

Centre for Evidence-based Health Care

Annual Activity Report 2017



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The Centre for Evidence-based Health Care (CEBHC) is a coordinating and directive institution for research and training of the Faculty of Medicine and Health Sciences, Stellenbosch University, in the field of evidence-based health care.



Vision

To be a centre of excellence in advancing evidence-informed health care in Africa and globally

Goals

- To conduct and support relevant systematic reviews and primary **research** related to evidence-informed health care
- To enhance evidence-informed health care knowledge, skills and practices through **training** of healthcare professionals and other stakeholders
- To promote the **uptake of current best evidence** in healthcare policy and practice
- To promote the optimal functioning and sustainable growth of the Centre for Evidence-based Health Care

Values and guiding principles

Excellence • Integrity • Credibility • Relevance • Collaboration

Chairperson's Foreword

The CEBHC is a beacon on the African continent in advancing evidence based health care at a local and increasingly through its collaborations on a more global scale.

In a world where the lines between fact, fiction, myth and fake news are blurred, driven largely by internet fabrications, the raison d'être for the endeavours of the Centre of Evidenced Based Health Care has become compelling necessity.

The CEBHC prides itself in its independence through generating the critical and relevant questions for rigorous research it conducts and the untainted sources of funding it obtains to do so. This enables it to speak truth to power, promote the best evidence in health care decision making and embed current best evidence in health care policy and practice.



Professor Usuf Chikte
Chair Governing Board
Centre for Evidence-based Health Care

Under the indefatigable leadership of the Director, Professor Taryn Young, we are provided in this annual report, evidence of an optimally functioning centre along a sustainable growth arc.

In the year under review the CEBHC has again exceeded expectations in terms of its outputs as measured against the strategic plan. The dynamic team continuously remoulds itself to meet the challenges of the times and in the process they have reshaped themselves into a credible and resilient research group. The CEBHC has grown from strength to strength and this report reflects the dedicated work of the team in research, knowledge translation and teaching.

The portfolio of work of the CEBHC continues to impact health and development. The Centre has strong collaborative links nationally, regionally and internationally, which serves as model for equitable and ethical partnerships.

We are grateful for the scholarship and support from alumni, students, members of the Governing Board, the Faculty of Medicine and Health Sciences, funders, collaborators and partners, among others, on our journey to better health for all on the basis of sound scientific evidence.

Deputy Chairperson's Foreword

Leadership means being ahead of the curve. This describes the Centre for Evidence Based Health Care, and is exactly where any international centre of research and development must be. The Centre was built as evidence-informed health care developed as a science, and stays at the forefront in Africa. This is both in research and training, as this report shows, through scientific publications, dissemination products and high level postgraduate training, delivered with rigor and independence.

The challenge as research becomes increasingly competitive is to maintain a generosity of spirit in an institution. This helps people learn, helps teams work well, and develops the supportive culture alongside rigor in the science essential to develop future scientists and health professionals.

For policy makers, this is a group to keep on speed dial. For funders, this is a group to support for excellence and value for money. For researchers, read this report and emulate - or better, join in.



Prof Paul Garner
Deputy Chairperson
Centre for Evidence-based Health Care

Governing Board

The work of the CEBHC is guided by the Constitution of the Centre. The Centre is managed by a Director and her Management Committee, while oversight is provided by a Governing Board.



GOVERNING BOARD

The governing body consists of the director of the Centre and five to six individuals including for instance the Dean, deputy-Dean for Research/Teaching/Community Service and -interaction Liaison, Head of the Department of Global Health, a representative of one of the other departments within the Faculty, an external expert in the field of EBHC and a representative of the National or Provincial Department of Health. The governing body meets annually and provides strategic oversight and direction to the Centre.

Board members

- Dr Tania Brodovcky
- Prof Usuf Chikte (Chairperson)
- Dr Therese Fish
- Prof Paul Garner (Deputy Chairperson)
- Prof Wilhelm Steyn
- Dr Krish Vallabhjee
- Prof Jimmy Volmink
- Prof Taryn Young (Director)

MANAGEMENT COMMITTEE

The management committee consisting of the Director, head of the Department of Global Health and two to three staff members meets regularly to discuss management issues. Specific individuals are co-opted when necessary, based on the agenda of the specific management committee meeting.

CEBHC impacting health care on various fronts



STRATEGIC GOAL

To conduct and support relevant systematic reviews and primary research related to evidence-informed health care

The CEBHC conducts high-quality, up-to-date systematic reviews aimed at improving health outcomes in vulnerable groups; conducts relevant and rigorous primary research and evaluation of knowledge translation strategies, teaching evidence-based health care (EBHC), methodological issues and health care strategies; and collaborates with and supports research conducted by postgraduate students, healthcare professionals and researchers. Centre staff supervise and provide methodological mentorship and support to various postgraduate, including postdoctoral, students. Annex 1 provides details of all research outputs.



Effective Health Care Research Consortium

In collaboration with national and international partners, the CEBHC, funded by the UK Department of International Development (DFID), aims to increase evidence-informed decision-making to improve health and health care for the poor in low- and middle-income countries (LMICs) via the Effective Health Care Research Consortium (EHCRC) (www.evidence4health.org). Together partners conduct systematic reviews on the effects of health care interventions relevant to LMICs; and identifying approaches to ensure dissemination and use of the results of systematic reviews in decision-making. We contribute to the Learning Initiative for experienced Cochrane authors (LIXA). Through this initiative senior review authors engage in a community of practice to promote methodological rigor of systematic reviews. This project has played an instrumental role in the establishment and formal registration of Cochrane Africa. This network has been working in the region for many years and was formally registered as a Cochrane entity in September 2017 at the Global Evidence Summit. <http://africa.cochrane.org/news/launch-cochrane-africa-global-evidence-summit-september-2017-cape-town-south-africa>. At the Global Evidence Summit in 2017 we showcased EHCRC methods in a special session (presentation videos available here <http://www.evidence4health.org/publications-and-multimedia/videos/>) and actively contributed in workshops and presentations <http://www.evidence4health.org/news/ehcrc-partners-at-the-global-evidence-summit-2017/>.

CEBHA+

Collaboration for Evidence-Based Healthcare and Public Health in Africa

The CEBHC, as part of a wider network of seven African and two German institutions, was successful in securing funding from the German Federal Ministry of Education and Research (BMBF) as part of the Research Networks for Health Innovation in Sub-Saharan Africa Funding Initiative. The Collaboration for Evidence-based Healthcare and Public Health in Africa (CEBHA+) is a 5-year project that aims to build long-term capacity and infrastructure for evidence-based healthcare and public health in sub-Saharan Africa, including primary research; evidence synthesis; and evidence-based policy-and-practice. CEBHA+ adopts a population perspective, which encompasses both prevention of disease and delivery of care. Research conducted as part of this project is focussed on screening for diabetes and hypertension, integrated models of care for diabetes and hypertension, population-level interventions to prevent diabetes and hypertension, and road traffic injuries. Key roles of the CEBHC include coordinating capacity development across the network, leading the research on integrated models of care, as well as promoting evidence-based policy and practice.

Taking stock of research evidence to inform UNAIDS 90-90-90 goals

The 90-90-90 UNAIDS strategy is very important to reducing and ultimately ending the global HIV epidemic. By 2020, the UNAIDS 90-90-90 strategy strives to diagnose 90% of all people with HIV, to provide antiretroviral therapy for 90% of those with a positive HIV diagnosis and to achieve undetectable HIV viral load in 90% of those on treatment. This strategy has been adopted by South Africa and forms the foundation of the current National Strategic Plan on HIV, STIs, and TB: 2017-2021. Achievement of the 90-90-90 UNAIDS strategy is reliant on the success of all the key aspects along the cascade of care, and for optimized services throughout the entire continuum of HIV care.

The CDC South Africa Prevention Branch, in collaboration with colleagues from the Care and Treatment Branch, noted significant “leakages” in the HIV care cascade, Figure 1. This promoted the establishment of a research collaboration between the CDC and the CEBHC as part of the bigger SUCCEED project. The CEBHC identified and appraised evidence-based interventions that could improve linkage to care in all newly diagnosed HIV-positive individuals and interventions that target specific key populations (sex workers, SW; men who have sex with men, MSM; transgender women, TGW; people who inject drugs, PWID) in South Africa to improve the uptake of HIV testing services, improve uptake of and adherence to pre-exposure prophylaxis (PrEP) in those who are HIV-negative, and improve uptake of and adherence to ART in those who are HIV-positive.

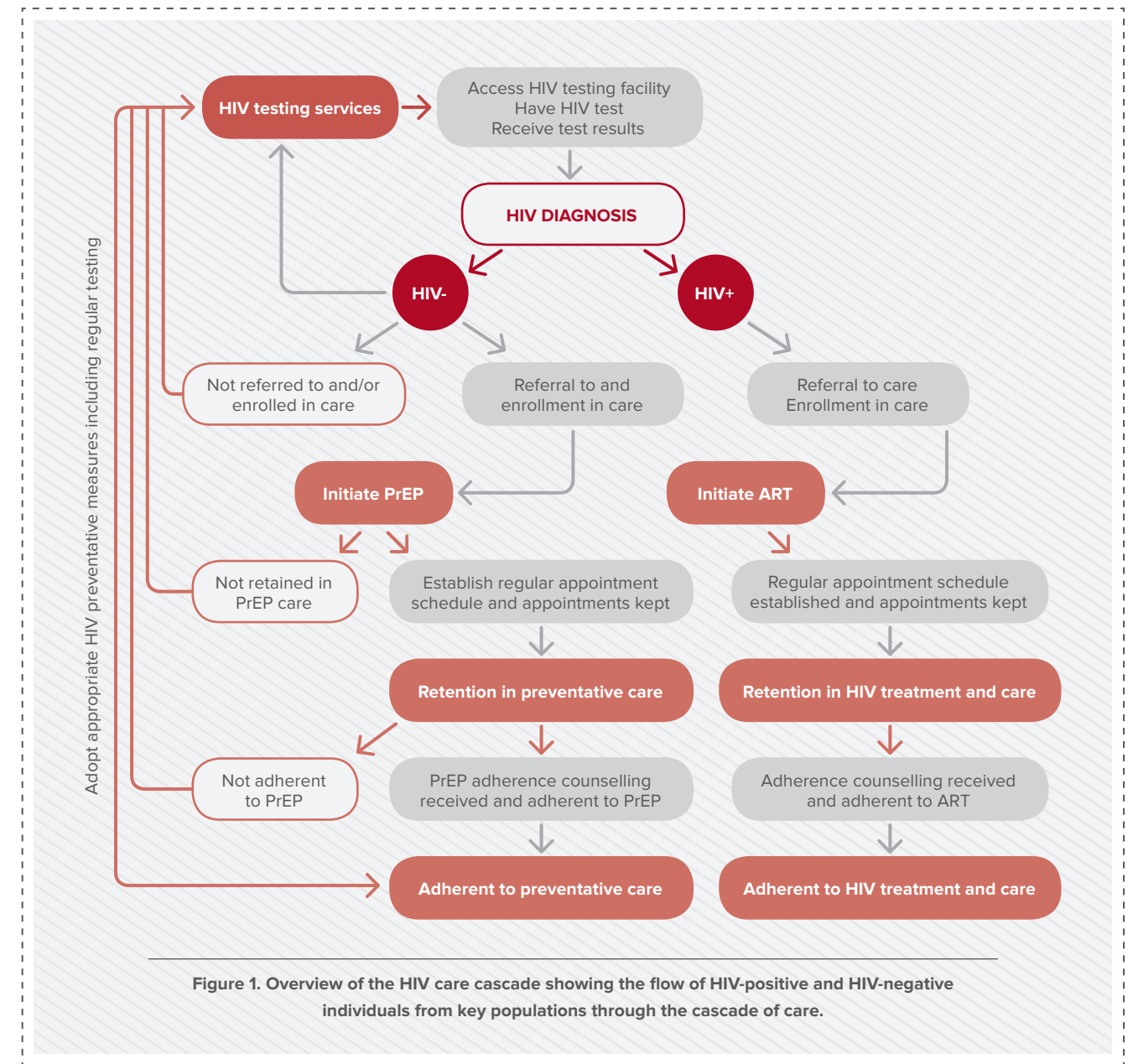


Figure 1. Overview of the HIV care cascade showing the flow of HIV-positive and HIV-negative individuals from key populations through the cascade of care.

Systematic reviews from CEBHC are informing WHO nutrition guidelines

The CEBHC led the update of a Cochrane systematic review on the effects of total fat intake on bodyweight in children. This review will inform the World Health Organization (WHO) dietary goals on total fat intake, which is part of the WHO *Nutrition Guidance Expert Advisory Group (NUGAG) on Diet and Health's* updating of dietary goals for the prevention of obesity and diet-related non-communicable diseases (NCDs), using evidence-informed methods. Dietary goals are quantitative targets for certain nutrients aimed at the population level, usually given as ranges of intake. Dietary goals represent the population average intake for maintaining health in a population, which in this context means a low prevalence of diet-related diseases in the population. Dietary goals inform the implementation of policy actions and targets to improve children's diets, aiming to help to prevent childhood overweight and obesity, and resultant NCDs, like diabetes. Updating of dietary goals is an important part of WHO's efforts to implement the NCD agenda, to which the Organization is giving high priority. This includes the implementation of the *NCD Action Plan for 2013 – 2020*, the implementation of the Second International Conference on Nutrition (ICN2) *Rome Declaration on Nutrition and the Framework for Action, as well as the UN Decade of Action on Nutrition (2016-2025)*, which recognizes the role of nutrition in achieving the 2030 Agenda on Sustainable Development and the Sustainable Development Goals. CEBHC researchers, Celeste Naude, Anel Schoonees, Marianne Visser and Kim Nguyen were members of the author team for this review, which was completed as part of the Cochrane fast-track pilot project in collaboration with the Cochrane Central Editorial Unit, Cochrane Nutrition and Cochrane Heart. WHO provided funding to Stellenbosch University towards the cost of carrying out the update of this systematic review in children.



STRATEGIC GOAL

To promote the use of best evidence in health care decision making and the uptake of current best evidence in health care policy and practice

Core to the work of the CEBHC is the promotion of the uptake of best evidence in decision making. A key strategy is engagement with relevant stakeholders. The Centre works in collaboration with a number of local and international institutions, and staff serve on various committees (Annex 2). The key principles are to encourage dialogue, enhance EBHC activities and avoid duplication.

The Centre works collaboratively with various divisions and departments within the FMHS at Stellenbosch University. Within the Western Cape Province we partner with various policymakers. We link with the Chronic Disease Initiative in Africa (CDIA) and key stakeholders from other academic and research institutions. At a national level the Centre collaborates with the Medical Research Council (MRC), specifically Cochrane South Africa, to support the conduct of Cochrane Reviews and promote EBHC in the African region. African Evidence Network led by the University of Johannesburg and regionally also links to the Collaboration for Evidence-based Health in Africa (CEBHA). Internationally, the Centre collaborates with the EHCRC (funded by DFID), ICAHE in Australia and the Norwegian Knowledge Centre for the Health Services (Norway) to increase evidence-informed decisions in order to improve health and health care for the poor in LMICs. The CEBHC also works with various Cochrane and Campbell groups and links actively with the WHO at national, regional and international levels.

Local and international stakeholders



Strengthening clinical practice guideline development and implementation

Clinical practice guidelines (CPGs) are intended to improve the efficiency and cost-effectiveness of health services and health system utilisation and to decrease costly, preventable mistakes. CPGs must therefore be based on current best evidence to ensure our limited resources are used wisely.



The South African Guidelines Excellence project (SAGE) is a collaborative research effort that worked across networks to consolidate methods and training for better CPG development, implementation and use. SAGE explored South African primary care CPG development, implementation and use; alongside a multipronged capacity development programme including a Master's level course, workshops, postgraduate student support and a valuable 'one-stop-shop' resource to support the CPG community – an online Guideline Toolkit (<https://guidelinetoolkit.org.za/>). Project SAGE was funded by a Flagship Grant from the South African Medical Research Council (SAMRC).

Michael McCaul, a researcher with the CEBHC, is currently conducting his PhD in Public Health around strengthening guideline development methods in prehospital care. Michael was involved with creating the national prehospital guidelines for the Health Professions Council of South Africa in 2017 and is building on this work to further strengthen guideline methods resource-strapped settings. His PhD is multi-phased and includes implementation research, taking stock of global prehospital CPG characteristics and quality, and strengthening adaptive guideline development methods.



Science-based evidence – Accurate and ethical communication

On 20-21 November the CEBHC co-hosted an International Summit on Quackery & Pseudoscience with the Centre for Science and Technology Mass Communication (CENSCOM) of the postgraduate Department of Journalism at Stellenbosch University. More than 100 high-profile health and science communication experts gathered at the International Summit on Quackery and Pseudoscience to explore how science communication efforts by the media, scientists, health regulators and governments can counter the impact of pseudoscience and advance the use of evidence-based healthcare practices.

The media play a crucial role in communicating health research and other messages to the public. They can influence people's perceptions about the safety and efficacy of health practices, and when the media relay pseudoscientific and unreliable messages, it can be harmful to people's health. The Summit brought researchers and journalists together to emphasise their joint responsibility for ethical and evidence-informed health reporting to better serve the interests of the public.

... we have a moral duty to distinguish sense from nonsense ... pseudoscience can literally kill people.

Massimo Pigliucci, *Nonsense on Stilts: How to Tell Science from Bunk.*

Session themes

- The rise and dangers of pseudoscience and science denialism: Communicating uncertainty in science
- Health regulation, science in court and other protection mechanisms: Are consumers misled and left in the cold?
- The media and pseudoscience: Reflecting science through a 'dirty mirror'?
- Sense about science: Why evidence matters
- Communicating accurate science: Scientists leaving the laboratory and engaging the public
- Is quackery harmless? Exploiting the desperately ill, the vulnerable and the ignorant
- Believing the unbelievable: When pseudoscience is camouflaged as evidence-based science

Implementation research project

Researchers from Stellenbosch University and decision-makers from National Department of Health (Emergency Medical Services) conducted an implementation research project aimed at strengthening prehospital CPG implementation in South Africa. This project, funded by the Strengthening Capacity for Implementation Research Initiative (SCAPIR), involved two distinct phases. Phase 1 investigated prehospital providers' perceptions of the new prehospital CPGs, including barriers and facilitators for guideline dissemination and implementation by conducting nine focus groups, involving 56 participants across four major provinces in South Africa. Phase 2 aims to raise awareness and inform stakeholders of Phase 1 results, identify feasible policy recommendations together with stakeholders and map an implementation framework to strengthen guideline dissemination and implementation.

Knowledge translation workshops

Knowledge Translation (KT) seeks to bridge the gap between research and decision-making (and the actors within each). As attention to KT in research, policy and practice grows, so does a need for capacity enhancement in KT knowledge, skills and activities amongst evidence producers and evidence users. The CEBHC spearheaded the development and accreditation of a foundational course titled *Evidence-Informed Decision making: Concept note for a foundational course on knowledge translation* that will be followed by a series of affiliated workshops in the future through Stellenbosch University. The curriculum is designed in a way to dovetail the science and art of KT by drawing on principles of adult learning and capacity strengthening that includes: 1) extraction of intuitive and tacit knowledge; 2) autonomous knowledge generation; 3) practical sessions; 4) peer-support and critique; 5) facilitator coaching and feedback; 6) constant reflection.

The 3-day in-person workshop was offered twice in 2017 (September and November) with attendance by 37 senior researchers and faculty from universities and research institutes around the country - each leaving the workshop with three completed outputs: a stakeholder matrix, an engagement strategy for their chosen stakeholder and a plan for evaluating the impact of their KT strategy in influencing decision-makers.

PARTICIPANT FEEDBACK

“It is almost disturbing to think that this kind of training is not a more standardised tool being used in research settings, because it would save some time in the end. I'm glad that I was able to attend and learn skills that would enable me to refocus my workload in a more constructive way.”

“Learning the different techniques for engaging with various types of stakeholders. A great, creative and exciting session - very different to my usual work.”





STRATEGIC GOAL

To enhance EBHC knowledge, skills and practices through training health care professionals and other stakeholders

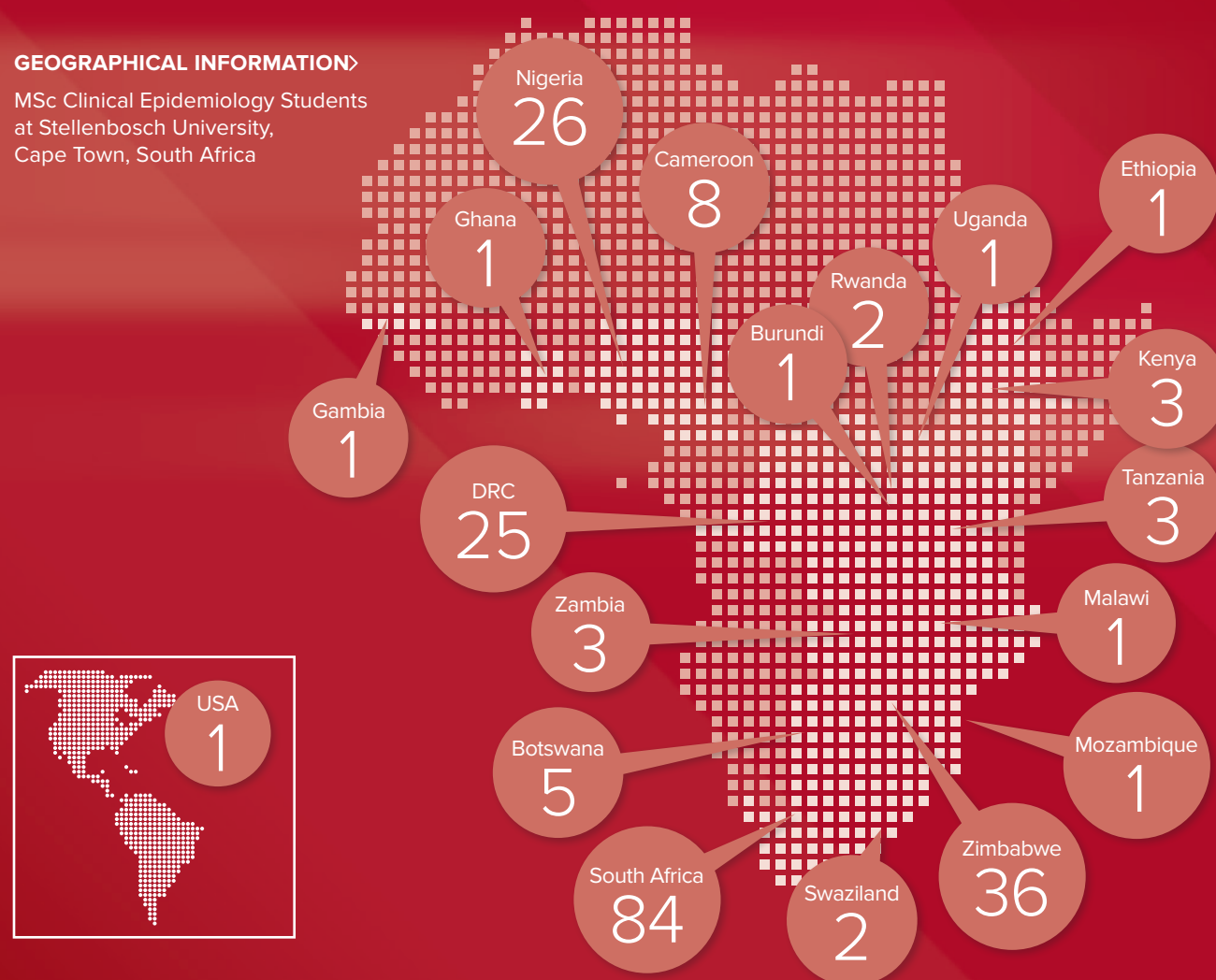
Promoting and enhancing the teaching and learning of EBHC is core to the work of the CEBHC. During 2017, various activities were offered at undergraduate, postgraduate and continuing professional development level (Annex 3).

Enhancing and expanding the programmatic offering of the MSc in Clinical Epidemiology

The MSc in Clinical Epidemiology (www.sun.ac.za/clinepi) offers rigorous methodological training for health professionals who wish to pursue careers in clinical research and/or evidence-based health care practice. The academic leadership for this programme is provided by the Director of the CEBHC and CEBHC staff play key roles in enhancing and expanding the programmatic offering - staff convene various modules, facilitate sessions, provide teaching assistance and support, and supervise students. It is a part-time programme that runs over two years and offers a blend of face-to-face contact sessions, e-learning and self-study. It has employed various innovations, including a mentorship component and a system of teaching assistantship that provides support to both the students and conveners of the programme. In 2017 we reached 123 graduates and close to half have published their research in peer-reviewed journals.

GEOGRAPHICAL INFORMATION>

MSc Clinical Epidemiology Students at Stellenbosch University, Cape Town, South Africa



Primer in systematic reviews

Well conducted, up to date systematic reviews provide best evidence to answer healthcare questions and research synthesis has become a research discipline in its own right, with methods, and a body of scientific research underpinning the methods.

Researchers, clinicians and public health policy-makers can use findings from up to date robust reviews to inform their thinking. For researchers, this is an assessment of the gaps in research, and a rigorous sum of all relevant research to inform their research designs. For clinicians, this identifies the most appropriate treatments. For public health policy specialists, this might be a reliable assessment of what is known about the benefits and harms of various public health policies. With the massive uptake in the methods of research synthesis, there is a need for researchers to know how to identify, read, appraise and interpret systematic reviews.

We offer this course as either a 4 day workshop or a 6 week online course. The courses are accredited with the Liverpool School of Tropical Medicine and Stellenbosch University.



The Stellenbosch University Collaborative Capacity Enhancement through Engagement with Districts (SUCCEED)

project, funded by the Centers for Disease Control and Prevention (CDC), under the USA President's Emergency Plan for AIDS Relief (PEPFAR) in April 2015, facilitated South African university-based technical assistance that aims to improve the quality of HIV/AIDS and related services in South Africa.

The project provided technical assistance and capacity development in decentralised learning, operational research, quality improvement and data. As the growth in existing evidence is not translating to change on the ground realities and the challenges remain in the implementation of strategies, we at the CEBHC focused on building capacity for operational research through workshops, mentorship and experiential learning.

Operational research helps to identify solutions to problems that limit programme quality, efficiency and effectiveness, or to determine which alternative service delivery strategy would yield the best outcomes. Findings from operational research are used to inform programmatic decisions.

Those involved with the conduct of operational research must be equipped to conduct research well, have the capacity to engage with programme officers to identify the problems to be solved and to disseminate findings with implementation strategies to stakeholders, thus working side by side throughout the research and implementation process.

For more information please visit <http://succeed.sun.ac.za/>.



Indaba lounge at the Global Evidence Summit (GES)

The GES <http://globalevidencesummit.org/> was the first time that Cochrane, The Campbell Collaboration, Guidelines International Network, International Society for Evidence-based Health Care, and Joanna Briggs Institute have joined forces to create this premiere event in evidence-based policy. The event aimed to advance the use of reliable research evidence in addressing some of the world's most serious health and social challenges. The conference was held at the Cape Town International Convention Centre, Cape Town, South Africa from 13-16 September 2017.

The GES highlighted and promoted evidence-based approaches to policy and practice in order to target resources to what works, therefore offering the most cost-effective health interventions. More than 1300 people from 75 countries attended the GES which included worldclass speakers and facilitators who engaged wide audiences.

Various young researchers and postgraduate students from all over the world attended the GES. The CEBHC organised a dedicated networking space in the exhibition area, creating a relaxed atmosphere for participants to meet. We managed to secure 11 senior researchers – each meeting with about 2-4 young/junior researchers. The sessions took place during the tea and lunch breaks of the Summit. Each session was 15-30 minutes and participants were very pleased with the interaction and mentoring, and most exchanged contact details before departing.



STRATEGIC GOAL

Promote the optimal functioning and sustainable growth of the CEBHC

The work of the CEBHC is guided by the Constitution of the Centre. The CEBHC plays a key role in providing project leadership nationally, regionally, and internationally.

Effective Health Care Research Consortium

In collaboration with national and international partners, the CEBHC, funded by the UK DFID, aims to increase evidence-informed decision-making to improve the health and health care for the poor in low- and middle-income countries via the Effective Health Care Research Consortium (EHCRC) (www.evidence4health.org). The CEBHC leads this work in the African region and provides project management to partners in Cameroon (Centre for the Development of Best Practices in Health), Nigeria (Calabar Institute of Tropical Diseases and Prevention), and South Africa (Cochrane South Africa).

SUCCEED

Within a new FMHS project the CEBHC contributes to the management committee and coordinates the implementation of capacity development and technical support for implementation research.

Strengthening Capacity for Implementation Research Initiative

The CEBHC is an Implementation Research Regional Training Center, as part of the Strengthening Capacity for Implementation Research (SCAPIR) initiative. Through this initiative we manage and support the conduct of nationally relevant implementation research.

Cochrane African Network

Within the Cochrane African Network the CEBHC plays a key role in coordinating the Southern-Eastern Hub. Taryn Young also supports the overall coordination of the Cochrane African Network through collaboration with Cochrane South Africa.

The work of the CEBHC is supported by an excellent team of full-time and part-time staff as well as external staff appointed as extra-ordinary staff (Annex 4). Staff serve in various capacities on committees (Annex 2). All staff have performance agreements and personal development plans in place.

We work collaboratively with various partners. For funded projects, we submit annual activity and financial reports.

The CEBHC does not receive any funding from commercial sources, defined as any for-profit manufacturer or provider of health care, or any other for-profit source with a real or potential vested interest in the findings of specific research.

ANNEX 1: Research Outputs 2017

Publications in Peer-Reviewed Journals

- Young T, Naude C, Brodovcky T, Esterhuizen T.** Building capacity in Clinical Epidemiology in Africa: experiences from Masters programmes. *BMC Medical Education* (2017) 17:46
- Wiysonge CS, Bradley HA, Volmink J, Mayosi BM, Opie LH.** Beta-blockers for hypertension. *Cochrane Database of Systematic Reviews* 2017, Issue 1. Art. No.: CD002003. DOI: 10.1002/14651858.CD002003.pub5
- Morgan EH, **Schoonees A**, Faure M, Seguin RA. Caregiver involvement in interventions for improving children's dietary intake and physical activity behaviors. *Cochrane Database of Systematic Reviews* 2017, Issue 2. Art. No.: CD012547. DOI: 10.1002/14651858.CD012547.
- Schoonees A, Rohwer A, Young T.** (2017) Evaluating evidence-based health care teaching and learning in the undergraduate human nutrition; occupational therapy; physiotherapy; and speech, language and hearing therapy programs at a sub-Saharan African academic institution. *PLoS ONE* 12 (2): e0172199. doi:10.1371/journal.pone.0172199
- Madhombiro M, Dube-Marimbe B, Dube M, Chibanda D, **Zunza M**, Rusakaniko S, Stewart D and Seedat S. A cluster randomised controlled trial protocol of an adapted intervention for alcohol use disorders in people living with HIV and AIDS: impact on alcohol use, general functional ability, quality of life and adherence to HAART. Madhombiro et al. *BMC Psychiatry* (2017) 17:44 DOI 10.1186/s12888-017-1208-3
- Naude CE, Durao S, Harper A and Volmink J.** Scope and quality of Cochrane reviews of nutrition interventions: a cross-sectional study. *Nutrition Journal* (2017) 16:22 DOI 10.1186/s12937-017-0244-7
- Moloi AH, **Mall S**, Engel ME, Stafford R, Wan Zhu Z, Zuhlke LJ, Watkins DA. Rheumatic Heart Disease Epidemiology and Health Systems Barriers and Facilitators A Systematic Review of Studies From Uganda and Tanzania. *Global Heart*. 2017. DOI: <http://dx.doi.org/10.1016/j.gheart.2016.12.002>
- Rohwer A, Motaze NV, Rehfuess E, Young T.** E-learning of evidence-based health care (EBHC) in healthcare professionals: a systematic review. *Campbell Systematic Reviews* 2017:4. DOI: 10.4073/csr.2017.4
- Adeniyi AB, Laurence CE, **Volmink JA**, and Davids MR. Prevalence of chronic kidney disease and association with cardiovascular risk factors among teachers in Cape Town, South Africa *Clin Kidney J* sfw138 first published online January 17, 2017 doi:10.1093/ckj/sfw138
- Aves T, Kredo T, Welch V, Mursleen S, Ross S, Zani B, **Motaze NV**, Quinlan L, Mbuagbaw L. Equity issues were not fully addressed in Cochrane human immunodeficiency virus systematic reviews. *J Clin Epidemiol* 2017 Jan;81:96-100. doi: 10.1016/j.jclinepi.2016.09.008
- Adedokun ST, Uthman OA, Adekanmbi VT, **Wiysonge CS.** Incomplete childhood immunization in Nigeria: a multilevel analysis of individual and contextual factors. *BMC Public Health* 2017 Mar 8;17(1):236. doi: 10.1186/s12889-017-4137-7
- De Buck E, Van Remoortel H, Hannes K, Govender T, **Naidoo S**, Avau B, Vande veegaete A, **Musekiwa A**, Vittoria L, Cargo M, Mosler H-J, Vandekerckhove P, **Young T.** Approaches to promote handwashing and sanitation behaviour change in low- and middle-income countries: a mixed method systematic review. *Campbell Systematic Reviews* 2017:7 DOI: 10.4073/csr.2017.7
- Machingaidze S, Zani B, Abrams A, Durao S, Kredo T, Louw Q, Grimmer K, **Young T.** Quality and Reporting Standards of South African Primary Care Clinical Practice Guidelines. *Journal of Clinical Epidemiology* 83 (2017) 31e36
- Davids MR, Caskey FJ, **Young T**, Balbir Singh GK. Strengthening Renal Registries and ESRD Research in Africa. *Seminars in Nephrology*, Vol 37, No 3, May 2017, pp 211–223
- Onwumeh J, **Okwundu CI**, Kredo T. Interleukin-2 as an adjunct to antiretroviral therapy for HIV-positive adults. *Cochrane Database of Systematic Reviews* 2017, Issue 5. Art. No.: CD009818. DOI: 10.1002/14651858.CD009818.pub2
- Mengouo MN, **Ndze VN**, Baonga F, Kobela M, **Wiysonge CS.** Epidemiology of rubella infection in Cameroon: a 7-year experience of measles and rubella case-based surveillance, 2008-2014. *BMJ Open* 2017 Apr 7;7(4):e012959. doi:10.1136/bmjopen-2016-012959
- Nduka CU, Stranges S, Kimani PK, Sarki AM, **Uthman OA:** Is there sufficient evidence for a causal association between antiretroviral therapy and diabetes in HIV-infected patients? A meta-analysis. *Diabetes/metabolism research and reviews* 2017.
- Zunza M**, Gray DM, **Young T**, Cotton M, Zar HJ. Isoniazid for preventing tuberculosis in HIV-infected children. *Cochrane Database of Systematic Reviews* 2017, Issue 8. Art. No.: CD006418. DOI: 10.1002/14651858.CD006418.pub3
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- Kredo T, Abrams A, **Young T**, Louw Q, **Volmink J**, Daniels K. Primary care clinical practice guidelines in South Africa: qualitative study exploring perspectives of national stakeholders. *BMC Health Services Research*. 2017;17:608 <https://doi.org/10.1186/s12913-017-2546-z>

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22. **Wiysonge CS**, **Ndze VN**, Kongnyuy EJ, Shey MS. Vitamin A supplements for reducing mother-to-child HIV transmission. Cochrane Database of Systematic Reviews 2017, Issue9. Art. No.: CD003648. DOI: 10.1002/14651858.CD003648.pub4.
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3. **Ochodo E**, Kredo T, **Young T**, **Wiysonge CS**. Protocol for a qualitative synthesis of barriers and facilitators in implementing guidelines for diagnosis of tuberculosis. BMJ Open 2017;7:e013717. doi: 10.1136/bmjopen-2016-013717
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7. Morgan EH, **Schoonees A**, Faure M, Seguin RA. Caregiver involvement in interventions for improving children’s dietary intake and physical activity behaviors. Cochrane Database of Systematic Reviews 2017, Issue 2. Art. No.: CD012547. DOI: 10.1002/14651858.CD012547.

Scientific Letters, Editorials, Columns

1. **Naude CE**, **Schoonees A**, Senekal M, Garner P, **Young T**, **Volmink J**. Reliable systematic review of low-carbohydrate diets shows similar weight-loss effects compared with balanced diets and no cardiovascular risk benefits: Response to methodological criticisms. South African Medical Journal 2017;107(3):170. DOI:10.7196/SAMJ.2017.v107i3.12382

International Presentations

1. **Rohwer A**, **Young T**, Wager E, Garner P. Integrity in reporting research: Perspectives from LMIC health researchers. 5th World Conference on Research Integrity 2017. 28-31 May 2017, Amsterdam, The Netherlands. (Poster presentation)
2. **Rohwer A**, **Young T**, Wager E, Garner P. Mapping the literature on health research reporting practices from LMICs. 5th World Conference on Research Integrity

2017. 28-31 May 2017, Amsterdam, The Netherlands. (Poster presentation)

3. **Zunza Z**, Cotton MF, Mbuagbaw L, Lester R, Thabane L. Mobile phone text messaging plus motivational interviewing in promotion of breastfeeding among HIV-infected women: Study protocol for a randomized parallel group SOC-controlled pilot trial. 26th Annual Canadian Conference on HIV/AIDS Research (CAHR), Montreal, Canada, 6-9 April 2017
4. **Rohwer A, Young T**, Wager E, Garner P. Research integrity in low- and middle income countries: Systematic review of prevalence of poor authorship practice, plagiarism and other misconduct. Global Evidence Summit, Cape Town, South Africa, 13-16 September 2017 (Poster presentation)
5. **Rohwer A**, Motaze NV, Rehfuess E, **Young T**. Assessment of reporting of evidence-based health care (EBHC) e-learning interventions in included studies of a Campbell systematic review. Global Evidence Summit, Cape Town, South Africa, 13-16 September 2017 (Short oral presentation)
6. **McCaul M**, de Waal B, Hodgkinson P, Pigoga J, **Young T**, Wallis L. Guidelines for prehospital emergency care: Why re-invent the wheel? Global Evidence Summit 2017. 13-16 September 2017, Cape Town, South Africa. (Poster presentation)
7. **McCaul M, Rohwer A**, Durao S, Kredo T, Garner P, **Young T**. Find, interpret and use: Introducing evidence synthesis online. Global Evidence Summit 2017. 13-16 September 2017, Cape Town, South Africa. (Oral presentation)
8. **McCaul M**, de Waal B, Hodgkinson P, Pigoga J, **Young T**, Wallis L. Developing clinical practice guidelines for low-to-middle income countries: methods, experiences and lesson learnt in adapting, adopting or contextualising existing CPGs. iCAHE Conference. 6-10 November 2017. Adelaide, Australia. (Oral presentation)

National Presentations

1. **Nicol L**. Epidemiology of TB in South African Health Care Workers: a systematic review. Evidence to Action: LTBI among Health Care Workers; and DR-TB Treatment Failure Cases Management. 14 -15 March 2017. Cape Town, SA. (Invited speaker)
2. Smit P, **McCaul M**, Wallis L. Ketamine for induction in traumatic brain injury: A rapid review. Emergency Medicine Cape Town Research Day. 29 March 2017. Cape Town, SA. (Oral presentation).
3. Matthews R, **McCaul M**, Smith W. A description of practices of analgesia administration by Advanced Life Support paramedics in the City of Cape Town. Emergency Medicine Cape Town Research Day. 29 March 2017. Cape Town, SA. (Oral presentation).
4. **McCaul M**, Draper B, Temmingh H, Ernstzen D. Shifting the way we do it: Clinical practice guideline adaptation. SAGE Panel Discussion Day. 20 April 2017. Cape Town, SA. (Oral presentation and Panel member)
5. **Rohwer A, Young T**, Wager E, Garner P. Integrity in reporting research: Perspectives from LMIC health researchers. Annual Academic Day, Faculty of Medicine and Health Sciences, Stellenbosch University, 30 August 2017 (poster presentation)

6. **Rohwer A, Young T**, Wager E, Garner P. Mapping the literature on health research reporting practices from LMICs. Annual Academic Day, Faculty of Medicine and Health Sciences, Stellenbosch University, 30 August 2017 (poster presentation)
7. **McCaul M, Rohwer A**, Durao S, Kredo T, Garner P, **Young T**. Find, interpret and use: Introducing evidence synthesis online. 6th EMSSA International Conference. 1-5 October 2017. Sun City, South Africa. (Oral presentation)
8. **McCaul M**, de Waal B, Hodgkinson P, Pigoga J, **Young T**, Wallis L. Developing clinical practice guidelines for low-to-middle income countries: methods, experiences and lesson learnt in adapting, adopting or contextualising existing CPGs. 6th EMSSA International Conference. 1-5 October 2017. Sun City, South Africa. (Oral presentation)
9. **McCaul M, Hendricks L**, Naidoo R. Prehospital providers perspectives for Clinical Practice Guideline implementation and dissemination: Strengthening guidelines uptake in South Africa. 6th EMSSA International Conference. 1-5 October 2017. Sun City, South Africa. (Oral presentation)
10. **McCaul M**, Bruijns S, Brysiewicz P. Knowledge translation in Emergency Medicine. 6th EMSSA International Conference. 1-5 October 2017. Sun City, South Africa. (Panel discussion)
11. Bruijns S, **McCaul M**, Saunders C. Research Workshop. 6th EMSSA International Conference. 2 October 2017. Sun City, South Africa. (Workshop)
12. Smit P, **McCaul M**, Wallis L. Ketamine for induction in traumatic brain injury: A rapid review. 6th EMSSA International Conference. 1-5 October 2017. Sun City, South Africa. (Oral presentation)

Postgraduate Student Supervision

1. Gladys Dandira, MSc Clinical Epidemiology, Stellenbosch University – ongoing. Topic: Trends in antimicrobial resistance of bacteria causing urinary tract infection between 2014 and 2016 in Harare, Zimbabwe. (Supervisor: **Tonya Esterhuizen, Riezzah Abrahams, Muchaneta Mugabe**)
2. Mfanufikile Nomvete, MSc Clinical Epidemiology, Stellenbosch University – ongoing. Topic: A comparative analysis between upper and lower gastrointestinal endoscopy in the evaluation of chronic diarrhoea in HIV infected individuals. (Supervisor: **Tonya Esterhuizen, Ernst Fredericks**)
3. Medard Beyanga, MSc Clinical Epidemiology, Stellenbosch University - graduated 2017. Topic: Prevalence of active pulmonary TB cases among confirmed TB positive household contacts in Mwanza Tanzania; A cross sectional study (Supervisor: **Eleanor Ochodo**)
4. Niel van Hoving, PhD, Stellenbosch University – ongoing. Topic: Abdominal ultrasound for diagnosing abdominal tuberculosis or disseminated tuberculosis with abdominal involvement in HIV-positive adults (Co-supervisor: **Eleanor Ochodo**)
5. Lisa Telford, MPH, University of Cape Town – ongoing. Topic: A Systematic Review of the Diagnostic Accuracy of Handheld Echocardiography Versus Standard

Echocardiography for the Detection of Rheumatic Heart Disease in Populations of School-aged Children and Adolescents Worldwide (Co-supervisor: **Eleanor Ochodo**)

6. Lynn Hendricks, MSc Clinical Epidemiology, Stellenbosch University – ongoing. Topic: Barriers and facilitators to linkage, adherence and retention among HIV positive patients: An overview of systematic reviews. (Supervisors: **Anke Rohwer, Taryn Young**)
7. Rhodine Hickman, MSc Clinical Epidemiology, Stellenbosch University – graduated 2017. Topic: A cross sectional study of the most prevalent clinical conditions, patient acuity factors and system distribution characteristics in a South African private emergency service database. (Supervisor: **Michael McCaul**)
8. Casper Tarumbuwa, MSc Clinical Epidemiology, Stellenbosch University – graduated 2017. Topic: Morbidity and mortality from malnutrition in HIV-exposed infants enrolled in the prevention of mother-to-child transmission of HIV programme (PMTCT) at a district hospital in Namibia: the role of infant feeding practices (Supervisor: **Celeste Naude**)
9. Sehlephi S. Kuhlase-Dlamini, MSc Clinical Epidemiology – ongoing. Topic: Tuberculosis (TB) drug resistance in HIV-infected adults who were on Isoniazid Preventive Therapy (IPT) regimen at Raleigh Fitkin Memorial Hospital in Manzini, Swaziland (Supervisor: **Ingrid Eshun-Wilson**)
10. Jeremy Stockhall, MSc Clinical Epidemiology – ongoing. Topic: South African Physiotherapists' Confidence in Evidence-Based Practice: a Cross-Sectional Study (Supervisor: **Taryn Young**)
11. Anke Rohwer, PhD, Stellenbosch University – graduated 2017. Topic: Research integrity in reporting research: Perceptions and experiences around plagiarism, conflict of interest and authorship criteria in low and middle income countries (Supervisor: **Taryn Young, Paul Garner**)
12. Michael McCaul, PhD, Stellenbosch University – ongoing. Topic: Strengthening pre-hospital clinical practice guideline development and implementation for South Africa (Supervisor: **Taryn Young, Mike Clarke**)
13. Heather Henry, PhD, Stellenbosch University – ongoing. Topic: Treatment for Paroxysmal Atrial Fibrillation. (Supervisor: **Taryn Young**)
14. Nina Evans, Masters in Nutrition – ongoing. Topic: Update of Cochrane review: Pine bark extract for the treatment of chronic disorders. (Supervisor: Janicke Visser, **Anel Schoonees**)
15. Sheena Ruzive, MSc Clinical Epidemiology – ongoing. Topic: Identifying Gaps in Primary Nutrition Research from Cochrane Nutrition Reviews using the EPICOT+ Framework (Supervisor: **Celeste Naude**)
16. Ndedi Phoba, MSc Clinical Epidemiology – ongoing. Topic: Geo-spatial analysis of private emergency care calls over the last decade in South Africa. (Supervisor: **Michael McCaul**)
17. Shingirayi Masuko, MSc Clinical Epidemiology – ongoing. Topic: Systematic survey on compliance of HIV trials protocols with SPIRIT guidelines (Supervisor: **Moleen Zunza**)
18. Neo Mohapeloa, MSc Clinical Epidemiology – ongoing. Topic: Prevalence of burnout and the predominant

stress management strategies: a cross sectional survey of community health workers within the Setsoto Local Municipality (Supervisor: **Moleen Zunza**)

19. Victoria Ndarukwa, MSc Clinical Epidemiology – graduated 2017. Topic: Combination antiretroviral treatment use in prevention of mother-to-child transmission programs: 6-week HIV prevalence and relationship to time of antiretroviral treatment initiation and mixed feeding (Supervisor: **Moleen Zunza**)
20. Kuhlula Maluleke, MSc Clinical Epidemiology – graduated 2017. Topic: Determinants of adherence to antiretroviral treatment among human immunodeficiency virus-infected young adults attending care at Letaba Hospital HIV clinic, Limpopo Province, South Africa (Co-supervisor: **Moleen Zunza**)
21. Anthony Ojo, MSc Clinical Epidemiology – graduated 2017. Topic: Effects of interventions to improve linkage to care for newly diagnosed HIV positive individuals: an overview of systematic reviews (Supervisor: **Liesl Nicol, Taryn Young**).
22. Idon Nkhenso Sibuyi, PhD Public Health/Health Informatics. CPUT – ongoing. Topic: An exploration of mobile health implementation in South Africa: a service design perspective. (Supervisor: **Peter Nyasulu**)
23. Ndumiso Tshuma, PhD Public Health, University of Nicaragua – graduated 2017. Topic: Factors influencing health outcomes among Adherence Club members in Ekurhuleni district, South Africa using structural equation modelling technique. (Supervisor: **Peter Nyasulu**)
24. Kuhlula Mabunda, MSc Clinical Epidemiology – ongoing. Topic: Determinants of adherence to antiretroviral treatment among human immunodeficiency virus-infected young adults attending care at Letaba Hospital HIV clinic, Limpopo Province, South Africa. (Supervisor: **Peter Nyasulu**)
25. Dr Longolongo Kibonge Raymond, MSc Epidemiology & Biostatistics, University of the Witwatersrand – ongoing. Topic: Factors Associated with HIV testing and retention in care among adolescents in Johannesburg, South Africa. (Supervisor: **Peter Nyasulu**)
26. Caroline Mwale, MSc Epidemiology & Biostatistics, University of the Witwatersrand - ongoing. Topic: Risk factors associated with the incidence of sexually transmitted infections among HIV positive people in Blantyre, Malawi. (Supervisor: **Peter Nyasulu**)
27. Yishak Abrham, MSc Clinical Epidemiology – ongoing. Topic: Predictors of antiretroviral treatment failure among HIV infected individuals on HAART. A systematic Review. Stellenbosch University. (Supervisor: **Peter Nyasulu**)
28. Selvan Naidoo: MClin Epi, Stellenbosch University – graduated 2017. Topic: A Study Within A Review: Comparing The Characteristics, And Assessing The Additional Impact Of Grey Literature Studies, On A Systematic Review And Meta-Analysis Of Approaches To Promote Handwashing And Sanitation Behaviour Change In Low And Middle-Income Countries (Co-Supervisor: **Peter Nyasulu**)

ANNEX 2:

Intellectual Input

Taryn Young

- Member, Cochrane Knowledge translation strategy working group, 2016 – date
- Member, Best Evidence Medical Education (BEME) Board, 2015 – date
- Advisory Group Member, Africa Centre for Evidence, University Johannesburg, 2017 – date
- Member, Faculty Postgraduate Teaching committee, 2016 – ongoing
- Member, Cochrane author forum, 2013 – ongoing
- Member, Curriculum committee, International Society on Evidence-based Health Care, 2013 – ongoing
- Chair of the Masters in Clinical Epidemiology programme, selection and bursary committees, 2008 – ongoing
- Member of EHCRC Executive Committee, 2011 – ongoing
- South African Epidemiology Association (SACEA) executive committee member, 2013 – ongoing
- Invited member of the Chronic Disease Initiative for Africa, April 2014 – ongoing

Peter Nyasulu

- Executive member of the Africa Centre for EHealth Excellence provides academic leadership, 2012 – date
- Member of the America College of Epidemiology, 2016 – date
- Member of the Royal Society of South Africa, 2010 – date
- Member of the International Epidemiology Association, 2014 – date
- Member of the Public Health Association of Southern Africa, 2010 – ongoing
- Peer reviewer. PloS One and Open Medicine, 2012 – ongoing
- Peer reviewer. Qualitative Health Research journal, 2014 – ongoing
- Peer reviewer. Global Health Action, 2014 – ongoing
- Peer reviewer. Open Journal of Immunology, 2015 – ongoing
- Peer reviewer. The Pan African Medical Journal, 2013 – ongoing
- Peer reviewer. Internal Journal of Tuberculosis and Lung Diseases, 2015 – ongoing
- Peer reviewer. Transactions of the Royal Society of Tropical Medicine and Hygiene, 2014 – ongoing
- Member of the Human Research Ethics Committee, FMHS, Stellenbosch University, 2018 – ongoing

Celeste Naude

- South African Epidemiology Association (SACEA) executive committee member, 2013 – ongoing
- Technical Reference Group on Healthy Eating. Western Cape Government Health, July 2014 – ongoing
- Invited member of the Chronic Disease Initiative for Africa, April 2014 – ongoing
- Member of the Cochrane Fields Executive Committee, 2015 – ongoing
- Co-director: Cochrane Nutrition, 2016 – ongoing
- Associate Editor, Cochrane Effective Practice and Organisation of Care Group, 2015 – ongoing
- Member of the Cochrane Council (Fields representative), 2016 – ongoing
- Cochrane African Network mentor, 2016 – ongoing
- Member, Cochrane Knowledge Translation Implementation Working Groups, 2017 – ongoing
- Member of the Ministerial Committee on Mortality and Morbidity in Children (CoMMiC), National Department of Health; Directorate: Child & Youth Health; 2015 – ongoing
- Member of Teaching, Research, Evaluation Consortium (TIREC) of the Western Cape Government's Western Cape on Wellness (WoW!) initiative, 2016 – ongoing
- Member of the Editorial Board of the South African Journal of Clinical Nutrition, 2016 – ongoing
- Member of a United Nations Food and Agricultural Organization's Working Group to develop resource documents to guide countries, especially low and middle income countries, on implementation of national food-based dietary guidelines, 2016 – ongoing
- Associate Editor: Nutrition Journal, Biomed Central, 2017 – ongoing
- Peer reviewer. Nutrition Journal, July 2017
- Member of Scientific Committee for the 18th International Congress of Dietetics (ICDA), 15-19 September 2020, Cape Town, 2016 – ongoing

Anke Rohwer

- Peer reviewer, BMC Systematic Reviews, July 2017
- Peer reviewer, Research Integrity and Peer Review, July 2017
- Editorial Assistant (Methods Advisor), Cochrane Public Health Group, October 2014 – ongoing

Eleanor Ochodo

- Extended member of STARD group (Standards for the reporting of Diagnostic Accuracy)
- Peer reviewer, British Medical Journal (BMJ), December 2017
- Peer reviewer, Cochrane Library Diagnostic group, November 2017

Moleen Zunza

- Executive member, South African Epidemiology Association (SACEA), 2013 – ongoing
- Member, International Epidemiology Association (IEA) 2014 – ongoing
- Human Research Ethics Committee member, Stellenbosch University, ongoing
- External examiner of Master in Public Health thesis, University of Cape Town, 18 May 2017
- Founding member and executive member of the Southern African Clinical Epidemiology Association, 2013 – present
- International of Epidemiology Association member, 2013 – present
- Reviewer, Journal of international AIDS society, 2016 – present
- Reviewer, Contemporary Clinical Trials communication, 2017 – present

Anel Schoonees

- Peer Reviewer, Health Information and Libraries Journal, February 2017
- Peer Reviewer, Medical Teacher, 16 August 2017

Tonya Esterhuizen

- Executive member, South African Clinical Epidemiology Association (SACEA), 2013 – ongoing
- Peer Reviewer, Cochrane Infectious Diseases Group 2012 – ongoing
- Peer Reviewer, Cochrane Diagnostic Test Accuracy Group 2013 – ongoing
- Member of the Masters in Clinical Epidemiology programme, selection and bursary committees 2012 – ongoing

Tawanda Chivese

- Member, International Epidemiology Association (IEA) 2014 – ongoing
- Member, Royal Statistical Society (RSS), 2017 – ongoing
- Executive Board Member, Public Health Association of South Africa (PHASA), 2017 – ongoing
- Vice Chairperson, Public Health Association of South Africa (PHASA Climate, Energy and Health Special Interest Group, 2017 – ongoing
- Reviewer, BMJ Open since 2016
- Reviewer, Plos One since 2015
- Reviewer, International Journal of HIV and STIs since 2016

Maxwell Chirehwa

- Graduate Statistician member, Royal Statistical Society-UK (RSS-UK), 2015 – ongoing
- Member of the Masters in Biostatistics programme, selection committee, 2016 – ongoing

Lynn Hendricks

- Executive Committee Member (Chairperson 2017), Division of Research and Methodology, Psychological Society of South Africa, 2014 – ongoing
- Member, American Psychological Society, 2012 – ongoing
- Member, International Society for the Study of Behavioural Development, 2010 – ongoing
- Peer Reviewer, Textbook: Social Sciences Research Methods, May 2017
- Peer Reviewer, South African Journal of Pre-Hospital Emergency Care, July 2017
- Peer Reviewer, African Journal of Emergency Medicine, August 2017 and November 2017

Ingrid Eshun-Wilson

- Editor, Cochrane Infectious Diseases Group, 2017 – ongoing

Michael McCaul

- Prehospital Section Editor and Reviewer, African Journal of Emergency Medicine, 2016 – ongoing
- Reviewer, International Journal of Nursing Practice, 2015 – ongoing
- Reviewer, Emergency Medicine Journal, 2016 – ongoing
- Member, UCT & SU Emergency Medicine Department Research Committee, 2015 – ongoing
- Member, Emergency Medicine Society of South Africa, 2015 – ongoing
- Vice-president, Emergency Care Society of South Africa, 2015 – ongoing
- External examiner, UCT Masters in Public Health, EBHC module, 2017
- External examiner, UCT MPhil Emergency Medicine, Clinical Research Methods module, 2017

Nasreeen Jessani

- Vice Chair, Evidence to Action Thematic Working Group, Health Systems Global, Nov 2016 – ongoing
- Scientific Advisory Panel, 10th Annual Conference on the Science of Dissemination and Implementation, NIH and Academy Health, July –Sept 2017
- Editorial Board, IDS/DFID-ESRC impact initiative, 2015 – 2017
- Temporary advisor, WHO knowledge management and research uptake, Dec 2017
- Advisory Board, Knowledge Translation and Dissemination Advisory Committee, Academy Health, Jun 2013 – present
- Academic journal peer reviewer, BioMed Central, 2013 – ongoing
- Academic journal peer reviewer, Health Policy and Planning, 2014 – ongoing
- Academic journal peer reviewer, Public Health, 2014 – ongoing
- Academic journal peer reviewer, Health Research Policy and Systems, 2016 – ongoing
- Academic journal peer reviewer, American Journal of Public Health, 2017
- Academic journal peer reviewer, BMJ Open, 2014 – ongoing
- Member, Emerging Voices for Global Health, 2014 – ongoing
- Member, Health Systems Global, 2014 – ongoing
- Member, Delta Omega Alpha – National Honour society, 2015 – ongoing
- Member, AcademyHealth, 2002 – ongoing
- Member, International Development Evaluation Association, AIMEnet - HIV/AIDS Monitoring & Evaluation Network since, 2003 – ongoing

Kim Nguyen

- Member of International Society of Cardiovascular Disease Prevention (ISCEP), since 2015
- Peer reviewer, NS Public Health Nutrition, 2013 – ongoing
- Peer reviewer, BMC Diabetology and Metabolic Syndrome, 2017 – ongoing

Mweete Nglazi

- Peer reviewer, BMJ Open, 2017 – ongoing
- Member, Public Health Association of South Africa, 2015 – ongoing

Carl Lombard

- Associate Editor of the International Journal of Tuberculosis and Lung Disease, 2009 – ongoing
- Associate Editor of the South African Statistical Journal, 2009 – ongoing
- Member of the Review Panel for the Post Graduate Student Project Competition of the South African Statistical association, 2010 – ongoing
- Review for NRF for NRF rating application for researchers, 2017
- External examiner for PhD thesis in Biostatistics for University of Kwazulu-Natal, 2017
- External examiner for graduate and post graduate Biostatistics Course at the University of Kwazulu Natal, 2017
- External examiner for Post Graduate course in Multivariate Analysis for the University of the Western Cape, 2017
- Reviews done for BMJ Open, 2017
- Review done for Public Health Nutrition, 2017
- Appointed as Extraordinary Professor in the Centre of Excellence for Nutrition, North-West University (Potchefstroom Campus), 2017
- Reviewer for the German Federal Ministry of Education and Health for grant proposals submitted for the “Health lifelong – Child and Adolescent Health” initiative

Jeannine Uwimana Nicol

- Reviewer, BMC – Health Services Research, 2012 – ongoing
- Reviewer, Journal of international AIDS society, 2011 – ongoing
- Member of the HIV/TB Working Group, The Union against TB and lung diseases, 2012 – ongoing
- Member of the STOP TB Partnership Network on Tuberculosis, 2011 – ongoing
- Member of the Health Systems Research Global (HSG), 2012 – ongoing
- Emerging voice for Global Health, Mentor, 2013 – ongoing
- Member of the Public Health Association of South Africa (PHASA), 2009 – ongoing
- Member of the Rwandan Palliative Care Association, 2004 – ongoing
- Member of the Rwandan Association of Physiotherapists, 2000 – ongoing
- Board member of the Pan-African Christian AIDS Network (PACANET), in charge of French speaking African countries, 2003 – 2010
- Executive board member, Pan-African Christian Network, 2015 – ongoing

ANNEX 3:
Teaching Sessions /
Lectures / Workshops

Undergraduate

MB,CHB (SU)

Year	Sessions
1	<ul style="list-style-type: none">• What we know that isn't so: why reliable evidence is needed to make good healthcare decisions• Introduction to evidence-based health care (EBHC)• EBHC step 1 – Phrasing questions• Populations and sampling• Studies about risk factors: Cohort studies• Studies about risk factors: Case-control studies• Studies about the accuracy of diagnostic tests• Studies about meanings and behaviour: qualitative studies• EBHC step 2: Searching the literature tutorial• Overview of different types of studies• Bias, error and confounding• Studies about effects of interventions: RCT• Studies that summarise other studies: Systematic reviews• Studies about Meanings and behaviour: Qualitative studies• Descriptive statistics• Hypothesis testing• Measures of occurrence• Diagnostic accuracy• Measures of association and effect• Confidence intervals
2	<ul style="list-style-type: none">• Diagnostic test accuracy, Introduction to Clinical Epi.
5	<ul style="list-style-type: none">• Principles and application of EBHC• Phrasing questions• Finding the Evidence• Critical appraisal of randomised controlled trials

EXTENDED DEGREE PROGRAMME II STUDENTS (HEALTH IN CONTEXT)

Sessions

- Introduction to Evidence based health care
- Practicing phrasing clear questions
- Populations and sampling
- Overview of observational study designs
- Randomised controlled trials
- Reading a systematic review
- Searching for evidence and review

BSC DIETETICS (3RD YEAR)

Session	Topic
1	Introduction to biostatistics and variation
2	Introduction to MS Excel – capturing data and management of data
3	Types of variables and measurement scales
4	Summarising numerical data – measures of central tendency and dispersion, graphical display of numerical data
5	Summarising categorical data, including graphical presentation
6	MS Excel – calculating summary statistics
7	The Normal Distribution
8	MS Excel – graphical data presentation
9	Measures of association
10	Confidence Intervals
11	MS Excel – frequency tables, pivot tables
12	Hypothesis testing and p-values
13	MS Excel – calculating measures of association and confidence intervals
14	The t—distribution
15	The z-test and the t-test for a single mean
16	The t-test for 2 independent groups
17	The t-test for paired data
20	Non-parametric methods
21	MS Excel – t-tests and non-parametric tests
22	Dealing with bias and confounding in medical research
23	ANOVA (postponed)
25	ANOVA, correlation and simple linear regression
27	ANOVA, correlation and regression in Excel
28	Chi squared test
29	Logistic regression
30	Sample size and power

Postgraduate

MSC IN CLINICAL EPIDEMIOLOGY (SU)

MSc in Clinical Epidemiology: Co-conveners of modules

- Fundamentals of Epidemiology
- Systematic Reviews and Meta-Analysis
- Writing and Reviewing Scientific papers
- Diagnosis and Screening
- Biostatistics I
- Biostatistics II
- Research Proposal Writing and Grantmanship
- Teaching EBHC
- Clinical Practice Guidelines
- Randomised Controlled Trials

MSc in Clinical Epidemiology: Teaching sessions offered

Module	Session
Biostatistics I	<ul style="list-style-type: none">• Introduction and describing data• Introduction to Stats and describing data• Estimation I• Estimation II• T-tests• Nonparametric tests• Categorical data
Fundamentals of Epidemiology	<ul style="list-style-type: none">• Development of clinical epidemiology and framing questions• Measures of Disease Frequency• Study designs: Observational studies• Linking exposure and disease – measures of effect/association• Early detection: Screening
Research proposal writing and grantmanship	<ul style="list-style-type: none">• Formulating the research question: Hypotheses and specific aims• Study design and review and practical exercises• Biostatistical applications: Sample size and sampling techniques• Sampling techniques• Questionnaire design• Data Analysis Plan• Data management• Presentation skills• Writing a literature review and searching for evidence
Writing and reviewing scientific papers	<ul style="list-style-type: none">• Recap on approach to EBHC• Critical appraisal of a case-control study• Critical appraisal of a systematic review• Critical appraisal of a cross sectional study• Critical appraisal of a diagnostic test accuracy study
Systematic reviews	<ul style="list-style-type: none">• Introduction to research synthesis• Zooming in on systematic reviews: what are they and where can we find them?• Review on data types, measures of disease occurrence and association• Presenting results and SOF tables• Analysing data and undertaking meta-analysis• Planning and preparing for a systematic review
Biostatistics II	<ul style="list-style-type: none">• Analysis of variance (ANOVA)• Correlation and simple regression• Multiple linear regression• Logistic regression• Survival analysis
Randomised controlled trials	<ul style="list-style-type: none">• Minimization in RCTs• Sample size calculation for trials (STATA Tutorial)• Analysis of RCTs
Diagnosis and Screening	<ul style="list-style-type: none">• Study Design• Design of diagnostic studies• Introduction to diagnostic test accuracy reviews• Appraising DTA studies
Teaching EBHC	<ul style="list-style-type: none">• Facilitating learning of evidence-based health care• Assessment of individual presentations• Using Technology to facilitate the teaching of EBHC
Clinical Practice Guidelines	<ul style="list-style-type: none">• Searching for clinical practice guidelines• Appraising clinical practical guidelines• Recap of blended learning concepts

MSC IN BIOSTATISTICS (SU)

MSc in Biostatistics: Co-conveners of modules

- Fundamentals of Epidemiology
- Data Management and Statistical Computing
- Observational Data Analysis

MSc in Biostatistics: Teaching sessions offered

Module	Session
Data Management and Statistical Computing	<ul style="list-style-type: none">• Introduction to data management, data management process, designing data collection forms, data entry, validation and verification, common used software for data management• Database design-key concepts• Data Normalization• Data Queries• Creating forms and reports• Data management in R• Data management in Stata
Fundamentals of Epidemiology	<ul style="list-style-type: none">• Introduction to Fundamentals of epidemiology, data sources
Observational Data Analysis	<ul style="list-style-type: none">• Causal Inference• Estimation: Matching and Covariate Adjustment• Estimation: IPTW• Estimation: MMWS

NURSING (HONOURS PROGRAMME)

- Overview of evidence-based practice
- Overview of types of research
- Phrasing questions
- Finding the evidence
- Practical Session: Searching for evidence
- Approach to critical appraisal of the literature and interpreting results
- Reading a systematic review
- Components of a scoping review
- Practical session on scoping reviews
- Searching for systematic reviews
- Appraisal of RCTs and systematic reviews
- Hands-on individualised searching for systematic reviews for PubMed and Cochrane Library

POSTGRADUATE CERTIFICATE IN HEALTH TECHNOLOGY ASSESSMENT (ONLINE COURSE)

- Online facilitation of the EBHC component of the course

PRE-DOCTORAL SHORT COURSE PROGRAMME

- Statistical design of quantitative research. Sample size and power
- Data Capture and selection of statistical tests

POSTGRADUATE NUTRITION AND DIETETICS STUDENTS AT THE UNIVERSITY OF CAPE TOWN

- Systematic reviews: the what, the why and the how

FAMILY MEDICINE MASTERS

- Introduction to statistical concepts
- Introductory data management

MASTERS IN OCCUPATIONAL THERAPY

- Statistical Analysis in OT Research

Continuing Professional Development: Presentations, Seminars & Workshops

Lectures and presentations

- Design and critical appraisal of case-control studies. Short course in Clinical research skills.
- Short course in clinical research skills. Data Collection.
- Short course in clinical research skills. Sampling.
- Data management: Principles and practise: Project Management Workshop.
- Data Analysis lecture for Department of Medicine Clinical research Methods Seminar Series.
- Cohort studies. Short course in clinical research skills.
- RCTs. Short course in clinical research skills.
- SAGE Guideline methods Panel discussion.
- Introduction to Network Meta-Analysis.
- Writing a literature review – Research Protocol writing workshop.

Workshops

- SUCCEED Operational Research – Methodology: quantitative study design, sampling and analysis. SUCCEED delegates. Mthatha, Eastern Cape. Date: 23 August 2017.
- SUCCEED Webinar: Questionnaire design. 9 November 2017.
- Research Protocol Writing Workshop. Biostatistical applications: Sample size and power calculations, sampling techniques. 20 September 2017.
- Research Protocol Writing Workshop. Data management and analysis plan. 20 September 2017.
- Research Protocol Writing Workshop. Questionnaire design. 20 September 2017.
- SUCCEED Operational Research – Qualitative data analysis. Registrars, health care staff, researchers and academic delegates. East London, Eastern Cape, 9-13 October 2017.
- SUCCEED Operational Research – Priority Questions for HIV and TB. Department of Health and Walter Sisulu University and other research delegates. East London, Eastern Cape, 12 July 2017.
- WHO Implementation Research – Qualitative Research Designs and Data Analysis. Delegates included academics, researchers and government staff and directors. Cape Town, 6-10 February 2017.

Webinars

- SUCCEED Operational Research – Conducting and preparing a literature review. Registrars, health care staff, researchers and academic delegates. Webinar Online, 28 July 2017.
- SUCCEED Operational Research – Qualitative study designs. Registrars, health care staff, researchers and academic delegates. Webinar Online, 28 September 2017.
- SUCCEED Operational Research – Ethics in operational research. Registrars, health care staff, researchers and academic delegates. Webinar Online, 7 December 2017.

Biostats: Data Management and exploratory data analysis using STATA	
Date	Topic
25 April 2017	Data Management
25 April 2017	Data Capture and coding
25 April 2017	Introduction to Stata
26 April 2017	Manipulating data in Stata (1)
26 April 2017	Manipulating data in Stata (2)
26 April 2017	Exploratory data analysis (1)
26 April 2017	Exploratory data analysis (2)

ANNEX 4: Staff



Prof Taryn Young

Taryn, MBChB, FCPHM, MMED, PHD. Director of the Centre for Evidence-based Health Care and consultant to the Cochrane South Africa, is an epidemiologist with a specialist degree in public health and considerable expertise in the field of evidence-based health care. She coordinates international collaborative projects which facilitate the use of best evidence in healthcare policy and practice, and has conducted many systematic reviews and provided intensive training, mentorship and editorial support to authors of Cochrane and other systematic reviews. Integral to her work is the co-ordination and evaluation of training programmes for under- and postgraduate students in public health and epidemiology, evidence-based healthcare and research synthesis nationally and in the African region.



Dr Celeste Naude

Celeste is a registered dietician and senior researcher. She holds a master's degree in Nutrition (2007) and a PhD (Nutritional Sciences) (2012) from Stellenbosch University. Her roles include research, knowledge translation, project management and teaching and her primary interests are public health nutrition and evidence-informed decision-making. Celeste is a member of the technical author team for systematic reviews and evidence summaries, an investigator for primary research projects and is involved in African and international research networks via the ECHRC and Cochrane. She is currently involved in a number of activities promoting evidence-informed decision-making with provincial and national stakeholders. She serves on a number of international and national scientific and technical committees, is a peer-reviewer for national and international journals, and a supervisor and examiner for postgraduate students.



Dr Eleanor Ochodo

Eleanor is a senior researcher and Wellcome Trust research fellow at the CEBHC. She qualified as a medical doctor from the University of Nairobi, Kenya (MBChB). She also holds a postgraduate certificate in Infectious Diseases from the University of Edinburgh (UK), an MSc in International Health from the Free University of Amsterdam (Vrije Universiteit) and a PhD in Clinical Epidemiology from the University of Amsterdam, The Netherlands. Her research revolves around evidence-based medicine with a focus on diagnostic tests and markers, specifically their accuracy, impact and how their results can be translated to policy and practice.



Ms Anel Schoonees

Anel is a researcher with undergraduate training in Food Science (2006). She also holds a master's degree in Nutrition (2011), master's degree in Clinical Epidemiology (2012), and a honours degree in Nutrition and Dietetics. Anel's roles at the CEBHC include research, teaching and knowledge translation. She is the author and co-author of a number of systematic reviews and other research, and has disseminated research findings at international and national conferences. She is also involved in peer-reviewing systematic reviews and examining postgraduate students. She teaches systematic reviews and EBHC to health care professionals, undergraduate and postgraduate students, and provides guidance to new systematic review authors. On the knowledge translation front she writes summaries of systematic reviews, edits Wikipedia to refer to systematic reviews and interacts with stakeholders.



Mr Tawanda Chivese

Tawanda is a researcher who graduated with a Masters in Clinical Epidemiology Degree from the Stellenbosch University in 2014. He also holds an honours Bachelor of Science Degree from the University of Zimbabwe. He joined the Centre for Evidence Based Health Care in November 2015 and helps with biostatistical consulting, research, and teaching. He is currently studying towards his PhD in Medicine (focussing on the prevention of type 2 diabetes after gestational diabetes) with the University Of Cape Town. He is interested in health systems strengthening, non-communicable disease epidemiology and prevention. He recently published his paper on Crohn's Disease phenotype and cigarette smoking. He has also co-authored a number of papers in peer reviewed international journals and presented research finding at International conferences.



Dr Charles Okwundu

Charles was trained a medical doctor at the University of Lagos, Nigeria, and completed a master's in Public Health at the University of Cape Town. He is currently working as a researcher. Charles has been involved with the Cochrane Collaboration since 2006 as a review author and has been involved in a number of Cochrane systematic reviews. His particular interests are in evidence-based health care and paediatrics. He is currently involved in a number of activities aimed at promoting the practice of EBHC within the African region and also increasing the involvement of Cochrane authors from the African region.



Dr Liesl Anne Nicol

Liesl is currently a part-time senior researcher. Her responsibilities at the Centre for Evidence-based Health Care include project management, research and knowledge translation. She obtained her PhD in Exercise Physiology at the University of Cape Town in 2003. She has experience in conducting and support of Cochrane Reviews, and facilitating the learning of evidence-based health care.



Dr Anke Rohwer

Anke is a researcher at the CEBHC. She has a background in midwifery (BCur), has completed her Masters in Clinical Epidemiology in 2010 and is a registered PhD student at Stellenbosch University. As part of her PhD studies, she is leading a project on research integrity in low- and middle-income countries. Her other research activities include systematic reviews and research related to teaching evidence-based health care (EBHC). In addition to doing research, Anke is involved with teaching activities that include teaching EBHC principles to healthcare professionals at undergraduate, postgraduate and continuing medical education level, supervising Master's students and mentoring novice authors of systematic reviews. She currently acts as a methods advisor for the Cochrane Public Health Group, peer-reviews articles for international journals and has presented her work at national and international conferences.



Dr Mweete Nglazi

Mweete joined the Centre of Evidence Based Health Care in December 2016 as a Researcher. She is involved in the SUCCEED and SCAPIR projects. Her current research interests are in HIV and TB, as well as non-communicable diseases. She obtained a BSc in Microbiology at the University of Zambia and MPH from the University of Cape Town. Her skills and expertise include operational research and quantitative research methodologies. Previously, she was a Senior Scientist at the MRC Burden of Disease Research Unit. Prior to this, she was a Senior Operational Research Fellow at the International Union against Tuberculosis and Lung Disease, and a Research Data Manager at the Desmond Tutu HIV Foundation, where she produced various first-authored publications.



Prof Rhoderick Machezano

Rhoderick holds a PhD in Biostatistics and a MPH in Epidemiology and Biostatistics. His duties include managing the Unit, teaching, research collaboration, and mentoring of postgraduate students. He has worked in public health for over 20 years, focusing on designing and evaluating HIV/AIDS/STIs interventions in both developed and developing countries. Over the course of his professional career, he has acquired valuable skills in translating research into policy, exercising his ability to transform data into knowledge. He has published modestly in reputable scientific journals.



Mr Michael McCaul

Michael is a registered emergency care practitioner and is passionate about pre-hospital emergency care and research, having worked as an operational paramedic locally (Cape Town and Durban) and internationally. He is currently the vice-president of the Emergency Care Society of South Africa (ECSSA) and is actively involved in conducting emergency care research in South Africa. Michael holds a BHSc in Emergency Medical Care (DUT) and an MSc in Clinical Epidemiology at Stellenbosch University. He is currently undertaking his PhD in epidemiology focusing on guideline development methods in emergency care. He is currently working as a researcher at the Biostatistics unit, much of his work involves undergraduate and postgraduate teaching, biostatistics consultation, knowledge translation including guideline development and research.



Ms Lynn Hendricks

Lynn is a registered Research Psychologist who holds a BSc from Freed-Hardeman University, United States and a dual MA Research Psychology degree from the University of the Western Cape and Oslo University. She has experience in undergraduate and postgraduate research lecturing and supervision, policy writing, monitoring and evaluation, mixed methods primary research and data analysis. She has authored and co-authored papers in peer-reviewed journals, disseminated research findings at international and national congresses as well as symposiums, and workshops. Other activities include executive committee membership for the Division of Research and Methodology, Psychological Society of South Africa. Her responsibilities at the Centre for Evidence-based Health Care include project management and training facilitation to build operational research capacity.

ANNEX 4: Staff...continued



Mr Maxwell Chirehwa

Maxwell has an honours degree in applied mathematics and an MSc in statistics (specialising in biostatistics) from Hasselt University, Belgium. He is registered with the Royal Statistical Society (RSS), UK as a graduate statistician. He currently provides statistical consulting services to students and staff in the faculty of medicine and health sciences. His main interest is on the application of nonlinear-mixed effects models to optimize treatment success and describe variability in drug exposure.



Ms Tonya Esterhuizen

Tonya has an honours degree in biochemistry and immunology and an MSc in Epidemiology from the London School of Hygiene and Tropical Medicine. She provides biostatistical consulting, participates in collaborative research, and teaches on both under- and postgraduate level. She works with local and international Cochrane Review authors and groups, assisting in the preparation of statistical methods in review protocols and meta-analysis of data. She is a statistical reviewer for the Cochrane Infectious Diseases group. Tonya has many collaborative publications in applied biostatistics and epidemiology, in various health disciplines.



Dr Moleen Zunza

Moleen qualified as a nurse in 2004 at the University of Zimbabwe and received a master's degree in Clinical Epidemiology (2011), honours in Applied Statistics (2016) and PhD (2016), at Stellenbosch University. Her main interests are in Maternal and Child Health and HIV/AIDS research and Biostatistics. Her work involves conducting primary and secondary research, teaching, statistical consultations and supervision of postgraduate students.



Ms Liesel Esterhuizen

Liesel is the project manager for the Biostatistics Unit. She is responsible for the day-to-day running of the Biostatistics Unit and also for all the logistics regarding the Biostatistics Unit and their activities.



Mrs Esther Rodrigues

Esther is an Administrative Officer for CEBHC and is responsible for the daily admin duties in the department as well as the logistics of workshops and travel of the team.



Dr Ingrid Eshun-Wilson

Ingrid is a clinician and epidemiologist. She has several years of clinical experience working with people living with HIV in low and middle income countries in both public health and clinical research settings. She completed a Masters in Epidemiology in 2009 and primarily works as an editor with Cochrane Infectious Diseases Group. She collaborates with local and international authors with the focus of producing relevant evidence synthesis in the HIV field. She is also involved in teaching on the Masters of Clinical Epidemiology program at Stellenbosch University.



Dr Anelisa Jaca

Anelisa completed a Doctoral degree in Anatomical Pathology at the University of Cape Town in August 2016. Her field of study encompassed investigating the role of biological pathways in the development and progression of colorectal cancer. She is currently registered as a Post-Doctoral Fellow at the Centre for Evidence-Based Health Care at Stellenbosch University. Upon receiving the opportunity to further her career in this field, she undertook a short course in Fundamentals of Epidemiology. Having developed a strong interest in this area of expertise, she now aspires to pursue MSc Clinical Epidemiology. Her interest and passion lie in applying Evidenced-Based Medicine (EBM) and writing Systematic Reviews of interventions for health threatening diseases.



Mrs Traci Naidoo

Traci is the project manager at the Centre for Evidence-based Health Care. She is responsible for coordinating the day-to-day running of the Centre as well as organising various workshops and seminars. She also does the marketing of the Centre, including updating the Facebook page, Twitter feed and website.

Extraordinary staff appointments

The work of the CEBHC is also supported by the following extraordinary staff:

- Prof Mike Clarke, Northern Ireland Network for Trials Methodology Research, Queen's University Belfast, Belfast, Northern Ireland
- Prof Paul Garner, Liverpool School of Tropical Medicine, United Kingdom
- Mr Alfred Musekiwa, South Africa
- Prof Marek Smieja, McMaster University, Canada
- Prof Lehana Thabane, McMaster University, Canada
- Prof Pat Yudkin, Oxford University, United Kingdom
- Prof Pat Yudkin, Oxford University, United Kingdom
- Prof Charles Shey Wiysonge



The achievements of the CEBHC are made possible by the excellent team.



Prepared by: T Young, T Naidoo

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