



Health and  
Health Care  
in South Africa

HCJ van Rensburg  
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# News Report

## 2012

**Centre for Health Systems  
Research & Development**

**Sentrum vir  
Gesondheidsisteennavorsing &  
Ontwikkeling**

UNIVERSITY OF THE  
FREE STATE  
UNIVERSITEIT VAN DIE  
VRYSTAAT  
YUNIVESITHI YA  
FREISTATA



**UFS·UV**  
HUMANITIES  
GEESTESWETENSAPPE





**News Report 2012  
Centre for Health Systems  
Research & Development**

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# 2012 – Year in retrospect

2012 was the 19<sup>th</sup> year of existence of the Centre for Health Systems Research & Development (CHSR&D). For the year we report:

- Two completed projects.
- Three ongoing projects.
- Three new projects.
- One book (with eight of the twelve chapters by CHSR&D researchers and research associates).
- Six refereed/peer-reviewed articles.
- Two technical/research reports.
- Seven refereed/peer-reviewed international conference presentations.
- Thirteen other conference/feedback workshop presentations/guest lectures.
- One completed doctoral study.
- Three ongoing doctoral degree studies.
- Eight completed master's degree studies.
- Thirteen ongoing master's degree studies.
- One master's degree course presented.
- One certificate course presented.

Among the highlights of the Centre's work in 2012 was the following: Firstly, the publication of a complete revision and updating of the book, *Health and Health Care in South Africa* (HCJ van Rensburg [Ed.] - Van Schaik). Several eminent and seasoned authors - as well as a number of young and upcoming researchers - from the University of the Free State (UFS) and other universities participated in this comprehensive and widely-prescribed scholarly work.

Secondly, the Centre's application for continuation at the UFS was approved by top management after the development of a strategic plan including a revised mission, purpose and constitution; a detailed delineation of the scope of activities, organisational structure and governance, financial support, staffing, human resource and space arrangements; as well as applicable principles, practices and plans in respect of monitoring and evaluation and ethics.

Thirdly, the certificate ceremony of the course *Implementation and evaluation of workplace-based programmes for HIV and TB prevention and care* on 17 May was a significant event which celebrated the success of the University of British Columbia (UBC) and CHSR&D's collaboration to foster Free State health care workers' understanding of the content and methods required to conduct and evaluate workplace-based HIV and TB prevention initiatives. The Centre also embarked on a process to develop a proposal to implement and evaluate a workplace TB and HIV screening and treatment programme for health care workers by way of a randomised controlled trial - again in collaboration with domain experts from the UBC.

Fourthly, on the teaching front, an important activity was the complete revision of the modules on health, HIV/AIDS and further development and updating of the master's courses in respectively Development Studies (MDS712 and MDS713) and Africa Studies

(ADD707). The new modules have been enthusiastically received by the course hosts and students alike.

To further contextualise and articulate our research and development (R&D) the following points of departure are important: Our initiatives rest heavily on the collaboration and goodwill of the numerous partners within and outside the UFS who, during the past 19 years, gave so much of their time in the interest of the Centre's R&D. Moreover, close partnership with the Free State Department of Health (FSDoH) allows the Centre to contribute constructively towards optimising health services and the health of the people of the province and South Africa. Strengthening existing partnerships and building new national and international partnerships are fundamental to the type of work done at the CHSR&D. Our research, apart from generating new knowledge, is throughout focused on application, implementation and intervention, and for these reasons always conducted in close collaboration with partners in the real and practical worlds.

The Centre is making a concerted attempt to counter the challenge of scarcity of skills in both quantitative and qualitative analysis. We are proud of the number and quality of the research projects completed and initiated during the past year. The same applies to our research outputs in their diversity of form and format and through which we endeavour to realise the *first* main theme of the UFS's Strategic Plan 2012-2016, i.e. the Academic Project. The *second* main theme, i.e. the Human Project, finds expression in the Centre's R&D in a more general sense, namely that our work is very much directed towards alleviating the plight of the poor and marginalised segments of the population - those who are disproportionately affected by disease and who are most reliant on a struggling public health care system.

An exciting new project to evaluate the Orphans and Vulnerable Children's (OVC) programme provided by Mosamaria AIDS Ministry in Bloemfontein and Botshabelo capitalises on the Centre's newly acquired acumen in monitoring and evaluation. The findings of this evaluation will provide a strong evidence base to support future funding applications of this community and faith-based organisation.

We are thankful for funding received in 2012 from the American International Health Alliance HIV/AIDS Twinning Center, Canadian Institute of Health Research, Centers for Disease Control and Prevention, Global Health Research Initiative, International Union Against Tuberculosis and Lung Disease, National Research Foundation, TREAT TB, UFS Strategic Academic Cluster for New Frontiers in Poverty Reduction and Sustainable Development, and United States Agency for International Development.

CHSR&D researchers, support staff and students are thanked for their hard work.

**Prof Christo Heunis**  
Director

# 2012 – Terugblik op die Jaar

2012 was die 19<sup>de</sup> jaar van die bestaan van die Sentrum vir Gesondheidsstelselnavorsing & Ontwikkeling (SGSN&O). Vir die jaar rapporteer ons:

- Twee voltooide projekte.
- Drie lopende projekte.
- Drie nuwe projekte.
- Een boek (met agt van die twaalf hoofstukke deur SGSN&O navorsers en navorsingsgenote).
- Ses gekeurde/eweknie-geëvalueerde artikels.
- Twee tegniese/navorsingsverslae.
- Agt gekeurde/eweknie-geëvalueerde internasionale konferensie-voordragte.
- Dertien ander konferensie/terugvoerwerkswinkel-voordragte/gaslesings.
- Een voltooide doktorsgraadstudie.
- Drie lopende doktorsgraadstudies.
- Agt voltooide meestersgraadstudies.
- Dertien lopende meestersgraadstudies.
- Een meestersgraadkursus aangebied.
- Een sertifikaatkursus aangebied.

Onder die Sentrum se hoogtepunte in 2012 was die volgende: Eerstens, die publikasie van 'n volledige hersiening en opdatering van die boek, *Health and Health Care in South Africa* (HCJ van Rensburg [Ed.] – Van Schaik). Verskeie vooraanstaande en ervare skrywers – sowel as 'n aantal jong en opkomende navorsers van die Universiteit van die Vrystaat (UV) en ander universiteite het aan hierdie omvattende en wyd-voorgeskrewe wetenskaplike werk deelgeneem.

Tweedens, die Sentrum se aansoek vir voortbestaan by die UV is deur die topbestuur goedgekeur na die ontwikkeling van 'n strategiese plan met inbegrip van 'n hersiene missie, doel en grondwet; en gedetailleerde uiteensetting van die omvang van die aktiwiteite, organisatoriese struktuur en bestuur, finansiële ondersteuning, personeel, menslike hulpbron- en ruimte reëlins, asook toepaslike beginsels, praktyke en planne ten opsigte van monitering, evaluering en etiek.

Derdens, die sertifikaatseremonie van die kursus *Implementering en evaluering van werksplek-gebaseerde programme vir MIV en TB voorkoming en sorg* op 17 Mei was 'n noemenswaardige gebeurtenis wat die sukses gevier het van die University of British Columbia (UBC) en SGSN&O se samewerking om Vrystaat gesondheidsorgwerkers se begrip te bevorder van die inhoud en metodes wat nodig is om werksplek-gebaseerde MIV en TB voorkominginisiatiewe uit te voer. Die Sentrum het ook begin met 'n proses om 'n voorstel te ontwikkel om 'n werksplekprogram oor TB en MIV sifting en behandeling vir gesondheidswerkers te implementeer en te evalueer by wyse van 'n ewekansige gekontroleerde proefneming – weereens in samewerking met domeinspesialiste van die UBC.

Vierdens, op die onderrigterrein was 'n belangrike aktiwiteit die volledige hersiening van die modules oor gesondheid, MIV/VIGS en die verdere ontwikkeling en opdatering van die

meestersgraadkursusse in onderskeidelik Ontwikkelingstudies (MDS 712 en 713) en Afrikastudies (ADD707). Die nuwe modules is goed ontvang deur die kursusfasiliteerders en studente insgelyks.

Ten einde ons navorsings en ontwikkeling (N&O) verder in konteks te plaas is die volgende vertrekpunte van belang: Ons inisiatiewe rus swaar op die samewerking en welwillendheid van die talle vennote binne en buite die UV wat gedurende die afgelope 19 jaar soveel van hul tyd in die belang van die Sentrum se N&O gegee het. Daarby, stel noue vennootskap met die Vrystaat Departement van Gesondheid die Sentrum in staat om op 'n konstruktiewe manier bydrae te lewer tot die optimalisering van gesondheidsdienste en die gesondheid van die mense van die provinsie en Suid-Afrika. Versterking van bestaande vennootskappe en die bou van nuwe nasionale en internasionale vennootskappe is fundamenteel tot die aard van die werk wat gedoen word by die SGSN&O. Ons navorsing, afgesien daarvan om nuwe kennis te genereer, is in die geheel gefokus op toepassing, implementering en intervensie, en vir hierdie redes altyd in noue samewerking met vennote in die werklike en praktiese wêreld.

Die Sentrum wend 'n daadwerklike poging aan om die uitdaging van skaars vaardighede in beide kwantitatiewe en kwalitatiewe analise aan te spreek. Ons is trots op die aantal en die gehalte van die navorsingsprojekte wat gedurende die afgelope jaar voltooi en geïnisieer is. Dieselfde geld vir ons navorsingsuitsette in hulle diversiteit van vorm en formaat en waar deur ons poog om die eerste hooftema van die UV se Strategiese Plan 2012-2016, d.i. die Akademiese Projek, te realiseer. Die tweede hooftema, d.i. die Menslike Projek, vind uitdrukking in die Sentrum se N&O in 'n meer algemene sin, naamlik dat ons werk baie gerig is op die verligting van die las op die arm en gemarginaliseerde segmente van die bevolking – diegene wat disproporsioneel geraak word deur siekte en wat mees afhanklik is van 'n sukkelende openbare gesondheidsorgstelsel.

'n Opwindende nuwe projek om die *Orphans and Vulnerable Children's (OVC)* program van *Mosamaria AIDS Ministry* in Bloemfontein en Botshabelo te evalueer, kapitaliseer op die Sentrum se nuut verworwe vernuf in monitering en evaluering. Die bevindinge van hierdie evaluering sal 'n sterk bewyse basis bied om toekomstige befondsingsaansoeke van hierdie gemeenskap- en geloof-gebaseerde organisasie te ondersteun.

Ons is dankbaar vir die befondsing wat in 2012 van die *American International Health Alliance HIV/AIDS Twinning Center, Canadian Institute of Health Research, Centers for Disease Control and Prevention, Global Health Research Initiative, International Union Against Tuberculosis and Lung Disease, National Research Foundation, TREAT TB, UFS Strategic Academic Cluster for New Frontiers in Poverty Reduction and Sustainable Development, and United States Agency for International Development* ontvang is.

SGSN&O navorsers, ondersteuningspersoneel en studente word bedank vir hul harde werk.

**Prof Christo Heunis**  
Direkteur



# THE CENTRE FOR HEALTH SYSTEMS RESEARCH & DEVELOPMENT

## Background, aims and activities

Established at the UFS in 1993, the CHSR&D stems from a rich tradition of research and training in medical sociology / sociology of health and health care. Founded specifically to address the need for social scientific and operational research and related skills in the field of health and health care, the CHSR&D has shown unremitting growth and expansion in terms of staffing, projects, and the scope and diversity of its R&D activities. The Centre has accumulated commendable experience and expertise in a number of fields of study and methodological approaches and amid ever-widening local, national and international research collaborations and partnerships.

The Centre's mission and purpose is to generate and disseminate scientific knowledge and to act upon the prevailing policy, information and development needs of South Africa and its population in order to inform new policies, strategies and practices in the health systems at the local, provincial and national levels. The Centre is also committed to capacity development, postgraduate training and community service in the domain of health and illness/disease, health systems and health care. The main focus areas and areas of expertise of the Centre's R&D span:

1. The South African health system: structure and dynamics.
2. Health policies, management, programmes, institutions, human resources and related information.
3. TB prevention and control and TB-HIV programme integration.
4. HIV/AIDS and sexual and reproductive health.
5. Occupational health and related information systems.

The common denominator in all the Centre's R&D activities and postgraduate training is its focus on the social (read: systems and patient/client/user) aspects of health systems, services and programmes for epidemic control and mitigation of diseases/illnesses, both communicable and non-communicable. Social R&D in the Centre takes the form of health systems research, operational research and monitoring and evaluation. Given the complexity and multi-dimensionality of the challenges of health, disease, epidemics, health systems and health care facing

South Africa and the African continent, the need for multidisciplinary foci, skills and methodological approaches is paramount. This need is met in the Centre's research staff establishment comprising academics trained in (medical) sociology, (research) psychology, education, criminology, health systems research, development studies and child and gender studies, as well as in a variety of quantitative and qualitative research approaches and methodologies. Moreover, the Centre's research staff have a wealth of experience in the above-mentioned focus areas and have over the almost two decades of its existence developed a wide national and international connectedness, frequent engagement and collaborative relations with a number of eminent institutions in South Africa and internationally.

The Centre has set the following aims to realise its mission:

1. Meet the need for multidisciplinary R&D in the domain of health, health systems and health care.
2. Generate and disseminate research findings and information in respect of health, health systems and health care, and guide implementation of research findings into policy, management and practice.
3. Inform the strengthening of health systems with a view to greater equity, effectiveness and efficiency.
4. Empower staff, students and stakeholder groups through active involvement in and feedback on health R&D activities.
5. Provide postgraduate training and expand expertise in health, health systems and health care-related R&D.

The Centre strives to realise its mission and aims by means of the following main activities:

1. Identify core/essential areas and topics for R&D.
2. Proposal development and generation of funds.
3. Data collection, computerisation and analysis.
4. Dissemination of research findings with a view to implementation in policy, management and practice.
5. Postgraduate study supervision and courses.
6. University engagement and collaboration.
7. Engagement and collaboration with local community, provincial and national stakeholders.
8. International engagement and collaboration.
9. Staff development.
10. Community service via R&D.
11. Participation in national and international professional bodies and societies.



# CHSR&D STAFF



Director  
Prof Christo Heunis



Dr Michelle  
Engelbrecht



Dr Asta Rau



Ega Janse van  
Rensburg-Bonthuyzen



Dr Gladys Kigozi

## SENIOR RESEARCHERS

## RESEARCHERS



André Janse van  
Rensburg



NEW APPOINTMENT  
Nandipha Jacobs, Re-  
appointed as Researcher  
after full-time doctoral  
degree study



Belinda Jacobs,  
Financial Officer



Bridget Smit,  
Administrative Officer



Theresa Neuhoff,  
Data Manager

## SUPPORT STAFF



Jo-Ann Lebaka-  
Ntloa, Assistant  
Officer



Prof Dingie  
van Rensburg  
(CHSR&D), Professor  
Extraordinary



Prof Helen Schneider  
(School of Public  
Health, University of the  
Western Cape), Professor  
Extraordinary



Prof Herman Meulemans  
(Department of  
Sociology, University  
of Antwerp), Senior  
Research Associate



Prof Edwin Wouters (Research  
Centre for Longitudinal  
and Life Course Studies,  
Department of Sociology,  
University of Antwerp)

## SENIOR RESEARCH ASSOCIATES



Prof André Pelser  
(Department of  
Sociology, UFS)



Dr Francois Steyn  
(Department of Social  
Work and Criminology,  
University of Pretoria)



Dr Kerry Uebel  
(FSDoH; Department  
of Internal Medicine,  
UFS)



Letshego Nophale  
(FSDoH)



Dr Hlengiwe Mdebuka  
(Centre for Infectious  
Disease Epidemiology and  
Research, University of Cape  
Town)

## RESEARCH ASSOCIATES

# Staff achievements

Prof Dingie van Rensburg was rated as Category B (Considerable international recognition for high quality and impact of recent research outputs) by the National Research Foundation (NRF).

Prof Christo Heunis was rated as Category C (Established researcher) by the NRF. He was appointed as member of the Health Systems Trust's Health Systems Research (HSR) Sub-committee, as member of the Free State (Department of Health) Provincial Health Research Committee, and served as reviewer in the NRF South African Research Chairs Initiative (SARChI) Phase I Pre-proposal Review Panel and Phase II Full Proposal Review Panel: Health Systems, Complexity and Social Change in the Health Sciences Field.

# Staff development initiatives

Prof Christo Heunis attended the Primer in Systematic Reviews & Research Synthesis. Effective Health Research Consortium. Namibia Polytechnic, American International Health Alliance (AIHA) HIV/AIDS Twinning Center, Windhoek, Namibia, 20-23 November.

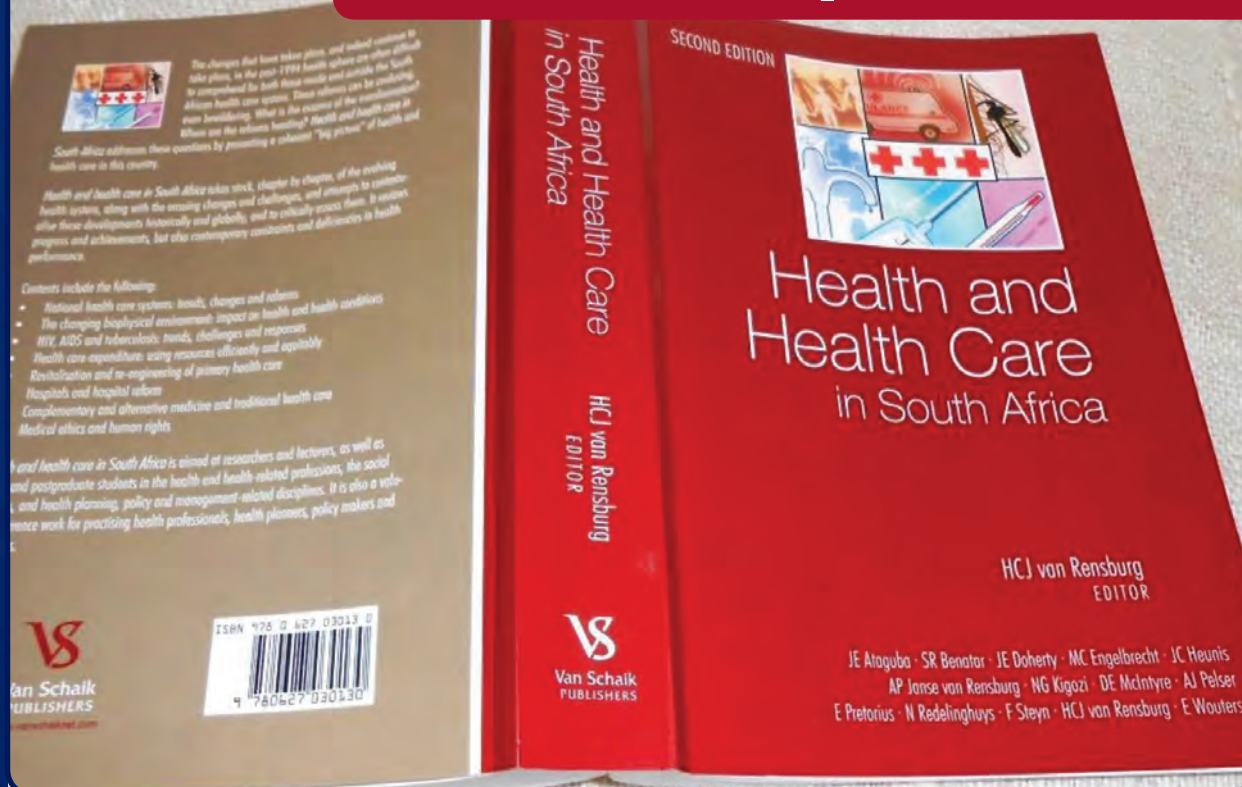
Belinda Jacobs and Bridget Smit attended courses on Professional telephone etiquette (28 May), Customer service (4-5 June), Excel and Word 2010 (28 August – 17 September) and Optimum performance skills development (3-5 September). UFS.

Ega Janse van Rensburg-Bonthuyzen completed an SPSS Level 1 course. UFS, 25 October – 15 November.

Dr Gladys Kigozi attended postdoctoral leadership training at the Action Health Incorporated (AHI) in collaboration with the African Population and Health Research Center (APHRC). Lagos, Nigeria, 2-4 May.

Dr Asta Rau and André Janse van Rensburg attended a workshop on Critical Realism: An Introduction, presented by Prof Roy Bhaskar. International Conference on Critical Realism, Rhodes University, 16-21 July.

# Completed Projects



Book: *Health and Health Care in South Africa* (Second updated edition)

**Editor:** Prof Dingie van Rensburg

**Authors and co-authors of chapters:**

**UFS authors/co-authors:** Dr Michelle Engelbrecht, Prof Christo Heunis, André Janse van Rensburg, Dr Gladys Kigozi, Prof Dingie van Rensburg (all CHSR&D); Prof André Pelser, Dr Nola Redelinghuys (both Department of Sociology, UFS), Prof Engela Pretorius (Faculty of the Humanities)

**University of Cape Town:** Dr John Ataguba (Health Economics Unit, Department of Public Health and Family Medicine), Prof Solomon Benatar (Bioethics Centre), Prof Diane McIntyre (Health Economics Unit, Department of Public Health and Family Medicine)

**University of the Witwatersrand:** Dr Jane Doherty (School of Public Health)

**University of Pretoria:** Dr Francois Steyn (Department of Social Work and Criminology)

**University of Antwerp:** Prof Edwin Wouters (Research Centre for Longitudinal and Life Course Studies, Department of Sociology)

**Background, aims and objectives:** It has been eight years since the launch of the first edition of *Health and Health Care in South Africa* (2004), and it is fitting that a revised and updated version sees the light during the 19<sup>th</sup> anniversary of CHSR&D's establishment. While still encompassing the original substance of the 2004 edition, the book set out to describe and analyse the major health and health systems trends and changes that have taken place in South Africa during the past decade. It explicitly aims to historically and globally contextualise the evolving health system and its changes and challenges with a critical overview.

The book thus provides a socio-historical perspective of developments in the health system, to analyse post-1994 reform policies and legislation, and to review progress, achievements, constraints and deficiencies in past and current health performance. This edition serves as a reinforcement of the credentials of *Health and Health Care in South Africa* (2004) as an authoritative reference source in the areas of health and health systems research.

**Content:** The book consists of 12 substantially revised and updated chapters each portraying a coherent whole that illustrates the complexity and diversity of health and health care in South Africa. Conceptually the book is divided into five themes, which covers, first, South African health care in global context; second, the South African health care system and its transformation; third, the health conditions, health and health status of South Africans; fourth, main components South African health care and their transformation; and fifth, ethical perspectives on health care in South Africa. Together these themes and the individual chapters feed into the two main foci of the book as explicated by its title, namely the health care system and the health of the population.

The first theme, *South African health care in global context*, is covered by Chapter 1, *National health care systems: structure, dynamics and types*. It sets out to present a conceptual framework along with tools to analyse and interpret the nature, functioning and dynamics of health systems, while providing an overview of different health care systems, their environments, beneficiaries and main trends.

The second theme, *The South African health care system and its transformation*, is covered by Chapter 2, *A history of health and health care in South Africa: 1652-1994* and Chapter 3, *Transformation of the South African health system: post-1994*. These chapters have a historical focus, and analyse the evolution of the South African health system across two periods, the first being the pre-1994 dispensation and the second the post-1994 evolution of the system.

The third theme relates to *The health conditions, health and health status of South Africans*, and spans across three chapters: Chapter 4, *The health, environment and development nexus in South Africa*; Chapter 5, *Health and health status of the South African population*; and Chapter 6, *HIV, AIDS and tuberculosis in South Africa: trends, challenges and responses*. This part deals especially with health and illness in the South African population, against a background of a unique societal context, wide-ranging disparities in the distribution of wealth, development and health, and increasing exposures to stress.

The fourth theme is concerned with the *Main components of South African health care and their transformation*,

informed by five chapters. These include Chapter 7, *Human resources for health and the health professions in South Africa*; Chapter 8, *Health care financing and expenditure: post-1994 progress and remaining challenges*; Chapter 9, *Primary health care: nature and state in South Africa*; Chapter 10, *Hospitals and hospital reform in South Africa*; and Chapter 11, *Complementary and alternative medicine and traditional health care in South Africa*. The emphases fall on the different components of the South African health system, their composition and dynamics, as well as the changes effected on these components by a new democratic dispensation.

The last theme of the book, *Ethical perspectives on health and health care in South Africa*, is covered by Chapter 12, *Perspectives from bioethics on health care challenges for South Africa*, and aims to provide insight in the meaning of ethics in health and health care, and as it relates to the previous chapters, thereby highlighting important enduring and contemporary ethical issues faced by actors in health and health care.

**Publication:** The book was published by Van Schaik Publishers in October.

## Implementation and evaluation of workplace-based programmes for HIV and TB prevention and care

**Project leader:** Prof Annalee Yassi (University of British Columbia [UBC], Canada)

**UBC staff:** Prof Jerry Spiegel, Dr Elizabeth Bryce, Dr Diane Roscoe, Lyndsay O'Hara, Steve Barker, Alex Liautaud, Rabia Khan

**CHSR&D staff:** Dr Michelle Engelbrecht, Dr Asta Rau, Dr Gladys Kigozi, Ega Janse van Rensburg-Bonthuyzen, Nandipha Jacobs, André Janse van Rensburg, Belinda Jacobs, Bridget Smit

**Department of Community Health (UFS) staff:** Prof Willem Kruger

**Department of Informatics and Computer Science (UFS) staff:** Dr Eduan Kotze

**FSDoH staff:** Letshego Nophale (Provincial Occupational Health Unit), Dr Kerry Uebel (Centre of Excellence, Pelonomi Hospital)

**Background and aims:** In recognition of the pivotal role of health care workers in preventing illness and caring for the ill, international efforts are underway to improve access of health care workers to HIV prevention, treatment and care. Moreover, HIV-infected health care workers are at higher risk of morbidity due to occupational exposure to TB and other pathogens. Improvement of infection control in health care is thus essential to protect health care workers as well as patients. Furthermore, the challenges in human resources for health merits prioritising health care workers. Thus, building capacity to improve working conditions for health care workers, and specifically for building capacity to design, implement and evaluate workplace-based interventions to decrease the burden of HIV and TB within

African health care workplaces, is well-warranted. For these reasons, it was decided to develop and deliver a Certificate Programme for health care providers in a very high HIV and TB burden area, aimed at building their understanding of the content and methods required to conduct and evaluate workplace-based HIV and TB prevention intervention initiatives.

**Research strategy and progress:** Recruitment, planning, and implementation of the programme was successful. Participants committed to attend three four-day in-class sessions, as well as to design, implement, and evaluate a relevant project. The first contact session took place in April 2011, the second in September 2011 and the third in May 2012. The participants formed eight groups to conduct research projects in their respective workplaces on a theme related to HIV and TB prevention. Mentors from UBC, CHSR&D and FSDoH were assigned to each group. Research themes included:

- Improving utilisation of workplace HIV/AIDS programme for health care workers at Pelonomi Hospital (Group 1).
- Reducing the risk of DOTS supporters acquiring TB during home visits in Bloemfontein and Welkom (Groups 2 and 3).
- Creating a safe environment for patients and staff in the Bronchoscopy theatre at Universitas Academic Hospital (Group 4).
- Investigating TB infection control practices in the medical outpatient department at Pelonomi Hospital (Group 5).

- Improving reporting of blood and body fluid exposures in the workplace in Thebe District Hospital (Group 6).
- Establishing an effective system to prevent, identify and treat TB in employees at Universitas hospital (Group 7).
- Improving infection control and safety practices in the Central Laundry (Group 8).

and Medical Microbiology), the National Department of Public Service and Administration, the National Institute for Occupational Health, the International Labour Organisation, FSDoH including HIV/AIDS and TB managers and human resources officials, CEOs of local hospitals, nursing services managers, occupational health coordinators and practitioners, union representatives, and family and friends of the Certificate Programme participants.

Of the 31 participants who commenced with the Programme in April 2011, 28 received certificates on 17 May 2012. Approximately 100 guests attended the function and delegates included UFS management and academics (from the UFS School of Nursing, Department of Community Health

**Funding:** This work was carried out with support from the Global Health Research Initiative, a research funding partnership composed of the Canadian Institutes of Health Research, the Canadian International Development Agency, and the International Development Research Centre.



*Nombulelo Myeko,  
Bernice Tlhapuletsa,  
Dimakatso Ntola, Ntsoaki  
Brandsef (all FSDoH)*



*Dr Gladys Kigozi (CHSR&D),  
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Mildred Litsoane (both  
FSDoH)*



*Dr Kerry Uebel (FSDoH  
& CHSR&D) and Prof  
Annalee Yassi (UBC)*

# ONGOING PROJECTS

## Non-uptake of HIV counselling and testing among TB patients – Part II: Evaluation of professional and community health worker training and mentoring interventions to improve TB patients' uptake of HIV counselling and testing in the Free State

**Principal investigator:** Prof Christo Heunis (CHSR&D)

**CHSR&D staff:** Ega Janse van Rensburg-Bonthuyzen, Dr Gladys Kigozi, Nandipha Jacobs, Dr Michelle Engelbrecht, Dr Asta Rau, Belinda Jacobs, Theresa Neuhoff, Bridget Smit, Jo-Ann Lebaka-Ntloa

**Background and aims:** This project is a Public Health Evaluation (PHE) in the form of a quasi-experiment and uses a pre-post intervention comparative design. The aim is to increase the uptake of HIV counselling and testing (HCT) by TB patients through implementing, evaluating and comparing the (cost-) effectiveness of three different training and mentoring interventions among professional nurses and community health workers (CHWs). The PHE is taking place in four sub-districts in the Free State, randomly assigned to intervention and control groups. The CHSR&D is conducting this project in partnership with the Tuberculosis Management Directorate and the HIV & AIDS/STI and CDC Directorate of FSDoH, and as training partners, 1) University Research Co, LLC (URC-SA); 2) the National Institute for Communicable Diseases (NICD); and 3) Right to Care.

**Research strategy and progress:** Three training and mentoring interventions will be implemented in 2013: the *first*, training and mentoring of professional nurses in provider-initiated counselling and testing (PICT); the

*second*, training and mentoring of CHWs to encourage and counsel TB patients to undergo HIV testing and to teach them to administer and interpret the HIV rapid test; and the *third*, training and mentoring on both of these models. Measuring the impact of training and mentoring interventions include, *firstly*, interviews with nurses, CHWs and patients, respectively deployed at, linked to and treated at facilities selected for intervention and control; *secondly*, collection of patient-specific TB, HIV and HCT and routine programme statistics at clinics; and *thirdly*, collecting costing information in order to measure the cost and cost-effectiveness of the different interventions.

The baseline survey was completed in 2012. A total of 1 100 patients, 45 nurses and 206 CHWs were interviewed across 38 clinics in the four sub-districts. The baseline data is currently being analysed and written up. Training is expected to be completed by April 2013, upon which a six-month mentoring period will follow and the follow-up survey will be conducted towards the end of 2014.

**Funding:** The project is funded by the Centers for Disease Control and Prevention; the American International Health Alliance HIV/AIDS Twinning Center, and the National Research Foundation.



Dumisani Mhlongo (NICD) training CHWs on HIV testing in Dihlabeng Sub-district

# Tool, weapon or white elephant? Assessing the application of a state-of-the-art information system created for use in occupational health in South Africa

**Project leader:** Prof Jerry Spiegel (UBC)

**UBC staff:** Prof Annalee Yassi, Dr Elizabeth Bryce, Lyndsay O'Hara, Steve Barker, Rabia Khan

**CHSR&D staff:** Dr Michelle Engelbrecht, Dr Asta Rau, André Janse van Rensburg, Belinda Jacobs, Theresa Neuhoff, Bridget Smit, Jo-Ann Lebaka-Ntlola

**Department of Community Health (UFS) staff:** Prof Willem Kruger

**Department of Informatics and Computer Science (UFS) staff:** Dr Eduan Kotze

**FSDoH staff:** Lucky Nophale (Provincial Occupational Health Unit)

**Background and aims:** The goal of the project is to evaluate the use and the perceived usefulness and impact of introducing an occupational health information system (OHASIS – Occupational Health and Safety Information System) to improve the health, safety and overall well-being of health care workers in a setting where contextual factors have limited the systematic use of relevant information.

Specific objectives include to:

- Ascertain the purposes for which the information system (OHASIS) is used.
- Assess the process flow of information.
- Evaluate if information (from OHASIS) has resulted in reduced risk and other positive or negative outcomes.
- Identify and compare the perceptions of various stakeholders regarding the ease of use and utility of OHASIS.
- Assess the factors encountered in the process of technology transfer to the research site from the Canadian context.

**Research strategy and progress:** This project is a longitudinal pre-post mixed method study with experimental and control sites (Pelonomi and Universitas Hospitals as the experimental sites and Bongani Hospital as the control site). At the start of 2012, a questionnaire survey was conducted amongst a 20% sample of all staff working at the three hospitals to profile knowledge, attitudes and practices regarding occupational safety and health in the workplace. The total staff component was 5 080 workers and 975 (19.5% sample of the total population) of these either completed a self-administered questionnaire or opted for an interview. Of the 975 workers, 462 were not directly involved with patient care (e.g. cleaners, messengers, porters and administrative staff) and 513 were health care workers (e.g. doctors, nurses and therapists).

**Findings:** It is a concern that of the health care workers directly caring for patients, 23% were not adequately protected from Hepatitis B; 45% never vaccinated from

influenza; 65% had never been screened for TB at work; and 21% had a needle stick injury or exposure to body fluids during the past two years. Workers not directly involved with patient care were also not well protected from possible infections: 42% were not vaccinated against Hepatitis B; 42% never vaccinated against influenza; and 67% never screened for TB. Overall, health and safety practices were not well implemented by health care workers at the three hospitals: 22% did not wash hands between caring for different patients; 46% washed and reused gloves; 63% recapped needles; and 68% did not wear N95 respirators when the situation called for it. Furthermore, 57% of health care workers and 39% of the remaining hospital workers did not feel safe from violence while at work.

Feedback sessions were held at all three hospitals as well as with concerned trade unions. During 2013, a survey will be conducted amongst the users of OHASIS to determine who are using the system, for what purposes and the usefulness thereof.

**Funding:** Canadian Institute of Health Research.



## Operational Research Assistance Project (ORAP): Assessment of factors associated with high two-month sputum smear non-conversion of new smear-positive tuberculosis patients in the Free State Province

**Mentor:** Prof Nulda Beyers (Desmond Tutu TB Centre, Stellenbosch University)

**Principal investigator (all nine provinces):** Brenda Smuts (Desmond Tutu TB Centre, Stellenbosch University)

**Principal investigators (Free State Province):** Sonja van der Merwe (Tuberculosis Management Directorate, Free State; Department of Health) and Prof Christo Heunis (CHSR&D)

**FSDoH researcher:** Dr Perpetual Chikobvu (Health Information, Research and Training Directorate)

**CHSR&D researcher:** Dr Gladys Kigozi

**Background and aims:** The Desmond Tutu TB Centre, with the support of the United States Agency for International Development-funded TREAT TB Initiative, is implementing a four-year Operational Research Assistance Project (ORAP), in which a series of academic institution-government health programme partnerships have been established as the basis for a programme of operational research development and implementation. The goal is to build the operational research skills of South African health care professionals at local, provincial, and national levels while carrying out much-needed TB-related operations research in each province. In the Free State, the provincial TB Management Directorate, the Health Information, Research and Training Directorate and the CHSR&D are partnering to examine the factors that contribute to a high two-month smear non-conversion rate among treated new smear-positive TB patients. The project addresses one of the national TB research priorities for 2010-2011. While research associates persistent sputum positivity with increased TB treatment failure/relapse, there is little understanding of the factors associated with increased risk for two-month sputum

smear non-conversion in the South African context. The current study, *firstly*, seeks to determine these factors in a population of new sputum smear positive TB patients in the Free State Province, and *secondly*, examines sex-specific trends in two-month sputum smear non-conversion in new sputum smear-positive TB patients.

**Research strategy and progress:** A record review was conducted on routine administrative data (2003-2009) to compare sputum smear converting and non-converting patients in respect of the above-mentioned independent variables. The quantitative design thus entails a record review and analysis of the data for the entire population of new smear-positive pulmonary TB diagnosed patients in the provincial TB database from January 2003 to December 2009. Information was obtained by extracting the variable information from the provincial TB routine database. Data analysis has been completed. Succinctly, it was established that overall two-month sputum smear non-conversion rates were 12.5% in males and 9.3% in females. Non-conversion was statistically significantly ( $p < 0.001$ ) associated with age and district in males, but only with district in females. Non-conversion rates declined from 2003 to 2009. The average rate of decline of non-conversion was higher among females at 1.0% than among males at 0.8%. By 2009, males had 60.0% higher risk of non-conversion than females. Two manuscripts have been submitted to peer-reviewed journals.

**Funding:** TREAT TB, International Union Against Tuberculosis and Lung Disease and United States Agency for International Development.



Left: Nellie Gqwaru (United States Agency for International Development), Don Enarson (International Union Against Tuberculosis and Lung Disease), Brenda Smuts (Desmond Tutu TB Centre, Stellenbosch University), Nicros Mngomezulu (Mpumalanga Department of Health), Sonja van der Merwe (FSDoH), Muhammad Osman (Cape Town Health Services) and Sue-Ann Meehan (Desmond Tutu TB Centre)



# NEW PROJECTS

## Implementing and evaluating a workplace TB and HIV screening and treatment programme for health care workers: A randomised controlled trial in the Free State, South Africa

**Principal Investigator (Canada):** Prof Annalee Yassi (UBC)

**Principal Investigator (South Africa):** Dr Kerry Uebel (Centre for Excellence, FSDoH, CHSR&D)

**CHSR&D team:** Dr Michelle Engelbrecht, Dr Asta Rau, Dr Gladys Kigozi, Prof Christo Heunis, Ega Janse van Rensburg Bonthuyzen, André Janse van Rensburg, Nandipha Jacobs, Theresa Neuhoff, Bridget Smit, Jo-Ann Lebaka-Ntlola, Belinda Jacobs

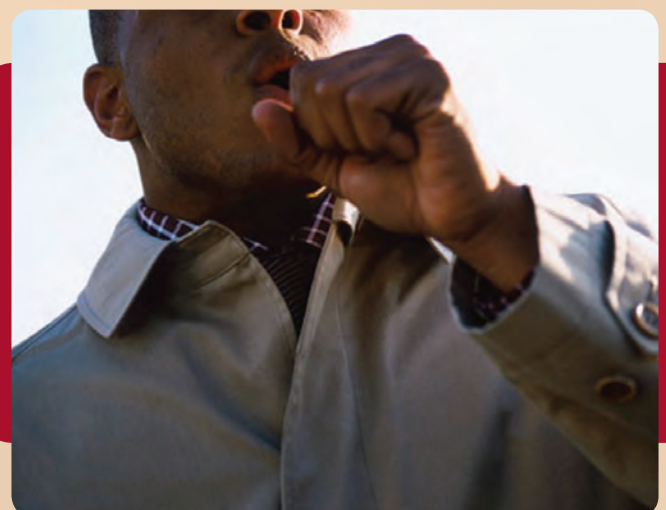
**FSDoH team:** Letshego Nophale (Provincial Occupational Health Unit), Dr Perpetual Chikobvu (Health Information, Research and Training Directorate)

**UBC team:** Prof Jerry Spiegel, Dr Elizabeth Bryce, Lyndsay O'Hara, Dr David Moore, Dr Jane Buxton, Dr Mark FitzGerald, Dr Carlo Marra

**Background and aims:** This initiative developed out of findings from a series of research projects on occupational health and safety (OHS) conducted over several years by the CHSR&D in partnership with the Global Health Research Programme at the UBC in Canada, and the FSDoH. The trial is scheduled to begin in 2013. It investigates a neglected aspect of the public health system in South Africa—the health of health care workers (HCWs). More specifically the trial aims to address the high incidence of TB among HCWs in Free State public hospitals. TB has long been recognised as an occupational disease affecting HCWs. There are limited routine statistics on the incidence of TB amongst HCWs in South Africa, but a review of the literature suggests a higher incidence of TB among HCWs than in the general population. There are also no routine data on the prevalence of HIV among HCWs in South Africa. But assuming a similar HIV prevalence among HCWs as in the general population (estimated by UNAIDS as being 10.6% in 2011), and keeping

in mind the high rates of TB-HIV co-infection, we argue that it is vital to protect and care properly for HCWs by offering them easy-to-access TB and HIV testing as well as treatment. Recent research in three large Free State hospitals found that HCWs perceived a lack of confidentiality at occupational health units (OHUs) and thought that HIV-TB stigma in the workplace was unacceptably high. These three issues – TB testing and treatment, HIV testing and treatment, and TB-HIV stigma in the workplace – as they relate to health care workers accessing occupational health units, are the key foci of this trial.

**Funding:** Canadian Institute of Health Research.



# Mosamaria AIDS Ministry: Evaluation of the Orphans and Vulnerable Children's (OVC) programme in Bloemfontein and Botshabelo

**Project leader:** Dr Asta Rau

**CHSR&D staff:** André Janse van Rensburg, Dr Gladys Kigozi, Nandipha Jacobs, Prof Christo Heunis, Jo-Anne Lebaka-Ntloa, Theresa Neuhoff, Belinda Jacobs

**Department of Sociology (UFS) staff:** Prof Jan Coetzee

**Counselling Centre (UFS) staff:** Kurhula (Penny) Mathumbu

**Background and aims:** Mosamaria AIDS Ministry, founded in 2003, is a registered Non-profit Organisation (NPO) and Faith Based Organisation (FBO) working with disadvantaged communities in Bloemfontein and Botshabelo. The evaluation focuses on Mosamaria's Orphans and Vulnerable Children (OVC) programme, which serves 650 children. It aims to provide Mosamaria with research-based evidence on programme implementation, outcomes, programme logic and design in terms of fitness-to-purpose, effectiveness, relevance, and sustainability. The information generated can be used by Mosamaria to plan strategically for the development and ongoing improvement of the OVC programme. It will also provide a strong evidence base to support future funding applications and assist donor decisions in a funding climate characterised by (1) a diminishing pool of funds for HIV/AIDS, and (2) donors that favour and fund proposals with a strong evidence-base.

**Research strategies:** Initial meetings and a scan of records confirmed that the programme is evaluable. All key components of the programme are being evaluated: (1) access to and support for food security; (2) general healthcare; (3) child protection; (4) educational support; (5) economic strengthening of the family; and (6) psychosocial support. There are several approaches in the design. Because the programme has never been evaluated before, an assessment-oriented process evaluation was selected to lead the overarching design. This forms the basis for a full outcome evaluation. But to serve Mosamaria's need to know as much as possible about if and how the programme is performing, outcomes will be measured where possible. There is also a theory-driven component where the programme theory/rationale will be explored in order to (1) ascertain how, and how well, interventions match the desired processes and outcomes of the programme, and (2) identify internal and external assumptions underlying the programme logic. Importantly, an empowerment-participatory approach underpins the evaluation, which implies the meaningful involvement of Mosamaria staff at all stages.

**Funding:** UFS Office of the Director Research & Innovation, and UFS Strategic Academic Cluster for New Frontiers in Poverty Reduction and Sustainable Development.

## Factors that attract and retain doctors to work in rural areas in South Africa

**Principal investigator:** Dr André Rose (Department of Community Health, UFS)

**CHSR&D staff:** Ega Janse van Rensburg-Bonthuyzen, Bridget Smit, Jo-Ann Lebaka-Ntloa

**Background and aims:**

The study is a collaborative effort between the Department of Community Health and the CHSR&D. The shortage of doctors in the rural areas of South Africa is a formidable challenge. There are, however, doctors who are willing to work there despite these challenges. The aim of this qualitative cross-sectional study is to understand the factors that attract and retain these doctors to rural areas and to ultimately inform the development of strategies for improving the retention of doctors in these areas. An appreciative inquiry methodological approach was used during data collection through focus group discussions and in-depth interviews.

**Research strategy and progress:**

Data collection took place during the Public Health

Association of South Africa (PHASA) and Rural Doctor's Association of South Africa's (RuDASA) joint conference in Bloemfontein, 5-7 September among a purposive sample of 14 rural doctors who attended the event. Audio recordings of the interviews and focus group discussions were transcribed and content analysis is underway. An article has been submitted to a peer-reviewed journal.

**Funding:**

Department of Community Health and CHSR&D.





# PUBLICATIONS

## Book

Van Rensburg H CJ (Ed.)  
*Health and health care in South Africa* (2<sup>nd</sup> ed.). Pretoria:  
Van Schaik.

## Chapters in books

Engelbrecht MC & Van Rensburg H CJ

Primary health care: nature and state in South Africa. In  
Van Rensburg H CJ (Ed.). *Health and health care in South  
Africa* (2<sup>nd</sup> ed.). Pretoria: Van Schaik. (pp. 483-534).

Heunis JC & Janse van Rensburg AP

Hospitals and hospital reform in South Africa. In Van  
Rensburg H CJ (Ed.). *Health and health care in South  
Africa* (2<sup>nd</sup> ed.). Pretoria: Van Schaik. (pp. 535-591).

Heunis JC, Wouters E & Kigozi NG

HIV, AIDS and tuberculosis in South Africa: trends,  
challenges and responses. In Van Rensburg H CJ (Ed.).  
*Health and health care in South Africa* (2<sup>nd</sup> ed.). Pretoria:  
Van Schaik. (pp. 293-360).

Pelser AJ

The health, environment and development nexus in  
South Africa. In Van Rensburg H CJ (Ed.). *Health and  
health care in South Africa* (2<sup>nd</sup> ed.). Pretoria: Van  
Schaik. (pp. 189-236).

Van Rensburg H CJ

National health care systems: structure, dynamics and  
types. In Van Rensburg H CJ (Ed.). *Health and health  
care in South Africa* (2<sup>nd</sup> ed.). Pretoria: Van Schaik. (pp.  
1-60).

Van Rensburg H CJ

A history of health and health care in South Africa: 1652-  
1994. In Van Rensburg H CJ (Ed.). *Health and health care  
in South Africa* (2<sup>nd</sup> ed.). Pretoria: Van Schaik. (pp. 61-  
120).

Van Rensburg H CJ & Engelbrecht MC

Transformation of the South African health care system:  
post-1994. In Van Rensburg H CJ (Ed.). *Health and health  
care in South Africa* (2<sup>nd</sup> ed.). Pretoria: Van Schaik. (pp.  
121-188).

Van Rensburg H CJ, Heunis JC & Steyn F

Human resources for health and the health professions  
in South Africa. In Van Rensburg H CJ (Ed.). *Health and  
health care in South Africa* (2<sup>nd</sup> ed.). Pretoria: Van  
Schaik. (pp. 361-431).

## Refereed/peer reviewed-articles in accredited journals

Steyn F

Challenges facing diversion strategies in meeting the  
diversion objectives of the Child Justice Act (75 of  
2008). *Acta Criminologica Conference Special Edition*,  
2: 76-86.

Steyn F & Louw DA

Recreation intervention with adolescent offenders:  
Prospects and challenges in the South African context.  
*African Journal for Physical, Health Education,  
Recreation and Dance* 18(2): 420-430.

Steyn F, Louw, DA & Van Rensburg H CJ

Mentoring children guilty of first-time minor offences:  
principles, benefits and limitations. *Acta Academica*  
44(4): 106-133.

Wouters E, Van Damme W, Van Rensburg D, Masquillier C &  
Meulemans H

Impact of community-based support services on  
antiretroviral treatment programme delivery and  
outcomes in resource-limited countries: a synthetic  
review. *BMC Health Services Research* 12(2102), 194.

Wouters E

Life with HIV as a chronic illness: a theoretical and  
methodological framework for antiretroviral treatment  
studies in resource-limited settings. *Social Theory and  
Health* 10(4): 368-391.

Wouters E, Booysen FIR, Ponnet K & Van Loon F

Wording effects and the factor structure of the hospital  
anxiety & depression scale in HIV/AIDS patients on  
antiretroviral treatment in South Africa. *PLoS ONE* 7(4):  
e34881.

## Technical/research reports

Janse van Rensburg E, Stark R, Dakovic D, Munro A, Ferraz  
de Campos AM & Greenaway K

*Room to breathe: Four steps to reducing the spread  
of airborne tuberculosis infection*. Baltimore: Catholic  
Relief Services.

Yassi A & Engelbrecht M (contributing authors)

*Building capacity to design, implement and evaluate  
participatory action research projects: Decreasing the  
burden of HIV and promoting and protecting the health  
and safety of the health care workforce – A South  
African Canadian collaboration*. Bloemfontein: CHSR&D  
& UBC.



# PRESENTATIONS

## Refereed/peer-reviewed international conference presentations

Jacobs N, Booysen F & Wouters E

Sexual abstinence and the protective role of bonding social capital among antiretroviral treatment (ART) patients in Free State, South Africa: a prospective cohort study. (Poster presentation), Abstract number A-452-0283-16839. XIX International AIDS Conference. Washington DC, United States of America, 22-27 July.

Liautaud A, O'Hara LM, Engelbrecht M, Rau A, Bryce EA, Nophale L, Spiegel J & Yassi A

*Building capacity to design, implement and evaluate workplace-based HIV and tuberculosis programmes for the healthcare workforce: Evaluating the first two phases of a South African-Canadian Workplace-based Training Program.* (Oral presentation). Canadian Association for Research on Health (CARWH) Conference, Vancouver, Canada, 1-2 June.

Peters A, Heunis J, De Jager P, Mametja LD, Dlamini S & Chebab J

*The importance of adhering to World Health Organization and national infection control guidelines in a resource-limited country.* (Poster presentation). Abstract no. PC-531-15 *The International Journal of Tuberculosis and Lung Disease* 16(12) Supplement 1: S145. 43<sup>rd</sup> Union World Conference on Lung Health. Kuala Lumpur, Malaysia, 14-17 November.

Peters JA, Van der Walt M, Heunis JC, Baitsiwe PS & Osoba T  
*Barriers to implementing integrated TB/HIV service*

*delivery in an antenatal care facility in Frances Baard District, Northern Cape, South Africa.* (Oral presentation). Abstract no. OP-149-16 *The International Journal of Tuberculosis and Lung Disease* 16(12) Supplement 1: S207. 43<sup>rd</sup> Union World Conference on Lung Health, Kuala Lumpur, Malaysia, 13-17 November.

Rau A

*Translating research findings into strategic plans: the power and limitations of qualitative research and researcher.* (Oral presentation). Curiosity and serendipity – a conference on qualitative methods in the social sciences, Research network 20 of the European Sociological Association (ESA). Mid-term Conference, Lund University, Sweden, 20-21 September.

Van der Merwe S, Kigozi G, Chikobvu P & Heunis JC

*Two-month sputum non-conversion trends among male and female tuberculosis patients in the Free State, South Africa.* (Poster presentation). Abstract no. PC-763-17 *The International Journal of Tuberculosis and Lung Disease* 16(12) Supplement 1: S248. 43<sup>rd</sup> Union World Conference on Lung Health. Kuala Lumpur, Malaysia, 14-17 November.

Yassi A, Liautaud A, O'Hara L, Engelbrecht M, Rau A, Bryce E, Spiegel J, Nophale L & Uebel K

*Building capacity to design, implement and evaluate workplace-based HIV and tuberculosis programmes for the Healthcare Workforce: Evaluating the first phase of a South African-Canadian Collaboration.* (Oral presentation). International Commission on Occupational Health, Cancun, Mexico, 18-23 March.

## Other conference/feedback workshop presentations/invited lectures

- Brandse L, Myeko N, Ntloa M, Tlhapuletsa F, Rau A & Khan R  
*Investigating Occupational Health and Safety (OHS) at Pelonomi Hospital in the Free State: Staff perceptions of OHS services, use of services for HIV and TB, and stigma in the workplace.* (Poster presentation). Free State Provincial Department of Health Research Day, UFS, Bloemfontein, 7 June.
- Engelbrecht M, Spiegel J, Nophale L, Yassi A, Lockhart K & Janse van Rensburg A  
*Protecting the health of health care workers at one tertiary and two regional hospitals in the Free State Province.* (Oral presentation). Joint Conference of the Public Health Association of South Africa (PHASA) and the Rural Doctors Association of South Africa (RuDASA). Bloemfontein, 5 - 7 September.
- Engelbrecht M & Janse van Rensburg A  
*What have we learned from the baseline questionnaire survey? Tool, weapon or white elephant? Assessing the application of a state-of-the-art information system created for use in occupational health in South Africa (OHASIS).* (Oral presentation). Feedback at Pelonomi Hospital, Bloemfontein, 28 August.
- Engelbrecht M & Janse van Rensburg A  
*What have we learned from the baseline questionnaire survey? Tool, weapon or white elephant? Assessing the application of a state-of-the-art information system created for use in occupational health in South Africa (OHASIS).* (Oral presentation). Feedback at Bongani Hospital, Welkom, 30 August.
- Engelbrecht M & Janse van Rensburg A  
*What have we learned from the baseline questionnaire survey? Tool, weapon or white elephant? Assessing the application of a state-of-the-art information system created for use in occupational health in South Africa (OHASIS).* (Oral presentation). Feedback at Universitas Hospital, Bloemfontein, 3 September.
- Heunis C, Engelbrecht M, Kigozi G & Wouters E  
*Acceptance of HCT services by TB patients: a qualitative study with CCGs and Programme Managers in two Free State districts.* (Oral presentation). Free State Provincial Department of Health Research Day. Bloemfontein, 7 June.
- Heunis C, Janse van Rensburg-Bonthuyzen E, Engelbrecht M, Kigozi G, Jacobs N, Wouters E & Van Rensburg D  
*The readiness of community caregivers to provide HCT services to TB patients in three local municipalities in the Free State.* (Oral presentation). Symposium on Community Health Workers, University of Western Cape, Cape Town, 7 June.
- Heunis C & Kigozi NG  
*Public health evaluation of training and mentoring interventions to improve TB patients' uptake of HCT in the Free State: where are we now?* (Oral presentation). Free State Provincial Department of Health Research Day, UFS, Bloemfontein, 7 June.
- Janse van Rensburg-Bonthuyzen E, Jacobs N, Kigozi NG, Rau A & Engelbrecht M  
*Task-shifting in practice: activities performed and training and supervision of community health workers in three Local Service Areas of the Free State.* (Oral presentation). Joint Conference of the Public Health Association of South Africa (PHASA) and the Rural Doctors Association of South Africa (RuDASA), Bloemfontein, 5-7 September.
- Kigozi NG, Heunis JC, Van der Merwe S, Chikobvu P, Janse van Rensburg AP, Rau A & Janse van Rensburg-Bonthuyzen E  
*Two-month sputum smear non-conversion among TB patients in the Free State: implications for programme management.* (Oral presentation). Joint Conference of the Public Health Association of South Africa (PHASA) and the Rural Doctors Association of South Africa (RuDASA), Bloemfontein, 5-7 September.
- Kigozi NG, Heunis C & Engelbrecht MC  
*TB patients' reasons for, and suggestions to address non-uptake of HIV testing in the Free State, Republic of South Africa.* (Oral presentation). Free State Provincial Department of Health Research Day, UFS, Bloemfontein, 7 June.
- Nkoko L, Rau A & Spiegel J  
*Blood and body fluid exposure in the workplace* (Oral presentation). Free State Provincial Department of Health Research Day, UFS, Bloemfontein, 7 June.
- Van der Merwe S, Kigozi G, Chikobvu P, Heunis C & Beyers N  
*Two-month sputum non-conversion trends among male and female TB patients in the Free State, South Africa.* (Oral presentation). Desmond Tutu TB Centre Pre-Union Meeting Symposium, Stellenbosch University, Stellenbosch, 17 October.



## POSTGRADUATE SUPERVISION AND COURSES PRESENTED

### Completed doctoral degree studies – with supervisors

Wilke M

PhD (Nursing): *Models of care for antiretroviral treatment delivery: a faith-based organisation's response.* Prof Yvonne Botma (School of Nursing, UFS) and Prof Dingie van Rensburg (CHSR&D).

### Current doctoral degree studies – with supervisors

Gill W

PhD (Development Studies): *Understanding the impact of HAART on sexual behaviour in Botswana.* Prof Christo Heunis (CHSR&D), Prof Lucius Botes (Faculty of the Humanities, UFS) and Dr Florence Tadi (Department of Psychology, UFS).

Jacobs N

PhD (Development Studies): *Individual and situational determinants of sexual risk behaviour during the scale-up of antiretroviral treatment in the Free State.* Prof Frikkie Booysen (Department of Economics, UFS) and Prof Edwin Wouters (Department of Sociology and Research Centre for Longitudinal and Life Course Studies, University of Antwerp).

Uebel K

PhD (Internal Medicine): *Developing, implementing and evaluating a practical approach to integrating HIV care into primary health care services in the Free State.* Prof Willie Mollentze (Department of Internal Medicine, UFS) and Prof Dingie van Rensburg (CHSR&D).

### Completed master's degree studies – with supervisors

Hamayanda P

MDS: *Defining the role of home-based caregivers in the era of ART: A case study of George Compound in Lusaka, Zambia.* Ega Janse van Rensburg-Bonthuyzen (CHSR&D).

Kurian M

MDS: *An appraisal of the National Inter-Governmental HIV and AIDS Research Collaboration Portfolio (NIHARCP).* Prof Christo Heunis (CHSR&D).

Mawoneke S

MDS: *An investigation into the effectiveness of Childline North West's referral service.* Supervisor: Dr Francois Steyn (Department of Social Work and Criminology, University of Pretoria, CHSR&D Research Associate).

Maphosa M

MDS: *Child participation in decision-making at the Mukomberanwa Orphans and Vulnerable Children Project in Mutare, Zimbabwe.* Dr Francois Steyn (Department of Social Work and Criminology, University of Pretoria, CHSR&D Research Associate).

Mkandawire EPG

MDS: *Exploring perceptions of risk to HIV and sexual behaviour of traditionally circumcised men in Zomba District, Malawi.* André Janse van Rensburg and Prof Christo Heunis (both CHSR&D).

Mpofu S

MDS: *Exploring the meaningful involvement of people living with HIV and AIDS (MIPA) – and the effects of stigma and the capacity of people living with HIV/AIDS*

on MIPA – in Zimbabwe’s HIV response: the case of Central and Western Districts, Harare Province. Dr Asta Rau (CHSR&D).

Murandu C

MDS: *Correlates of male participation in the Prevention of Mother-to-Child Transmission (PMTCT) Programme at Seke North Clinic, Makoni Suburb, Chitungwiza, Zimbabwe.* Prof Christo Heunis (CHSR&D).

Ochieng JO

MDS: *Identifying the gaps in care and support services for OVC in Kisumu West District, Kenya.* Ega Janse van Rensburg-Bonthuyzen (CHSR&D).

## Current master’s degree studies – with supervisors

Allingham R

MDS: *Appropriate interventions for the City of Cape Town Metro District Health Service to address the high rate of teenage pregnancy in the Eastern sub-District.* Dr Michelle Engelbrecht (CHSR&D).

Gwara S

MDS: *The impact of inadequate water supply and sanitation on people’s health: a case study of Budiro 5 high density suburb of Harare Metropolitan Province, Zimbabwe.* Prof Christo Heunis and Dr Gladys Kigozi (both CHSR&D).

Hasonga N

MDS: *The perceived health consequences of gender based violence among women supported by Plan International in Chibombo District in Zambia.* Prof Christo Heunis (CHSR&D).

Khan R

MSc at UBC: *Stigma: Barrier to uptake of HIV counselling and testing in occupational settings among healthcare workers in Free State Province, South Africa (Provisional title).* Prof Annalee Yassi, Dr David Moore, Dr Jane Buxton (all UBC) and Dr Asta Rau (CHSR&D).

Makgoe MIK

MDS: *Evaluating the use of PHC mobile clinics as a strategy to improve health care in the Motheo District.* Dr Michelle Engelbrecht (CHSR&D).

Maphosa T

MDS: *Elimination of Paediatric HIV a reality? An interim assessment of the implementation of the PMTCT program in Mutare, Zimbabwe.* Dr Asta Rau (CHSR&D).

Masango M

MDS: *Sexuality education in the era of HIV/AIDS amongst adolescent girls: A case study of Zengeza high school in Chitungwiza high density suburb of Zimbabwe.* Dr Michelle Engelbrecht and Dr Gladys Kigozi (both CHSR&D).

Mashapa F

MDS: *Reasons for low uptake by men of voluntary counselling and testing (VCT) services in Swaziland: a case study of the New Start Programme. Master’s in Developmental Studies, Bloemfontein: UFS. Supervisors: Prof Christo Heunis and Dr Gladys Kigozi (both CHSR&D).*

Mudekunye I

MDS: *Pregnancy desires and fertility outcomes among adolescent HIV-infected women in Zimbabwe.* Dr Michelle Engelbrecht and Dr Gladys Kigozi (both CHSR&D).

Mhiti SB

MDS: *An evaluation of psychological support interventions – The case of orphaned and vulnerable children in the high density suburbs of Harare, Zimbabwe.* Dr Michelle Engelbrecht (CHSR&D).

Peresu E

MDS: *Kids having kids: determinants of teenage pregnancy among women attending antenatal services at Ubombo hospital, Swaziland.* Dr Gladys Kigozi and Prof Christo Heunis (both CHSR&D).

Sampa B

MDS: *Factors associated with men’s participation in antenatal care in Kankumba, Chongwe District, Zambia.* Ega Janse van Rensburg-Bonthuyzen (CHSR&D).

Sibaya-Chimedza I

MDS: *A case study evaluating the wife-accompaniment policy for long-distance truck drivers as a HIV and AIDS prevention strategy at Unifreight Pvt Ltd. in Zimbabwe.* Prof Christo Heunis (CHSR&D).

## Postgraduate and certificate training-courses presented

Prof Christo Heunis, Dr Michelle Engelbrecht, Dr Asta Rau, Dr Gladys Kigozi, Ega Janse van Rensburg-Bonthuyzen, Nandipha Jacobs and André Janse van Rensburg MDS 704 Applied Development Research. Centre for Development Support, UFS.

New modules focusing on the following themes have been developed for this course:

- Meaning, nature and magnitude of the health challenge.
- National, regional and international health agendas.
- The role of theory in health and development.
- Determinants of health.
- Introduction to health systems.
- HIV/AIDS and development in Africa.
- TB, TB/HIV and development in Africa.

Dr Michelle Engelbrecht, Dr Asta Rau, Dr Gladys Kigozi, André Janse van Rensburg, Ega Janse van Rensburg-Bonthuyzen and Bridget Smit (all CHSR&D) in partnership with UBC Implementation and evaluation of workplace-based programmes for HIV and TB prevention and care capacity-building certificate course for Department of Health occupational health practitioners. CHSR&D, April 2011 – May 2012.

# CERTIFICATE CEREMONY, 17 MAY



*Me Bernice Fusi Thapuletsa, Me Moteshewa Mabitle (both FSDoH) and Prof Lucius Botes (Faculty of the Humanities, UFS)*

*Angeli Rawat (UBC), André Janse van Rensburg (CHSR&D), David Jones (National Institute for Occupational Health)*



*Dr Annalee Yassi (UBC) and Dr Sipho Senabe (National Department of Public Services and Administration)*

*Dr Sipho Senabe (National Department of Public Services and Administration), Letshego Nophale (FSDoH and CHSR&D Research Associate) and André Janse van Rensburg (CHSR&D)*







# VISITORS TO THE CHSR&D

## Visitors from University of British Columbia

Alexandre Liautaud

To assist with the training of occupational health and safety workers on implementing and evaluating workplace-based programmes for HIV and TB prevention and care, as well as for data gathering for his Master's Degree, April – August.

Lyndsay O'Hara

To assist with the training of occupational health and safety workers on implementing and evaluating workplace-based programmes for HIV and TB prevention and care, May.

Rabia Khan

To assist with the training of occupational health and safety workers on implementing and evaluating workplace-based programmes for HIV and TB prevention and care, as well as for data gathering for her Master's Degree, May – June.

Prof Jerry Spiegel, Prof Annalee Yassi and Dr Diane Roscoe  
To train occupational health and safety workers on implementing and evaluating workplace-based programmes for HIV and TB prevention and care, May.

## Visitors from National Institute for Occupational Health

Dr Muzi Zungu and David Jones

To attend the Certificate Ceremony, 17 May.

## Visitor from International Labour Organisation

Simphiwe Mabhele

To attend the Certificate Course Ceremony, 17 May.

## Visitor from National Department of Public Services and Administration

Dr Siphon Senabe

To attend the Certificate Ceremony, 17 May.

## Visitor from University of Antwerp

Prof Edwin Wouters

To conduct research and participate in collaborative proposal development, 30 January – 8 February.

# VISITS OF CHSR&D STAFF TO INSTITUTIONS ABROAD



Prof Dingie van Rensburg

Visited Belgian universities during June to strengthen and expand academic and research collaboration. Colleagues at the following institutions were visited: University of Antwerp, Catholic University of Louvain, University of Ghent, and Prince Leopold Institute of Tropical Medicine.

## OTHER NEWSWORTHY EVENTS

Prof Christo Heunis

- Participated in the TB and HIV Research Summit, South African National AIDS Council (SANAC) and National Department of Health, Benoni, 19-20 March
- Represented the UFS Faculty of the Humanities on the UFS Faculty of Health Sciences Faculty Board
- Reviewed articles for *AIDS Care* and *Acta Academica*
- Reviewed proposals for the UFS Strategic Cluster: New Frontiers in Poverty Reduction and Sustainable Development
- Reviewed abstracts for the Joint Conference of the Public Health Association of South Africa (PHASA) and the Rural Doctors Association of South Africa (RuDASA) "Bridging the health divide: from Policy to Practice", Bloemfontein, 5-7 September
- Served as session rapporteur: TB-HIV: the promise of life but reality of death. Incorporated in Reid A. Rapporteur's report. 43<sup>rd</sup> Union World Conference on Lung Health. Kuala Lumpur, Malaysia, 14-17 November

André Janse van Rensburg and Ega Janse van Rensburg-Bonthuyzen

- Served as poster judges at the Joint PHASA and RuDASA Conference, Bloemfontein, 5-7 September.

Dr Asta Rau

- Served as a member of the UFS Faculty of Education Ethics Committee
- Served as a member of the UFS Health and Wellness Committee

Prof Dingie van Rensburg

- Reviewed articles for *Development Southern Africa* and *Global Health Action*
- Reviewed chapters for *South African Health Review 2013*





# GRATITUDE

With this *News Report*, we express our sincere gratitude to all those funders who in recent years, and especially during 2012, so generously supported the efforts of the CHSR&D in its endeavours to contribute to a better society and health system in the Free State and South Africa:

- African-Asian Society (AAS)
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- Canadian International Development Agency (CIDA)
- Canadian Institutes of Health Research (CIHR)
- Centers for Disease Control and Prevention (CDC USA, South Africa)
- Department for International Development (DfID, UK) via HLSP
- Deutsche Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ)
- Deutsche Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ) via Health Focus GmbH
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- Development Economics Research Group (DERG), World Bank
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- European Union (EU)
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- Ford Foundation
- Free State Department of Health (FSDoH)
- Global Health Research Initiative (GHRI)
- Health Systems Trust (HST)
- HIVCare (an operating division of Medicross Healthcare Group)
- Infectious Disease Epidemiology Unit (IDEU, University of Cape Town)
- International Development Research Centre (IDRC, Canada)
- International Projects Advisory Service (Ipas)
- International Union against Tuberculosis and Lung Disease ("The Union")
- Joint Economics, Aids and Poverty Programme (JEAPP)
- Medical Research Council of South Africa (MRC)
- National Research Foundation of South Africa (NRF)
- Netherlands Support Programme, World Bank
- Open Society Foundation for South Africa (OSF-SA)
- Programme to Support Pro-Poor Policy Development (PSPPD)
- Research Matters (IDRC)
- Save the Children (UK)
- South African-Flemish Bilateral Scientific and Technological Cooperation Programme
- South African Labour and Development Research Unit (SALDRU)
- State University of New York Downstate Medical Center (SUNY-DMC)
- Swiss Agency for Development and Cooperation (SDC)
- Technology, Research, Education and Technical Assistance for Tuberculosis (TREAT TB)
- United Nations Development Programme (UNDP)
- United States President's Emergency Plan for AIDS Relief (PEPFAR)
- United States Agency for International Development (USAID)
- University of British Columbia (UBC)
- University of the Free State (UFS)
- World Health Organization (WHO)
- WK Kellogg Foundation

**Centre for Health Systems Research & Development**  
**Sentrum vir Gesondheidsisteemnavorsing & Ontwikkeling**

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