, J. 2015. Quantitative profiling of colorectal cancer-associated bacteria reveals associations between *Fusobacterium* spp., enterotoxigenic *Bacteroides fragilis* (ETBF) and clinicopathological features of colorectal cancer. *PLoS One*, 10(3): e0119462(21pp).
- Vochteloo, A.J., Roche, S., Dachs, R.P. and Vrettos, B.C. 2015. Total elbow arthroplasty in bleeding disorders: an additional series of 8 cases. *Journal of Shoulder and Elbow Surgery*, 24: 773-778.
- Wallis, L.A. 2015. Introduction to algorithms for managing the common trauma patient. *SAMJ South African Medical Journal*, 105(6): 501.
- Webster, J., Taylor, A.G. and Balchin, R. 2015. Traumatic brain injury, the hidden pandemic: a focused response to family and patient experiences and needs. *SAMJ South African Medical Journal*, 105(3): 195-198.
- Wells, B.J., Roberts, D.J., Grondin, S., Navsaria, P.H., Kirkpatrick, A.W., Dunham, M.B. and Ball, C. 2015. To drain or not to drain: Predictors of tube thoracostomy insertions and outcomes associated with drainage of traumatic hemothoraces. *Injury-International Journal of the Care of the Injured*, 46: 1743-1748.
- West, S. and Courtright, P. 2015. Trachoma control: 14 years later. *SAMJ South African Medical Journal*, 22(3): 145-147.
- Yang, E., Cook, C.D. and Kahn, D. 2015. Acute appendicitis in the public and private sectors in Cape Town, South Africa. *World Journal of Surgery*, 39: 1700-1707.
- Yang, E., Kahn, D. and Cook, C.D. 2015. Acute appendicitis in South Africa: a systematic review. *South African Journal of Surgery*, 53(3&4): 31-38.