



Faculty of Medicine & Health Sciences
Stellenbosch University
South Africa

Annual report

2014





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 the centre of excellence in advancing evidence-informed health care in Africa and globally

Mission

- 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

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FOREWORD BY THE CHAIRPERSON OF THE CEBHC GOVERNING BOARD: PROF USUF CHIKTE



It is a great pleasure to provide the foreword to the CEBHC Annual Report. This year, the CEBHC exceeded expectations in terms of its outputs as measured against the strategic plan as the benchmark. Under the able and inspiring leadership of Taryn Young, team CEBHC is closer in the process of becoming a distinguished centre excellence for evidence-informed health care in Africa and the world. Some of the tangible impacts of the research output in 2014 include Dr Celeste Naude's systematic review on low carbohydrates diets for weight loss, which obtained an Altmetric score in the 99th percentile and more than 75 print and digital media contributions. The media engagement linked to the review had an advertising value equivalence of more than R8 million for the 16 week period following its publication.

The formation of the Biostatistics Unit within the CEBHC augurs well for strengthening research methods at the Faculty of Medicine and Health Sciences (FMHS). The use of consultation service by faculty staff and students increased considerably over the year. A highlight of the year was the workshop of biostatisticians from across sub-Saharan Africa to develop a proposal for an Africa Centre for Biostatistical Excellence designed to provide organisational capacity and infrastructure for the enhancement of biostatistics capacity in sub-Saharan Africa. In this era of evidence-based health care, biostatistics is an indispensable competency to review, appraise, synthesise, and interpret evidence from research studies to guide policy formulation and practice decisions.

The achievements of the CEBHC in research, translation of research evidence to policy and practice, and teaching are the fruits of diligent work by an extraordinary team. I would like to take the opportunity to applaud the efforts of a dynamic team at the CEBHC under the capable leadership of Professor Taryn Young. This annual report showcases the rich academic harvest the CEBHC has yielded through its dedication and commitment.

We are grateful for the support of the FMHS, funders, local and international collaborators and partners, among others, in the execution of our tasks. The sound judgement through investment in the CEBHC has yielded dividends far beyond our expectations.

Professor Usuf Chikte

Chair Governing Board, Centre for Evidence-based Health Care.

MESSAGE FROM THE DIRECTOR AND DEPUTY-DIRECTOR OF THE CEBHC: PROFS TARYN YOUNG AND CHARLES WIYSONGE

It gives us a great pleasure to be part of this amazing team, the CEBHC. Since its inception, each year has been an incredible journey for CEBHC as we live our vision of a centre of excellence in evidence-informed health care in Africa and the world - 2014 was no different. In CEBHC's research, knowledge translation, and training activities we share the ideals of excellence, integrity, credibility, relevance and collaboration. These values determine our priorities and govern the way we work. The team's peer-reviewed publications did not only rise to 34 in 2014, these were published in high impact journals; including, but not limited to, the Cochrane Database of systematic Reviews (Impact Factor 5.94), the International Journal of Epidemiology (Impact Factor 9.20), and the New England Journal of Medicine (Impact Factor 54.42).

Our Biostatistics Unit made great strides in efforts to improve biostatistics literacy and to expand and build biostatistics capacity in Africa, and CEBHC continued to build EBHC capacity at under-and postgraduate level. In our knowledge translation portfolio we implemented its innovative project, Policy BUDDIES, to promote the use of systematic reviews by sub national policy makers. Policy BUDDIES is one of only two projects (out of 52 proposals reviewed) funded by the Alliance for Health Policy and Systems Research, a partnership housed within the World Health Organization (WHO).

We wish to express our gratitude for the support we received from the Department of Interdisciplinary Health Sciences, the management of the FMHS, the CEBHC Governing Board, and our funders and collaborators. Our special thanks go to our team who work tirelessly towards the realisation of the CEBHC goals.



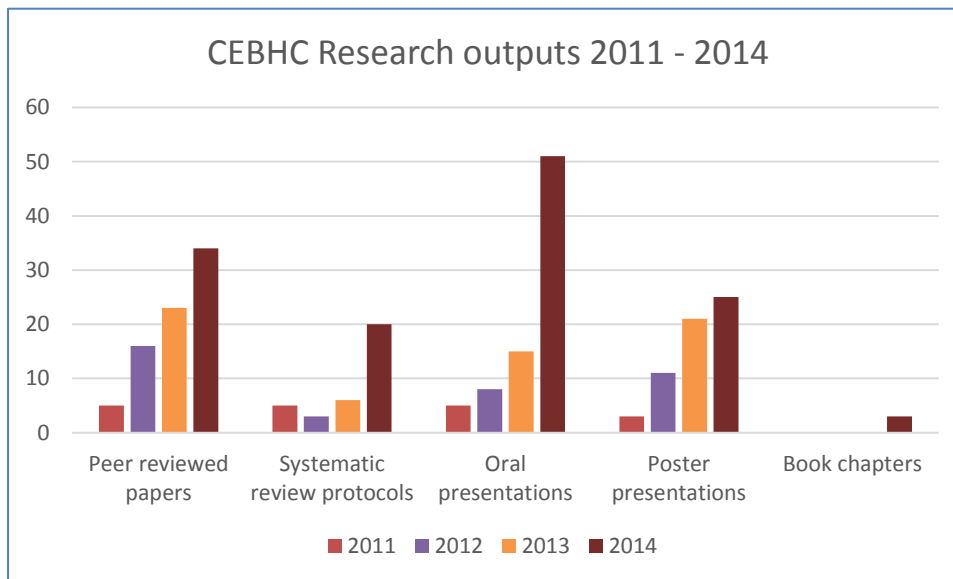
Profs Taryn Young and Charles Wiysonge

*Director and Deputy-Director
Centre for Evidence-based Health Care*

2014 - CEBHC IMPACTING HEALTH CARE ON VARIOUS FRONTS

RESEARCH

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 on 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. Research outputs have grown over the past four years (Figure) with various high profile publications in high **impact** journals. Centre staff supervise and provide **methodological mentorship and support** to various postgraduate student. Annex 1 provides details of all research outputs.



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 via the Effective Health Care Research Consortium (EHCRC) (www.evidence4health.org). The foundation of the Consortium was a collaborative effort between five international partners based in Africa, East-Asia, China, Norway and the UK. Together partners work towards preparing and updating Cochrane Reviews on the effects of health care relevant to low- and middle-income countries; and identifying approaches to ensure dissemination and use of the results of systematic reviews in decision making. The CEBHC **leads** this work in the African region and provides project management to collaboration partners in Cameroon, Nigeria, and South Africa. Within South Africa, the CEBHC works closely with Cochrane South Africa at the South African Medical Research Council. We are currently in year four of this five-year collaborative project.

The Chronic Diseases Initiatives in Africa (CDIA) is a collaboration between institutions in South Africa, Tanzania and the USA. It serves as a regional hub to evaluate and develop models for care and prevention of risk factors of chronic diseases of lifestyle, train researchers, and work with government authorities to formulate cost-effective plans to decrease the impact of chronic diseases in Africa. The Cochrane South Africa, South African Medical Research Council, and the CEBHC were awarded joint funding from the Cochrane Collaboration's Global Evidence Synthesis Initiative for this project through which these institutions support the CDIA by delivering systematic reviews of the effects of interventions that will help inform policies and strategies aimed at addressing the high burden of non-communicable diseases in Africa. In 2014 the collaboration evaluated the evidence base on *the effects of blanket screening for hypertension and/or diabetes mellitus compared to other forms of screening or no screening in South Africa*. An overview of systematic reviews were completed in 2014 and published in the South African Medical Journal (SAMJ) in February 2015. It identified a gap in the evidence regarding systematic reviews that answer the question of this project. The team is now conducting a Cochrane Review of screening interventions for type 2 diabetes.



Low carbohydrates diets for weight loss and cardiovascular benefits have generated controversy between advocates, media and health professionals. The Heart and Stroke Foundation South Africa and other stakeholders, approached the CEBHC to provide evidence to inform their

OPEN ACCESS Freely available online



Low Carbohydrate versus Isoenergetic Balanced Diets for Reducing Weight and Cardiovascular Risk: A Systematic Review and Meta-Analysis

Celeste E. Naude^{1*}, Anel Schoonees¹, Marjanne Senekal², Taryn Young^{1,3}, Paul Garner⁴, Jimmy Volmink^{1,3}

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responses to the ongoing debates. We established a multidisciplinary technical team to oversee the approach and conduct of the project. Drawing on Cochrane

Overview of Systematic Reviews methods, we firstly examined existing synthesised evidence on dietary macronutrient manipulation for weight loss and cardiovascular health by critically summarising content and methodological components to inform the need for, and methods of a new systematic review. We included 50 reviews after screening 892 records and identified a number of constraints related to interpreting existing synthesised evidence, and consequently, the need for a new systematic review. To further improve our understanding of these diets, we examined and summarised the main themes in the advocacy literature on low carbohydrate diets and their supposed benefits. This information along with the constraints identified in the critical summary of existing reviews helped inform the protocol for the new systematic review using Cochrane methods. We synthesised evidence from relevant randomised controlled trials that compared weight loss and changes in cardiovascular risk factors in overweight and obese adults, allocated to either a low carbohydrate or a balanced weight loss diet with equal energy content. Nineteen trials were included ($n = 3209$). The review concluded that trials show weight loss in the short-term irrespective of whether the diet is low carbohydrate or balanced. There is probably little or no difference in weight loss and changes in cardiovascular risk factors up to two years of

follow-up when overweight and obese adults, with or without type 2 diabetes, are randomised to low carbohydrate diets and isoenergetic balanced weight loss diets. To disseminate the findings of the review, we planned, developed and implemented a **stakeholder-specific dissemination strategy**, including identifying priority stakeholders, communication objectives and channels; tailoring approaches for stakeholders; developing appropriate products; and interacting with key role players. This was done by structured engagement with the Heart and Stroke Foundation South Africa, Chronic Disease Initiative in Africa, Nutrition Society of South Africa, Association for Dietetics in South Africa and the Professional Board for Dietetics and Nutrition of the Health Professions Council of South Africa. Stakeholders for dissemination included scientists, health professionals, media, public and policymakers. Implementation resulted in wide reach, including 14 scientific presentations, two national television and five radio interviews, broad social media coverage, Altmetric score in the 99th percentile and more than 199 print, online and broadcast media contributions. The **reach** was likely positively influenced by the controversy and public interest, as well as by interaction between the researchers and key stakeholders.



The Stellenbosch University (SU) BEME International Collaboration Centre (BICC) was established in March 2014 and is jointly coordinated by the CEBHC and the Centre for Health Professions Education (CHPE). The lessons learnt and experience of the CEBHC

in conducting research synthesis in health care are now being transferred to inform medical education systematic reviews. The Best Evidence Medical Education (BEME) collaboration is an international group of individuals, universities and professional organisations committed to the development of evidence informed education in the medical and health professions. The SU BICC's involvement with BEME relates to contributing to the identification and conceptualisation of relevant topics for new systematic reviews; **promoting the use of systematic reviews** to inform medical and health professions education; contributing to the **editorial role** and function of BEME review groups; providing mentorship and support for conducting new BEME reviews; and seeking funds to support the functions of the BICC and for conducting new systematic reviews.

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*

KNOWLEDGE TRANSLATION

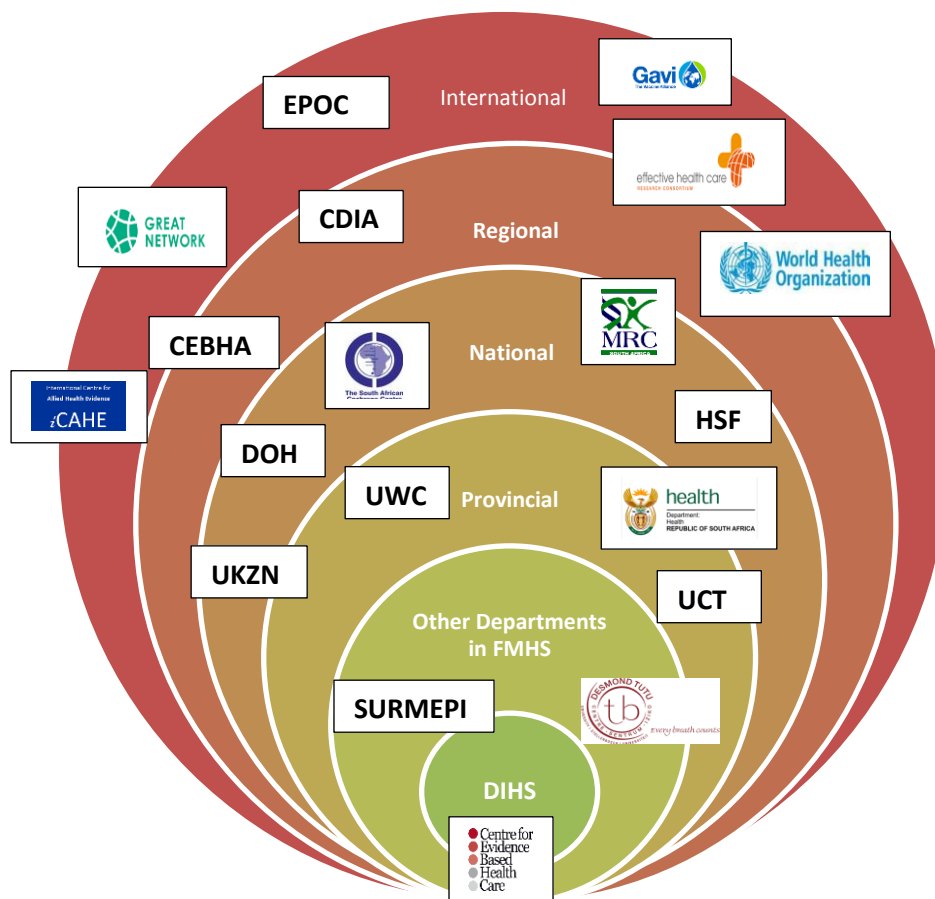
Core to the work of the CEBHC is the promotion of the **uptake of best evidence in decision making**. A key strategy is **engagement** with relevant stakeholders. The Centre works in collaboration with a number of local and international institutions, and staff serve on various committees (Annex 2).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

The Centre works with different divisions within the Department of Interdisciplinary Health Sciences (DIHS) and other departments within the FMHS at Stellenbosch University. Within the Western Cape Province we partner with various policymakers. The Centre links with the Heart and

Stroke Foundation (HSF), Chronic Disease Initiative in Africa (CDIA) and key stakeholders from the Universities of the Western Cape (UWC), Cape Town (UCT) and KwaZulu-Natal (UKZN).

At the 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, and also links to the Collaboration for Evidence-based Health in Africa (CEBHA).

Internationally, the Centre collaborates with the EHCRC (funded by DFID) as well as the Christian Medical College Vellore (India), Chongqing Medical University (China), Liverpool School of Tropical Medicine (UK), the GREAT Network, the Agence de Médecine Préventive (AMP), 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 low- and middle-income countries. The CEBHC also works with the Global Alliance for Vaccines and Immunisation (GAVI), various Cochrane Review groups and links actively with the World Health Organisation (WHO) at national, regional and international levels.



In a specific tailored strategy, the **Policy BUDDIES** project

<http://www.cebhc.co.za/policy-buddies/>, funded by the

Alliance for Health Policy and Systems Research, WHO,

draws on partners' experience in working in knowledge

translation. The project is conducted in South Africa and Cameroon. By **strengthening**

relationships, engagement and networks, we are linking sub-national policymakers and researchers in order to enhance their interaction and dialogue, create opportunities to learn more about each other's worlds and identify areas of work related to evidence-informed decision making. This is not a mentorship model, but rather an approach called 'buddying' with no hierarchical structure where both role players work together.



The CEBHC is a collaborating partner of **Project SAGE**

<http://www.mrc.ac.za/cochrane/sage.htm>, an innovative new

partnership that aims to **enhance the quality** of primary health care by engaging in a stakeholder-driven process to improve the standards of local **clinical guideline** development, adaptation, contextualisation and, ultimately, implementation. Project SAGE has been made possible as a result of a three-year (2014-2016) Flagship Grant from the South

African Medical Research Council (SAMRC). The project is divided into three phases – mapping, development and capacity building.

The CEBHC is also part of the GREAT Network,

<http://greatnetworkglobal.org/>, funded by the Canadian Institutes

of Health Research, which has designated collaborating centres in

South Africa (the CEBHC), Kosovo, Thailand and Argentina. The

objectives of the GREAT Network are to (1) establish a network of partners and stakeholders that are interested in improving maternal and child health in low- and middle-income countries through effective knowledge translation and implementation research; (2) build capacity in the science and practice of knowledge translation and implementation research across relevant stakeholder groups in low- and middle-income countries; and (3) develop a framework for guideline implementation relevant to the needs of partners in low- and middle-income countries, and advance the science and practice of knowledge translation and implementation research through understanding how to adapt, implement and evaluate guidelines that span maternal and child care, access to care, and the referral process in low- and middle-income countries.



In addition, the CEBHC has teamed up with the Norwegian Knowledge Centre for the Health Services to prepare structured evidence summaries known as SUPPORT Summaries, <http://www.supportsummaries.org/>. One reason for the slow progress in achieving the health Millennium Development Goals in low- and middle-income countries is the difficulty that policymakers have in accessing high-quality

information about potentially effective interventions to improve health systems. We are searching global databases for systematic reviews of ways to organise, finance and govern the delivery of effective health care interventions. To make this information more **accessible** to policymakers we are preparing structured summaries of relevant reviews. These summaries extract information from systematic reviews, evaluate the information and present it in a user-friendly manner so that

decision-makers can quickly review the evidence and decide whether a particular innovation is likely to be effective in their own context.

The CEBHC also contributed to the development of an **innovative** electronic database known as PDQ (“pretty darn quick”)-Evidence, which aims to provide rapid and easy access to the best available evidence for decisions about health systems. PDQ-Evidence (<http://www.pdq-evidence.org/>) was developed and is currently maintained by systematically searching 18 databases for relevant systematic reviews and overviews of systematic reviews. In 2014, in collaboration with the Norwegian Knowledge Centre for the Health Services, we conducted both user-testing and an evaluation of PDQ-Evidence in South Africa. The **user testing** focused on identifying aspects of PDQ-Evidence’s design, functionality and content that needed adjustment, as well as generating new ideas for further improvement. After the user-testing and consequent improvement of PDQ-Evidence, we evaluated how well the database performs compared to a selection of other databases when searching for systematic reviews.

Media Interactions: CEBHC regularly engages with the media, which is a key stakeholder in knowledge translation activities. This **engagement** in 2014 has included various topics predominantly related to the low carbohydrate review, as well as childhood nutrition, obesity, beverages and fast foods. Media engagement is aimed at communicating best evidence and promoting its uptake in decision making, and has included print and digital media, radio and television interviews in 2014. The media engagement linked to the dissemination of the findings of the low carbohydrate review was reported by Newsclip Media Monitoring (PTY) Ltd. as having an Advertising Value Equivalency of R8 447 011 for the 16 week period following the publication date (8 July to 28 October 2014). The Advertising Value Equivalency (AVE) refers to what the said media coverage would cost if it were advertising space.

TRAINING AND SUPPORT

Strategic goal: *To enhance EBHC knowledge, skills and practices through teaching health care professionals and other stakeholders*

Promoting and enhancing the teaching and learning of EBHC is core to the work of the CEBHC. During 2014, various sessions/workshops were offered at undergraduate, postgraduate and continuing professional development level (Annex 3).

The **Medical Education Partnership Initiative (MEPI)** aims to increase the capacity and quality of African medical education, improve retention of medical graduates, and promote regionally relevant research in sub-Saharan African medical schools through locally-led innovative programmes. MEPI is funded by PEPFAR. Stellenbosch University is one of 13 universities funded in the African region, and functions under the banner of SURMEPI. Within SURMEPI, the CEBHC provides leadership for the EBHC subproject which aims to enhance teaching of EBHC at under- and postgraduate levels, as well as to health care professionals working in the field.



At an undergraduate level the centre continues to facilitate learning of EBHC to undergraduate medical students at various phases in the MB,ChB programme at both the Tygerberg campus and Rural Clinical School (RCS) in Worcester. In 2014 the Centre facilitated sessions for all first-, second-, and fifth-year medical students and also implemented clinically integrated teaching of EBHC within the Psychiatry middle and late clinical rotations, and at the RCS. A summary of sessions offered is provided in Table 1.

Table 1. SURMEPI EBHC teaching and learning 2014		
	Total number of sessions	Total number of students
Undergraduate		
Number of RCS SI trained	6	19 per session
First year – Health in context	8	384 per session
	4	96 per session
First year – Introduction to Clinical Medicine		
Middle phase – Psychiatry	8	29 per session
Pharmacology 5 th years	1	185
	4	92 per session
Late phase – Psychiatry	6	30 per session
Biostatistics		
Biostatistics seminars	6	85
Biostatistics data management workshop	6	20 per session
Knowledge translation		
KT workshops with health care workers	1	23
Systematic review		
Rural research conference workshop	1	12
Systematic reviews and meta-analysis	Full semester course	29
Teaching within EBHC framework		
Workshops	2	24

For EBHC to be integrated throughout the MB,ChB curriculum, lecturers need to be comfortable with facilitating the learning of EBHC. Together with SURMEPI colleagues, the Centre has thus hosted various workshops for faculty members on teaching within an EBHC framework. In 2014, we hosted joint workshops between Stellenbosch University and the University of Cape Town, and also presented a course on systematic reviews to University of KwaZulu-Natal. The team use

research and evaluation to inform the approaches used and has conducted curriculum reviews, graduate surveys, faculty interviews and systematic reviews to inform their strategies.

Rohwer et al. BMC Medical Education 2014, 14:236
http://www.biomedcentral.com/1472-6920/14/236



TECHNICAL ADVANCE

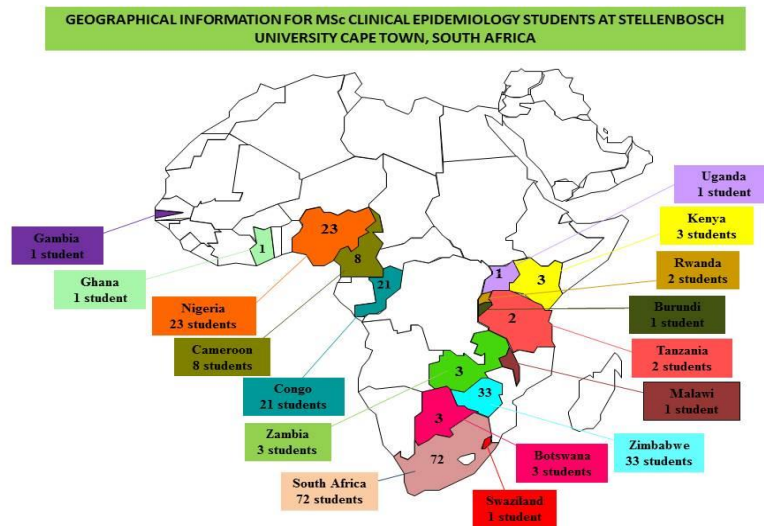
Open Access

Methods used and lessons learnt in conducting document reviews of medical and allied health curricula – a key step in curriculum evaluation

Anke Rohwer^{1*}, Anel Schoonees¹ and Taryn Young^{1,2}

Enhancing and expanding the programmatic offering of the MSc in Clinical Epidemiology. The MSc in Clinical Epidemiology (www.sun.ac.za/clinepi), registered within the Division of Community Health, 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. Students come from various health care disciplines and various countries in the African region. The MSc in Clinical Epidemiology programme is inseparable from the work of the CEBHC as staff play key roles in enhancing and expanding the programmatic offering. Staff convene various modules, facilitate sessions, provide teaching assistance and support, and are involved in the development and



implementation of new structured modules. CEBHC staff supervise various master's and PhD students. Of these, 11 master's students graduated in 2014 (Annex 1).

Building Biostatistics Capacity in sub-Saharan Africa: Taking Action. In the past five years, two workshops on building biostatistics capacity in sub-Saharan Africa have been initiated and led by the National Institute of Allergy and Infectious Diseases (NIAID), National Institutes of Health (NIH). From 8 to 10 July 2014 the Biostatistics Unit at the CEBHC hosted a workshop which brought together a group of biostatisticians from the region – the University of KwaZulu-Natal, WITS,

Universities of Nairobi, Botswana, Zimbabwe, Ghana, Zambia, KMCU, Stellenbosch University (SU) as well as KEMRI were represented – and from McMaster University. The focus of this workshop was to put previous workshops' recommendations into action. It provided an opportunity to brainstorm about biostatistics capacity development in Africa and the enhancement



and establishment of collaborative links to work together. After considering the key role of biostatisticians in the design, conduct, analysis and reporting of research and the limited number of biostatisticians and M Biostats programmes in the region;, participants showed support for an M Biostats to be established at SU. It is envisioned that the programme will be based at the FMHS, and will collaborate with main campus. Participants discussed the structure of a master's programme in biostatistics, lessons learnt from other similar programmes, the competencies students would have to obtain, and collaboration in building biostatistics capacity. Underpinning all discussions and planning was the shared mission that it was time for action and that more could be achieved by working together.

Management

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 Centre is managed by a Director, her deputy and Management Committee, while oversight is provided by a Governing Board (Annex 4). 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 provide 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).

POLICY BUDDIES – BUILDING DEMAND FOR EVIDENCE IN DECISION MAKING THROUGH INTERACTION AND ENHANCING SKILLS: The CEBHC provides leadership and project management for the Policy BUDDIES collaborative project. The CEBHC works with the Cochrane South Africa, the Health Systems and Services Research Unit at Stellenbosch University, the Centre for the Development of Best Practices in Health (Cameroon) and the Liverpool School of Tropical Medicine (UK). The project is funded by the World Health Organisation.

R³ for CDIA - RELEVANT AND ROBUST SYSTEMATIC REVIEWS TO SUPPORT THE CHRONIC DISEASES INITIATIVES IN AFRICA: Cochrane South Africa, South African Medical Research Council and the CEBHC were awarded joint funding from the Cochrane Collaboration's Global Evidence Synthesis Initiative (GESI) for this project through which these institutions will support CDIA by delivering systematic reviews of the effects of interventions that will help inform policies and strategies aimed at addressing the high burden of non-communicable diseases in Africa.

SURMEPI: Within the SURMEPI project the CEBHC leads the EBHC activities at under-, postgraduate and continuing professional development levels.

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 5). In 2014 we took some time out for team building. A valuable opportunity to work together outside of the office environment and foster our core values. Staff continue to be active in leading and contributing to funding proposals (Annex 6).





ANNEX 1: RESEARCH OUTPUTS 2014

PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. Viljoen E, Visser J, Koen N, **Musekiwa A**. A systematic review and meta-analysis of the effect and safety of ginger in the treatment of pregnancy-associated nausea and vomiting. *Nutrition Journal* 2014, 13:20
2. Cassidy T, Inglis G, **Wiysonge CS**, Matzopoulos R. A systematic review of the effects of poverty deconcentration and urban upgrading on youth violence. *Health & Place* 26 (2014) 78–87
3. Nachega JB, Parienti JJ, **Uthman OA**, Gross R, Dowdy DW, Sax PE, Gallant JE, Mugavero MJ, Mills EJ, Giordano TP. Lower pill burden and once-daily antiretroviral treatment regimens for HIV infection: a meta-analysis of randomized controlled trials. *Clinical Infectious Diseases*. 2014; 58: 1297-1307 (full text available at <http://m.cid.oxfordjournals.org/content/early/2014/03/05/cid.ciu046.full>)
4. Carney T, Myers BJ, Louw J, **Okwundu CI**. Brief school-based interventions and behavioural outcomes for substance-using adolescents. *Cochrane Database of Systematic Reviews* 2014, Issue 2. Art. No.: CD008969. DOI: 10.1002/14651858.CD008969.pub2.
5. **Ochodo EA**, van Enst WA, Naaktgeboren CA, de Groot JAH, Hooft L, Moons KGM, Reitsma JB, Bossuyt PM and Leeflang MMG. Incorporating quality assessments of primary studies in the conclusions of diagnostic accuracy reviews: a cross-sectional study. *BMC Med Res Methodol*. 2014 Mar 3;14(1):33. doi: 10.1186/1471-2288-14-33.
6. Noubiap JJ, Nansseu JR, Kengne KK, Wonkam A, **Wiysonge CS**. Low hepatitis B vaccine uptake among surgical residents in Cameroon. *Int Arch Med*. 2014 Mar 14;7(1):11.
7. Lutge E, Lewin S, **Volmink J**. Economic support to improve tuberculosis treatment outcomes in South Africa: a qualitative process evaluation of a cluster randomized controlled trial. *Trials*. 2014 Jun 19;15(1):236. doi:10.1186/1745-6215-15-236
8. McCaul JK, **McCaul MG**. Pre-hospital antibiotics for open fractures: Is there time? *SA Orthopaedic Journal* Autumn 2014, Vol 13, No 1 (34-37)
9. Rohwer A, Garner P, **Young T**. Reading systematic reviews to answer clinical questions. *Clinical Epidemiology and Global Health*. 2014; 2:39-46.
<http://download.journals.elsevierhealth.com/pdfs/journals/2213-3984/PIIS2213398413000833.pdf>
10. **Wiysonge CS**. The importance of systematic reviews in radiology. *S Afr J Rad*. 2014;18(1); Art. #609, 2 pages. [Http://dx.doi.org/10.4102/sajr.v18i1.609](http://dx.doi.org/10.4102/sajr.v18i1.609)
11. Machingaidze S, Hussey GD, **Wiysonge CS**. Trends in the types and quality of childhood immunisations research output from Africa 1970-2010: mapping the evidence base. *BMC Health Serv Res* 2014 Feb 4;14(1):52. doi: 10.1186/1472-6963-14-52.
12. **Young T, Rohwer A, Volmink J**, Clarke M. What Are the Effects of Teaching Evidence-Based Health Care (EBHC)? Overview of Systematic Reviews. *PLoS ONE* (2014) 9(1): e86706. doi:10.1371/journal.pone.0086706
13. Opie LH, **Wiysonge CS**. β -Blocker therapy for patients with hypertension--reply. *JAMA*. 2014 Feb 26;311(8):862-3. doi: 10.1001/jama.2014.336.
14. Botha PJ, Chikte U, Barrie R, **Esterhuizen TM**. Self-reported musculoskeletal pain among dentists in South Africa: A 12-month prevalence study. *SADJ* June 2014, Vol 69 no 5 p206 - p212
15. Khan S, **Musekiwa A**, Chikte UME, Omar R. Differences in Functional Outcomes for Adult Patients with Prosthodontically-Treated and –Untreated Shortened Dental Arches: A Systematic Review. *PLoS ONE* (2014) 9(7): e101143. doi:10.1371/journal.pone.0101143.

16. Stones DK, de Bruin GP, **Esterhuizen TM**, Stefan DC. Childhood cancer survival rates in two South African units. *S Afr Med J* 2014;104(7):501-504. DOI:10.7196/SAMJ.7882.
17. Koegelenberg CFN, Noor F, Bateman ED, van Zyl-Smit RN, Bruning A, O'Brien JA, Smith C, Abdool-Gaffar MS, Emanuel S, **Esterhuizen TM**, Irusen EM. Efficacy of Varenicline Combined With Nicotine Replacement Therapy vs Varenicline Alone for Smoking Cessation A Randomized Clinical Trial. *JAMA*. 2014;312(2):155-161. doi:10.1001/jama.2014.7195.
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19. **Naude CE, Schoonees A**, Senekal M, **Young T**, Garner P, et al. (2014) Low Carbohydrate versus Isoenergetic Balanced Diets for Reducing Weight and Cardiovascular Risk: A Systematic Review and Meta-Analysis. *PLoS ONE* 9(7): e100652. doi:10.1371/journal.pone.0100652.
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4. Adebayo EF, Ataguba JE, **Uthman OA**, **Okwundu CI**, Lamont KT, **Wiysonge CS.** Factors that affect the uptake of community-based health insurance in low-income and middle-income countries: a systematic protocol. *BMJ Open*. 2014 Feb 14;4(2):e004167. doi: 10.1136/bmjopen-2013-004167.
5. **Wiysonge CS**, Herrera CA, Ciapponi A, Lewin S, Garcia Marti S, Opiyo N, Oxman AD, Pantoja T, Paulsen E, Peñaloza B, Rada G. Financial arrangements for health systems in low-income countries: an overview of systematic reviews (Protocol). *Cochrane Database of Systematic Reviews* 2014, Issue 4. Art. No.: CD011084. DOI: 10.1002/14651858.CD011084.
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9. Ogunjale AO, **Okwundu CI.** Rilpivirine versus efavirenz for initial therapy in treatment-naïve, HIV-1-infected patients (Protocol). *Cochrane Database of Systematic Reviews* 2014, Issue 1. Art. No.: CD010935. DOI: 10.1002/14651858.CD010935.
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15. Adetokunboh OO, **Schoonees A, Wiysonge CS**. Antiviral efficacy and safety of abacavir-containing combination antiretroviral therapy as first-line treatment of HIV-infected children and adolescents: a systematic review protocol. Systematic Reviews 2014, 3:87.
16. Ismail MH, **Wiysonge CS**, Ricaforte-Campos JD, Clarke MJ. Entecavir for chronic hepatitis B (Protocol). Cochrane Database of Systematic Reviews 2014, Issue 7. Art. No.: CD011233. DOI: 10.1002/14651858.CD011233.
17. **Uthman OA**, Sinclair M, Willems B, **Young T**. Interventions to promote the use of seat belts (Protocol). Cochrane Database of Systematic Reviews 2014, Issue 7. Art. No.: CD011218. DOI: 10.1002/14651858.CD011218.
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19. Kagina BM, **Wiysonge CS**, Lesosky M, Madhi SA, Hussey GD. Safety of licensed vaccines in HIV-infected persons: a systematic review protocol. Systematic Reviews 2014, 3:101 (11 September 2014)
20. Abdullahi LH, Kagina BM, Cassidy T, Adebayo EF, **Wiysonge CS** and Hussey GD. Knowledge, attitudes and practices on adolescent vaccination among parents, teachers and adolescents in Africa: a systematic review protocol Systematic Reviews 2014, 3:100 (9 September 2014)

INTERNATIONAL ORAL PRESENTATIONS

1. **Ochodo E**. Strengthening Methods of Diagnostic Accuracy Studies. PhD Defence. Amsterdam, 19-Jun-14 (oral presentation)
2. **Young T**. The history and the future role of Evidence-based Health Care in Africa: a reflection. 3rd Annual Symposium, Collaboration for Evidence-Based Health Care in Africa, CEBHA, Addis Ababa, Ethiopia, 25 April 2014 (invited keynote talk)
3. **Wiysonge CS**. Strategies for improving health systems in Africa. Joint 1st international conference of the Cameroon Epidemiology Society and 3rd International Congress of the African Epidemiology Association, Yaoundé, 4-6 June 2014 (plenary presentation).
4. **Motaze NVM**, Mbuagbaw LM, **Young T**. Prostaglandins before Caesarean Section for Preventing Neonatal Respiratory Distress. Joint 1st international conference of the Cameroon Epidemiology Society and 3rd International Congress of the African Epidemiology Association, Yaounde, 4-6 June 2014 (oral presentation).
5. **Rohwer A**, Rehfuess E, **Young T**. Developing logic models for a systematic review on e-learning to increase evidence-based health care competencies. Campbell Colloquium, Belfast, Ireland. 16-19 June 2014 (oral presentation)
6. **Young T, Rohwer A, Volmink J**, Clarke M. What are the Effects of Teaching Evidence-Based Health Care (EBHC)? Overview of Systematic Reviews Campbell Colloquium, Belfast, Ireland, 16-19 June 2014 (oral presentation)
7. **Young T, Naude CE**, Zani B, Dudley L, Ongolo-Zogo P, Kredo T, **Wiysonge C**, Garner P. Policy BUDDIES: Policy-maker and researcher engagement for evidence-informed policy. Cochrane Colloquium, Hyderabad, India, 22-26 September 2014 (oral presentation)
8. **Young T**, Garner P. Primer in systematic reviews and research synthesis: helping people to find, appraise, interpret and use systematic reviews in Africa. Cochrane Colloquium, Hyderabad, India, 22-26 September 2014 (oral presentation)

9. **Young T.** Sustainable capacity development for research: taking the agenda forward. Cochrane Colloquium, Hyderabad, India, 22-26 September 2014 (Plenary)
10. **Wiysonge CS.** Building Public Health and health systems and services research in Africa. Seminar on Strengthening HSSR capacity in Africa; Cape Town, South Africa; 28-29 September 2014 (oral presentation).
11. Lewin S, Ciapponi A, Herrera C, Pantoja T, **Wiysonge CS.** Evidence from overviews of systematic reviews of governance, financial and delivery arrangements and implementation strategies for health systems in low-income countries. 3rd Global Symposium on Health Systems Research; Cape Town, South Africa; 30 September – 3 October 2014 (A participative dialogue session).
12. **Rohwer A,** Rehfuess E, **Young T.** E-Learning Of Evidence-Based Health Care (EBHC) To Increase EBHC Competencies In Healthcare Professionals: A Systematic Review. 3rd International Society for Evidence-Based Health Care Conference 2014, Taipei, Taiwan. 6-9 November 2014 (oral presentation)
13. **Rohwer A, Schoonees A, Young T.** Evaluation of evidence-based health care teaching and learning in the undergraduate allied health curricula of Stellenbosch University: Is there room for improvement? 3rd International Society for Evidence-Based Health Care Conference 2014, Taipei, Taiwan. 6-9 November 2014 (oral presentation)
14. **Wiysonge CS.** Mind the gap: 40 years of childhood vaccination programmes in Africa; 5th Infection Control African Network Conference; Harare, Zimbabwe; 3-5 November 2014 (keynote address).
15. **Wiysonge CS.** Health systems arrangements for disease surveillance in Africa; 5th Infection Control African Network Conference; Harare, Zimbabwe; 3-5 November 2014 (plenary presentation).

NATIONAL ORAL PRESENTATIONS

1. **Wiysonge CS.** Best evidence for assessing impact: an evidence-based health care approach; Inclusive Health Care Innovation Summit; Cape Town, South Africa; 29-30 January 2014.
2. **Wiysonge CS.** Supporting policy-relevant reviews and trials. Institute of Infectious Disease and Molecular Medicine (IDM) Seminar; Cape Town, South Africa; 22 January 2014 (invited).
3. **Wiysonge CS.** Research focus of the Centre for Evidence-based Health Care. Stellenbosch University Faculty of Medicine and Health Sciences – Karolinska Institute Research Symposium; Stellenbosch, South Africa; 13 March 2014.
4. **McCaul M,** A Lourens, T Kredo. Pre-hospital versus in-hospital thrombolysis for STEMI: systematic review. Stellenbosch Department of Statistics, 14 March 2014
5. **Naude CE.** Fat, carbohydrates and protein – low or high? Examining the evidence for macronutrient-focused diets. Association for Dietetics in South Africa, South Gauteng Branch Meeting, Johannesburg, 23 May 2014
6. **Wiysonge CS.** Systematic review of the epidemiology of and programmatic response to TB in people living with HIV in South Africa. WHO NDOH Satellite Session, 4th South African TB Conference, Durban, 11-13 June 2014.
7. **Nicol L.** Systematic review of the epidemiology of and programmatic response to TB in South African health care workers. WHO NDOH Satellite Session, 4th South African TB Conference, Durban, 11-13 June 2014
8. **Nicol L.** Systematic review of the epidemiology of and programmatic response to TB in people living in informal settlements. WHO NDOH Satellite Session, 4th South African TB Conference, Durban, 11-13 June 2014
9. **Rohwer A,** Rehfuess E, **Young T.** Developing logic models for a systematic review on e-learning to increase evidence-based health care competencies. SAAHE, Cape Town 26-28 June 2014
10. **Naude CE, Schoonees A,** Senekal M, **Young T,** Garner P, **Volmink J.** Low Carbohydrate versus Isoenergetic Balanced Diets for Reducing Weight and Cardiovascular Risk: A Systematic Review and Meta-Analysis. South African Cochrane Centre Systematic Review Session, Cape Town, 15 July 2014

11. **Naude CE.** Dietary prevention and management of obesity. Obesity Consultative Meeting, National Department of Health, 30 July 2014
12. **Naude CE.** Carbohydrate, fat and protein – low or high? Examining the scientific evidence. Nutrition Society of South Africa Fatty Acid Mini-symposium, Cape Town, 31 July 2014
13. **Naude CE.** Understanding Dietary Guidelines. Discovery Vitality Summit, Johannesburg, 1 August 2014
14. **Wiysonge CS,** Dudley LD, Oxman AD, Ciapponi A. Overviews Of Systematic Reviews On Delivery Arrangements, Financial Arrangements And Implementation Strategies For Health Systems In Low- And Middle-Income Countries. Stellenbosch University, Faculty of Medicine and Health Sciences, Annual Academic Day: Health systems strengthening. 13 August 2014
15. Orton K, **Rohwer A.** Exploring The Perceptions And Self-Perceived Knowledge Of Evidence-Based Health Care Amongst Registered Nurses In Rural Areas Of The Western Cape. Stellenbosch University, Faculty of Medicine and Health Sciences, Annual Academic Day: Health systems strengthening. 13 August 2014
16. **Young T,** Ongolo Zogo P, **Naude C,** Zani B, Kredo T, Dudley L, Garner P. Policy Buddies – Policymaker And Researcher Engagement For Evidence-Informed Policy. Stellenbosch University, Faculty of Medicine and Health Sciences, Annual Academic Day: Health systems strengthening. 13 August 2014
17. **Young T,** **Volmink J,** Clarke M, **Rohwer A.** Taking Stock Of Systematic Reviews On Teaching Evidence-Based Health Care (EBHC): Overview Of Systematic Reviews . Stellenbosch University, Faculty of Medicine and Health Sciences, Annual Academic Day: Health systems strengthening. 13 August 2014
18. **Rohwer A,** Rehfuess EA, **Young T.** E-Learning Of Evidence-Based Health Care (EBHC) To Increase EBHC Competencies In Health Care Professionals: A Systematic Review. Stellenbosch University, Faculty of Medicine and Health Sciences, Annual Academic Day: Health systems strengthening. 13 August 2014
19. **Nicol L,** Mehtar SM, Dheda KD, Van Der Walt MVW. Systematic Review Of The Epidemiology Of And Programmatic Response To TB In South African Health Care Workers. Stellenbosch University, Faculty of Medicine and Health Sciences, Annual Academic Day: Infectious diseases. 13 August 2014
20. **McCaul MG,** Lourens A, Kredo T. Pre-Hospital Versus In-Hospital Thrombolysis For St-Elevation Myocardial Infarction: A Cochrane Systematic Review And Meta-Analysis. Stellenbosch University, Faculty of Medicine and Health Sciences, Annual Academic Day: Non-Communicable Diseases. 13 August 2014
21. **McCaul MG,** McCaul JK. Pre-Hospital Antibiotics For Open Fractures: Is There Time? Stellenbosch University, Faculty of Medicine and Health Sciences, Annual Academic Day: Women and Child Health. 13 August 2014
22. **Zunza M,** Cotton MF, Esser M, Bettinger JA. Factors associated with HIV-infected mothers' perceptions of and reactions to, infant feeding in South Africa: Interactive Qualitative Analysis. Stellenbosch University, Faculty of Medicine and Health Sciences, Annual Academic Day: Women and Child Health. 13 August 2014
23. **Naude CE, Schoonees A,** Senekal M, **Young T,** Garner P, **Volmink J.** An approach to responding to a request to review the evidence on a complex topic: low carbohydrate diets for weight and cardiovascular health CEBHC/SACC Seminar: Nutrition systematic reviews: progress, challenges and potential solutions, Cape Town, 5 September 2014
24. **Wiysonge CS.** Research for health - Enhance the value and reduce the waste. Inaugural lecture, Faculty of Medicine and Health Sciences, Stellenbosch University; 9 September 2014.
25. **Naude CE.** Evidence-based recommendations for macronutrients – what are they and where do they come from? Pre-congress update: 25th Congress of the Nutrition Society of South Africa and the 13th Congress of the Association for Dietetics in South Africa, Johannesburg, 16 September 2014
26. **Naude CE, Schoonees A,** Senekal M, **Young T,** Garner P, **Volmink J.** Low Carbohydrate versus Isoenergetic Balanced Diets for Reducing Weight and Cardiovascular Risk: A Systematic Review and Meta-Analysis. 25th Congress of the Nutrition Society of South Africa and the 13th Congress of the Association for Dietetics in South Africa, Johannesburg, 17 - 19 September 2015

27. **Naude CE**, Coussens AK, Chaplin G, Wilkinson RJ, Jablonski NG. Serum and dietary vitamin D in young adults living under seasonal solar UVB conditions. 25th Congress of the Nutrition Society of South Africa and the 13th Congress of the Association for Dietetics in South Africa, Johannesburg, 17 - 19 September 2015
28. **Naude CE**. "Eat plenty of vegetables and fruit every day": a food-based dietary guideline for South Africa. 25th Congress of the Nutrition Society of South Africa and the 13th Congress of the Association for Dietetics in South Africa, Johannesburg, 17 - 19 September 2014
29. **McCaul M**, A Lourens, T Kredo. Pre-hospital versus in-hospital thrombolysis for STEMI: systematic review. Emergency Care Society of South Africa, 20 September 2014
30. **McCaul M**, W Stassen. Emergency Care Research Registry in RSA. Emergency Care Society of South Africa, 20 September 2014
31. **McCaul M**, McCaul JK. The Journey to pre-hospital antibiotics: Stepped Wedge Cluster RCT. Emergency Care Society of South Africa, 20 Sep 2014
32. **Young T**, Daniels K, Kredo T, **Wiysonge C**. Knowledge translation – challenges and opportunities of moving research evidence into policy and practice. Western Cape Provincial Research Day 2014, Translation of research into policy or practice, 24 October 2014, Mitchells Plain, Cape Town (Round table discussion)
33. Machingaidze S, Durao S, **Young T**, **Volmink J**, Kredo T. Evidence for Impact – Working together to support Knowledge Translation in the African Region. Western Cape Provincial Research Day 2014, Translation of research into policy or practice, 24 October 2014, Mitchells Plain, Cape Town (Round table discussion)
34. **Young T**. Systematic reviews. TED panel on EBP processes and lessons. UCT Graduate School of Development Policy and Practice/Presidency course on Evidence-based policymaking and implementation. 28th October, Cape Town (Invited panelist)
35. **Naude CE**. Fat, carbohydrates and protein – low or high? Unpacking the evidence for macronutrient-focused diets. South African Association for Food Science and Technology / Association for Dietetics in South Africa Seminar, Stellenbosch, 25 November 2014
36. Schroeder I, Steyl T, Daniels F, **McCaul M**, Bozalek V. Engaging academics in collaboration: Case Studies using Google Docs, HELTASA, 20 November 2014
37. **Naude CE**. Mind the gap: the importance of evidence-based principles in nutrition research and practice. ARP Walker Memorial Lecture at 25th Congress of the Nutrition Society of South Africa and the 13th Congress of the Association for Dietetics in South Africa, Johannesburg, 2014
38. **Ochodo E.A**, Gopalakrishna G, Leeflang M.M.G. Translating results of diagnostic tests into practice: the case of schistosomiasis. African Society for Laboratory Medicine. Cape Town, 01-Dec-14
39. **Ochodo E.A**, Sinclair D.J, Garner P. Over diagnosis of Malaria: The role of non-adherence to test negative results. African Society of Laboratory Medicine conference, Cape Town, Dec 2014

INTERNATIONAL POSTER PRESENTATIONS

1. **Motaze NVM**, **Wiysonge CS**. Impact of social and community health insurance schemes on the poor and the informal sector in low- and middle-income countries: a support summary. Joint 1st international conference of the Cameroon Epidemiology Society and 3rd International Congress of the African Epidemiology Association, Yaounde, Cameroon, 4-6 June 2014.
2. **Motaze NVM**, Mbuagbaw LM, **Young T**. Prostaglandins before Caesarean Section for Preventing Neonatal Respiratory Distress. 17th World Congress of Basic and Clinical Pharmacology, Cape Town, South Africa, 13-18 July 2014
3. **Zunza M**, Cotton MF, Esser M, Bettinger JA. Factors associated with HIV-infected mothers' perceptions of and reactions to, infant feeding choices in South Africa, 20th IEA World Congress, Anchorage, Alaska, 17-21 August 2014

4. **Naude CE, Schoonees A**, Senekal M, **Young T**, Garner P, **Volmink J**. Macronutrient manipulation for weight loss and cardiovascular health: A critical summary of existing systematic reviews. WPHNA Congress, Building Healthy Global Food Systems: A New imperative for Public Health, Oxford, United Kingdom, 8-9th September 2014
5. Kashangura R, Sena ES, **Young T**, Garner P. Effects of MVA85A vaccine on tuberculosis challenge in animals: Systematic review and meta-analysis. Cochrane Colloquium, Hyderabad, India, 22-26 September 2014
6. **Wiysonge CS**, Herrera CA, Ciapponi A, Lewin S, Garcia Marti S, Opiyo N, Oxman AD, Pantoja T, Paulsen E, Peñaloza B, Rada G. Financial arrangements for health systems in low-income countries: an overview of systematic reviews; 22nd Cochrane Colloquium; Hyderabad, India; 22-26 September 2014.
7. Ciapponi A, Lewin S, Bastías G, Dudley L, Flottorp S, Gagnon MP, Garcia Marti S, Glenton C, Herrera CA, **Okwundu CI**, Opiyo N, Oxman AD, Pantoja T, Paulsen E, Peñaloza B, Rada G, Suleman F, **Wiysonge CS**. Delivery arrangements for health systems in low-income countries: an overview of systematic reviews; 22nd Cochrane Colloquium; Hyderabad, India; 22-26 September 2014.
8. Pantoja T, Opiyo N, Ciapponi A, Dudley L, Gagnon MP, Herrera CA, Lewin S, Garcia Marti S, Oxman AD, Paulsen E, Peñaloza B, Rada G, **Volmink J**, **Wiysonge CS**. Implementation strategies for health systems in low-income countries: an overview of systematic reviews; 22nd Cochrane Colloquium; Hyderabad, India; 22-26 September 2014.
9. Herrera CA, Ciapponi A, Bastías G, Lewin S, Garcia Marti S, **Okwundu CI**, Opiyo N, Oxman AD, Pantoja T, Paulsen E, Peñaloza B, Rada G, **Wiysonge CS**. Governance arrangements for health systems in low-income countries: an overview of systematic reviews; 22nd Cochrane Colloquium; Hyderabad, India; 22-26 September 2014.
10. **Young T**, **Naude CE**, Zani B, Dudley L, Ongolo-Zogo P, Kredo T, **Wiysonge C**, Garner P. Policy BUDDIES - policy-maker and researcher dialogue and engagement for evidence-informed policy. Health systems global symposium. Cape Town, South Africa 30 September – 3 October 2014
11. Adebayo EF, Ataguba JE, **Uthman OA**, Lamont KT, **Wiysonge CS**. Determinants of Community-Based Health Insurance Coverage in Low- and Middle-Income Countries: a Systematic Review. 3rd Global Symposium on Health Systems Research, Cape Town, South Africa, 30 September – 3 October 2014.
12. Engel ME, Abdullahi L, **Wiysonge CS**, Irlam J, Swingler G, Barth DD, Hussey GD. Establishment of a Systematic Review Support Unit to incentivize research at UCT: Review of the first year. Africa Evidence Network Colloquium; Johannesburg, South Africa; 24-28 November 2014

NATIONAL POSTER PRESENTATIONS

1. **Rohwer A**, Rehfuess E, **Young T**. E-learning of evidence-based health care (EBHC) to increase EBHC competencies in health care professionals: A systematic review. SAAHE, Cape Town 26-28 June 2014
2. **Wiysonge CS**, **Uthman OA**, Ota MO, Mayosi BM. A Bibliometric Analysis Of Health Research Productivity In Africa Since 2000. Stellenbosch University, Faculty of Medicine and Health Sciences, Annual Academic Day: Health systems strengthening. 13 August 2014
3. Kredo T, **Young T**, Louw Q, Daniels K, **Volmink J**, Grimmer K, Machingaidze S, **Ochodo EA**. South African Guideline Excellence (Sage) Project – Improving Development And Use Of Primary Health Care Guidelines. Stellenbosch University, Faculty of Medicine and Health Sciences, Annual Academic Day: Health systems strengthening. 13 August 2014
4. Athuman, Kabanyanyi AM, **Rohwer A**. Intermittent Preventative Antimalarial Treatment For Children With Anaemia: A Systematic Review. Stellenbosch University, Faculty of Medicine and Health Sciences, Annual Academic Day: Infectious diseases. 13 August 2014
5. Usenbo A, Kramer V, **Young T**, **Musekiwa A**. Prevalence Of Arthritis In Africa: A Systematic Review And Meta-Analysis. Stellenbosch University, Faculty of Medicine and Health Sciences, Annual Academic Day: Violence, trauma, injury and rehabilitation. 13 August 2014

6. Irusen PH, **Rohwer A**, Steyn DW, **Young T**. Treatments for breast abscesses in breastfeeding women: A systematic review. Stellenbosch University, Faculty of Medicine and Health Sciences, Annual Academic Day: Women and Child Health. 13 August 2014
7. Turawa EB, **Rohwer A**, **Musekiwa A**. Interventions for preventing and treating postpartum constipation. Stellenbosch University, Faculty of Medicine and Health Sciences, Annual Academic Day: Women and Child Health. 13 August 2014
8. **Motaze NVM**, Mbuagbaw LM, **Young T**. Prostaglandins before Caesarean Section for Preventing Neonatal Respiratory Distress. Stellenbosch University, Faculty of Medicine and Health Sciences, Annual Academic Day: Women and Child Health. 13 August 2014
9. **Zunza M**, Cotton MF, Esser M, Bettinger JA. Factors associated with HIV-infected mothers' perceptions of and reactions to, infant feeding in South Africa: Interactive Qualitative Analysis. SAPA & SAAPS Congress, Cape Town International Convention Centre, 11 September 2014.
10. **McCaul M**, JK McCaul. Pre-hospital antibiotics: Is there time? Emergency Care Society of South Africa, 21 September 2014
11. **McCaul M**. Spinal Clearance Guideline for South Africa. Emergency Care Society of South Africa, 20 September 2014
12. **Young T**, Ongolo-Zogo P, **Naude CE**, Zani B, Kredo T, **Wiysonge CS**, Dudley L, Garner P. Policy BUDDIES – policymaker and researcher engagement for evidence-informed policy. Western Cape Provincial Research Day 2014, Translation of research into policy or practice, 24 October 2014, Mitchells Plain, Cape Town
13. Engel ME, Abdullahi L, **Wiysonge CS**, Irlam J, Swinger G, Barth DD, Hussey GD. Establishment of a Systematic Review Support Unit to incentivize research at UCT: Review of the first year. IDM Ten-Year Anniversary Symposium; Cape Town, South Africa; 2-4 November 2014

BOOK CHAPTERS

1. Yamey G. and **Volmink J**. (2014) An Argument for Evidence-Based Policy-Making in Global Health, in The Handbook of Global Health Policy (eds G. W. Brown, G. Yamey and S. Wamala), John Wiley & Sons, Ltd, Chichester, UK. doi: 10.1002/9781118509623.ch7
2. **Volmink J**. and Clarke M. (2014) Systematic reviews and meta-analysis, in The Oxford Textbook of Global Public Health (eds R. Detels, M. Gulliford, Q.A. Karim and C.C. Tan), Oxford University Press.
3. **Young T**, **Volmink J**. (2014) Literature review, in Epidemiology. A Research Manual for South Africa (eds R. Ehrlich, G Joubert), Oxford University Press.

POSTGRADUATE STUDENT SUPERVISION

1. Jeremy Stockhall, MSc Clinical Epidemiology, Stellenbosch University - ongoing. Topic: South African Physiotherapists' Confidence in Evidence-Based Practice: a Cross Sectional Study. (Supervisor: **Taryn Young**)
2. Nicholas Mangeya, MSc Clinical Epidemiology, Stellenbosch University - ongoing. Topic: Detection of human immunodeficiency virus (HIV) type-1 antibodies in saliva, as an alternative method of HIV diagnosis: a diagnostic accuracy study and a preliminary assessment for home-based HIV testing in South Africa. (Supervisor: **Tonya Esterhuizen**)
3. Selvan Naidoo, MSc Clinical Epidemiology, Stellenbosch University - ongoing. Topic: A Pragmatic Randomised Controlled Trial Of An Occupation Specific Structured Exercise Intervention Programme In A Group Of Paramedic Students At A South African University. (Supervisor: **Tonya Esterhuizen**)
4. Ogunjale Adeniyi, MSc Clinical Epidemiology, Stellenbosch University - ongoing. Topic: Rilpivirine versus Efavirenz as initial therapy in treatment-naïve, HIV-1-infected patients. A systematic review. (Supervisor: **Charles Okwundu**)
5. Casper Tarumbuwa, MSc Clinical Epidemiology, Stellenbosch University - ongoing. Topic: Malnutrition in HIV exposed babies enrolled on the prevention of mother-to-child HIV transmission programme at a

- district hospital in Namibia. (Supervisor: **Celeste Naude**)
6. Benjamin Kagina, Postdoc, University of Cape Town - ongoing. Topic: Strengthening immunisation programmes in Africa through evidence-based medicine. (Supervisor: **Charles Wiysonge**)
 7. Charles Okwundu, PhD, Stellenbosch University - ongoing. Topic: Screening for risk of severe hyperbilirubinemia in South African newborns. (Supervisor: **Charles Wiysonge**).
 8. Olatunbosun Olawale, MSc, Stellenbosch University - ongoing. Topic: Knowledge, attitudes and practices of diabetics in Pretoria, South Africa regarding seasonal influenza and influenza vaccination. (Supervisor: **Charles Wiysonge**)
 9. Shingai Machingaidze, PhD, University of Munich - ongoing. Topic: Reaching the unvaccinated and under-vaccinated children of Africa. (Supervisor: **Charles Wiysonge**)
 10. Leila Abdullahi, PhD, Stellenbosch University - ongoing. Topic: Adolescent immunisation in Africa in the decade of vaccines. (Supervisor: **Charles Wiysonge**)
 11. Arthemon Nguweneza, MSc Clinical Epidemiology, Stellenbosch University - ongoing. Topic: The impact of mass media interventions on immunisation coverage: a systematic review (Supervisor: **Charles Wiysonge**)
 12. Olatunji Adetokunboh, MSc Clinical Epidemiology, Stellenbosch University – ongoing. Topic: A systematic review of the effectiveness and safety of abacavir backbone therapies for treatment of HIV-infected children. (Supervisors: **Charles Wiysonge** and **Anel Schoonees**)
 13. Judy Gatei, MSc Clinical Epidemiology, Stellenbosch University – ongoing. Topic: Barriers and facilitators to exclusive breastfeeding practices among HIV infected women and their uninfected infants in South Africa and Nigeria. (Co-supervisor: **Moleen Zunza**)
 14. Victoria Ndarukwa, MSc Clinical Epidemiology, Stellenbosch University – ongoing. Topic: Risk factors for mother-to-child transmission of HIV at 6 weeks postpartum in PMTCT programs in Harare, Zimbabwe. (Co-supervisor: **Moleen Zunza**)
 15. Anthony Usenbo, MSc Clinical Epidemiology, Stellenbosch University - ongoing. Topic: Prevalence and risk factors of Arthritis in Africa. (Supervisors: **Alfred Musekiwa** and **Taryn Young**)
 16. Adedapo Awotidebe, MSc Clinical Epidemiology, Stellenbosch University – ongoing. Topic: Low-Level Laser Therapy and Exercise for Patients with Shoulder Disorders in Physiotherapy Practice (Supervisor: **Taryn Young**)
 17. Donald Nyanguridza, MSc Clinical Epidemiology, Stellenbosch University – Graduated 2014. Topic: Determinants of casting phase duration for clubfoot treatment with Ponseti method in Swaziland. (Supervisor: **Tonya Esterhuizen**)
 18. Tapiwa Chirima, MSc Clinical Epidemiology, Stellenbosch University – Graduated 2014. Topic: Inappropriate Antibiotic Prescribing: A Cross-Sectional Study And Qualitative Assessment, Swaziland. (Supervisor: **Tonya Esterhuizen**)
 19. Karien Orton, MSc Clinical Epidemiology, Stellenbosch University – Graduated 2014. Topic: Perceptions and self-perceived knowledge of evidence-based health care amongst registered nurses and midwives in rural areas of the Western Cape. (Supervisor: **Anke Rohwer**)
 20. Nkosiya Hlabano, MSc Clinical Epidemiology, Stellenbosch University - Graduated. Topic: Cataract surgery outcomes in Mbabane Hospital. (Supervisor: **Tonya Esterhuizen**)
 21. Esther Adebayo, MPH, University of Cape Town – Graduated 2014. Topic: A systematic review of factors associated with the uptake of community-based health insurance in low- and middle-income countries. (Supervisor: **Charles Wiysonge**)
 22. Robyn Kalan, MPH, University of Cape Town – Graduated 2014. Topic: A systematic review of mobile phone text messaging for improving the uptake of childhood immunisation coverage. (Supervisor: **Charles Wiysonge**)
 23. Hayley Irusen, MSc Clinical Epidemiology, Stellenbosch University – Graduated 2014. Topic: Management of breast abscesses in breastfeeding women for improving outcomes. (Supervisors: **Anke Rohwer** and **Taryn Young**)

24. Eunice Turawa, MSc Clinical Epidemiology, Stellenbosch University – Graduated 2014. Interventions for preventing and treating postpartum constipation. (Supervisors: **Alfred Musekiwa** and **Anke Rohwer**)
25. Doreen Nehumba, MSc Clinical Epidemiology, Stellenbosch University – Graduated 2014. Topic: Comparison of lipid profiles between naïve and ART- experienced HIV infected adults in Harare, Zimbabwe. (Supervisor: **Tonya Esterhuizen**)
26. Loveness Nkhata, MSc Clinical Epidemiology, Stellenbosch University – Graduated 2014. Topic: The prevalence and perceived contributing factors for work-related musculoskeletal disorders among nurses at The University Teaching Hospital in Lusaka, Zambia. (Supervisor: **Tonya Esterhuizen**)
27. Tawanda Chivese, MSc Clinical Epidemiology, Stellenbosch University – Graduated 2014. Topic: The association between cigarette smoking and the subsequent development of Crohn’s Disease as well as with Crohn’s Disease phenotype, in the Western Cape population of South Africa: A case-control study. (Supervisor: **Tonya Esterhuizen**)

ANNEX 2: INTELLECTUAL INPUT



Taryn Young

1. Member, Cochrane author forum, 2013-ongoing
2. Member, Curriculum committee, International Society on Evidence-based Health Care, 2013-ongoing
3. Member, Scientific committee, 22nd Cochrane Colloquium, 2014
4. Member, Scientific committee, Third Global Symposium on Health Systems Research, 2014
5. Editor, Cochrane Sexually Transmitted Diseases Review Group. July 2008 - ongoing
6. Editor, Current Allergy and Clinical Immunology. 2006 – ongoing
7. Chair of the Masters in Clinical Epidemiology programme, selection and bursary committees 2008 - ongoing
8. Member of EHCRC Executive Committee, 2011- ongoing
9. South African Epidemiology Association (SACEA) executive committee member, 2013 – ongoing
10. Peer reviewer, International Journal of TB and Lung Disease, January 2014

Charles Wiysonge

1. Associate Editor: BMC Health Services Research; 2014 – ongoing.
2. Editor, Cochrane Column, International Journal of Epidemiology: 2014 – ongoing.
3. Peer reviewer, South African Health Review 2013; January-February 2014.
4. Peer reviewer, BMJ Open, May 2014
5. Peer reviewer, AJHPE Special Edition; May-June 2014.
6. Peer reviewer, International Journal of Epidemiology; July 2014.
7. Peer reviewer, BMJ Open, October 2014
8. Peer reviewer, BMC Health Services Research; August-September 2014
9. Peer reviewer, PLoS ONE, August 2014.
10. Peer reviewer, Application for position of Professor, University of Pretoria; April 2014.
11. Peer reviewer, Application for position of Associate Professor, Stellenbosch University; 2014
12. Member, PhD Evaluation Committee, Stellenbosch University; July 2014
13. Member, WHO African Advisory Committee on Health Research and Development; 2014.
14. Member, WHO African Task Force on Immunisation; 2014 – ongoing.
15. Member, Strategic Advisory Group of Experts on Immunisation (SAGE) Working Group on Ebola Vaccines and Vaccination, WHO, Geneva; 2014 – ongoing.
16. Member, Independent Review Committee, Global Alliance for Vaccines and Immunisation, Geneva, Switzerland; 2014 – ongoing.
17. Consultant, Supporting national immunisation advisory committees in African countries, Agence de Medecine Preventive, Paris, France; 2014.
18. Member, Executive Committee, GREAT (Guideline-driven, Research priorities, Evidence synthesis, Application of evidence, and Transfer of knowledge) Network; 2014 – ongoing.
19. Member, Scientific and Organising Committee, 9th International Conference on Typhoid Fever and Other Invasive Salmonellosis; April 2014 to May 2015.

Celeste Naude

1. South African Epidemiology Association (SACEA) executive committee member, 2013 – ongoing
2. Technical Reference Group on Healthy Eating. Western Cape Government Health. July 2014 – ongoing
3. Task team for National Obesity strategy. National Department of Health, May 2014 – ongoing; invited to present at the first consultative meeting at National Department of Health; Pretoria, 30 July 2014
4. Invited member of the Chronic Disease Initiative for Africa, April 2014 – ongoing

5. Development of an information sheet on low carbohydrate diets for publication by CDIA, HSF, ADSA, NSSA, HCSA. July 2014
6. Development of a Q&A media resource document on low carbohydrate diets for use by CDIA, HSF, ADSA, NSSA, HPCSA. July 2014
7. Request from National Department of Health: Are the draft WHO guidelines on free sugars for adults and children evidence-based? 5 December 2014
8. Invited by the Association for Dietetics in South Africa to present the ARP Walker Memorial Lecture at the 25th Congress of the Nutrition Society of South Africa and the 13th Congress of the Association for Dietetics in South Africa, 17 – 19 September 2014, Johannesburg. Title: *Mind the gap: the importance of evidence-based principles in nutrition research and practice*
9. Peer reviewer. South African Journal of Clinical Nutrition, 14 February 2014; 20 March 2014
10. Peer reviewer. Nutrition (Elsevier), 12 April 2014
11. Peer reviewer. Nutrition Research (Elsevier), 9 December 2014
12. Member of the Workgroup for the Revised Food-Based Dietary Guidelines (FBDG) for South Africa, National Department of Health; Directorate: Nutrition; 2011 – 2014

Anke Rohwer

1. Peer reviewer, BMC Medical Education (September 2014)
2. Editorial Assistant (Methods Advisor) Cochrane Public Health Group, October 2014 – ongoing

Eleanor Ochodo

1. Peer reviewer. A trivariate meta-analysis of diagnostic studies accounting for prevalence and non-evaluable subjects: re-evaluation of coronary CT angiography studies; BMJ Open, 14 March 2014
2. Peer reviewer. First trimester serum tests for Down's syndrome screening; Cochrane Library, 16 March 2014
3. Peer reviewer. The accuracy of 18F-FDG PET in the early diagnosis of Alzheimer's disease dementia and other dementias in people with MCI; Cochrane Library, 8 December 2014
4. Peer reviewer. Accuracy of patient self-report of stroke: a systematic review from the UK Biobank stroke outcomes group; PLoS One, 8 December 2014
5. Extended member of STARD group (Standards for the reporting of Diagnostic Accuracy)
6. External Examiner of Master's thesis; Master of Science in International Health, The Royal Tropical Institute/Vrije Universiteit, Amsterdam, The Netherlands ; 23 August 2014

Moleen Zunza

1. Executive member; South African Epidemiology Association (SACEA) 2013 – ongoing
2. Member; International Epidemiology Association (IEA) 2014 - ongoing

Anel Schoonees

1. Copy editing for Cochrane Infectious Diseases Group, April 2014, Systematic review title: Pre-referral rectal artesunate for severe malaria
2. Copy editing for Cochrane Infectious Diseases Group, March 2014, Systematic review title: Corticosteroids for dengue infection

Tonya Esterhuizen

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

ANNEX 3: TEACHING SESSIONS/LECTURES/WORKSHOPS



UNDERGRADUATE

MB,ChB (SU)

Year	Sessions
1	<ul style="list-style-type: none"> Principles of clinical epidemiology and value of research in health care Principles of EBHC and Phrasing research questions Approach to searching the literature Overview of different types of studies Bias, error and confounding Studies about risk factors: Case-control studies Studies about diagnostic accuracy Studies about effects of interventions: RCT Evidence-informed decision making and role of systematic reviews for choice of drug treatments Descriptive statistics Measures of occurrence Diagnostic accuracy Measures of association Measures of effect Confidence intervals
2	<ul style="list-style-type: none"> Diagnostic test accuracy
Middle phase	<ul style="list-style-type: none"> Reading a paper on risk factor
5	<ul style="list-style-type: none"> Principles and application of EBM Finding the Evidence Critical appraisal of systematic reviews
Late phase	<ul style="list-style-type: none"> Reading a systematic review on treatment
6	<ul style="list-style-type: none"> Formulating clear questions. Lecture to: Student interns at RCS. Finding the evidence: How to search electronic databases. Lecture to: Student interns at RCS. How to read a paper about diagnostic tests. Lecture to: Student interns at RCS. How to read a paper on therapy (RCT). Lecture to: Student interns at RCS. How to read a systematic review of a risk factor question. Lecture to: Student interns at RCS. EBHC project presentations. Lecture to: Student interns at RCS.

Dietetics (SU)

- Naude CE. Nutrigenomics module (part of Therapeutic Nutrition 378). Lecture to: 3rd year undergraduate; BSc Dietetics students. Date: 23-24 October 2014

POSTGRADUATE

MSc in Clinical Epidemiology (SU)

Co-conveners of modules

- Fundamentals of Epidemiology (Taryn Young, Folasade Adeniyi and Mark Engel)
- Systematic Reviews and Meta-Analysis (Taryn Young, Anel Schoonees)
- Writing and Reviewing Scientific papers (Taryn Young, Charles Wiysonge)
- Diagnosis and Screening (Charles Okwundu)
- Biostatistics I (Tonya Esterhuizen)
- Biostatistics II (Tonya Esterhuizen)
- Research Proposal Writing and Grantmanship (Tonya Esterhuizen)
- Teaching EBHC (Taryn Young)

Teaching assistants of modules, MSc in Clinical Epidemiology

- Biostats I & II – Moleen Zunza
- Systematic Reviews – Michael McCaul
- Randomised controlled trials – Michael McCaul

Teaching sessions offered

<i>Module</i>	<i>Session</i>
Biostatistics I	<ul style="list-style-type: none"> • Esterhuizen T. Lecture: Introduction and describing data. Date: 5 February 2014 • Esterhuizen T. Exercise: Describing data. Date: 5 February 2014 • Esterhuizen T and Zunza M. Practical: Introduction to Stats and describing data. Date: 5 February 2014 • Esterhuizen T. Lecture: Estimation I. Date: 6 February 2014 • Esterhuizen T. Exercise: Estimation I. Date: 6 February 2014 • Esterhuizen T and Zunza M. Practical: Estimation I. Date: 6 February 2014 • Esterhuizen T. Lecture: Estimation II. Date: 7 February 2014 • Esterhuizen T. Exercise: Estimation II. Date: 7 February 2014 • Esterhuizen T and Zunza M. Practical: Estimation II. Date: 7 February 2014 • Esterhuizen T. Lecture: T-tests. Date: 2 April 2014 • Esterhuizen T. Exercise: T-tests. Date: 2 April 2014 • Esterhuizen T and Zunza M. Practical: T-tests. Date: 2 April 2014 • Esterhuizen T. Lecture: Nonparametric tests. Date: 3 April 2014 • Esterhuizen T. Exercise: Nonparametric tests. Date: 3 April 2014 • Esterhuizen T and Zunza M. Practical: Nonparametric tests. Date: 3 April 2014 • Esterhuizen T. Lecture: Categorical data. Date: 4 April 2014 • Esterhuizen T. Exercise: Categorical data. Date: 4 April 2014 • Esterhuizen T and Zunza M. Practical: Categorical data. Date: 4 April 2014
Fundamentals of Epidemiology	<ul style="list-style-type: none"> • Adeniyi F. Introduction to Fundamentals of epidemiology. Date: 4 February 2014 • Engel M. Study designs: Experimental studies. Date: 4 February 2014 • Wiysonge C. Study designs: Observational studies. Date: 4 February 2014

	<ul style="list-style-type: none"> • Adeniyi F. Linking exposure and disease - measures of effect/association. Date: 31 March 2014 • Engel M. The problem of random and systematic error. Date: 31 March 2014 • Adeniyi F. The challenge of confounding and effect modification. Date: 1 April 2014 • Engel M. Early detection: screening. Date: 1 April 2014 • Adeniyi F. Association and causation. Date: 1 April 2014 • Adeniyi F. Introduction to Fundamentals of epidemiology. Date: 21 July 2014 • Engel M. Study designs: Observational studies. Date: 21 July 2014 • Adeniyi F. Linking exposure and disease - measures of effect/association. Date: 8 September 2014 • Engel M. The problem of random and systematic error. Date: 8 September 2014 • Adeniyi F. The challenge of confounding and effect modification. Date: 9 September 2014 • Engel M. Early detection: screening. Date: 9 September 2014 • Adeniyi F. Association and causation. Date: 9 September 2014
Research proposal writing and grantmanship	<ul style="list-style-type: none"> • Young T. Study design review and practical exercises. Date: 18 July 2014 • Esterhuizen T. Overview: Module in perspective. Date: 22 July 2014 • Esterhuizen T. Biostatistical applications: Sample size and power calculations – Theory & Practice. Date: 23 July 2014 • Esterhuizen T. Sampling techniques. Date: 23 July 2014 • Esterhuizen T. Questionnaire design. Date: 21 August 2014 • Esterhuizen T. Data Analysis Plan. Date: 21 August 2014 • Esterhuizen T. Data management. Date: 22 August 2014 • Esterhuizen T. Data Analysis (I) and (II). Date: 10 September 2014
Writing and reviewing scientific papers	<ul style="list-style-type: none"> • How to critically appraise a clinical trial • How to critically appraise a case-control study • How to critically appraise a systematic review and meta-analysis • How to critically appraise a paper about diagnostic tests • How to critically appraise a cross-sectional study • How to critically appraise a cohort study
Systematic reviews	<ul style="list-style-type: none"> • Young T. Introduction to research synthesis. Date: 21 July 2014 • Young T. Zooming in on systematic reviews: what are they and where can we find them? Date: 21 July 2014 • McCaul M. Planning & preparing for a systematic review. Defining the systematic review question & developing criteria for selecting studies. Date: 21 July 2014 • Schoonees A and McCaul M. Revision of Block 1's content and Quiz. Date 18 August 2014 • Esterhuizen T. Review: data types, measures of disease occurrence and association, measures of effects. Date 18 August 2014 • Esterhuizen T. Analysing data and undertaking meta-analysis. Exercises on RevMan. Date 18 August 2014 • Esterhuizen T. Forest plot exercises. Date 18 August 2014 • SACC Team and Schoonees A. Assessing risk of bias in included studies. Date 19 August 2014 • Okwundu C. GRADEing the evidence - theory. Date 19 August 2014 • Okwundu C. Presenting results and Summary of Findings table. Date 20 August 2014 • Okwundu C. Interpreting results and drawing conclusions. Date 20 August 2014 • McCaul M and SACC Team. Using systematic reviews to inform policy and practice. Date: 7 October 2014 • Schoonees A and McCaul M. Online discussion facilitated by a lecturer. Topic: Using

	systematic reviews to inform policy and practice. Date: 7 October 2014
Biostatistics II	<ul style="list-style-type: none"> • Esterhuizen T. Analysis of variance (ANOVA). Date: 06 August 2014 • Esterhuizen T. Correlation and simple regression. Date: 07 August 2014 • Esterhuizen T. Multiple linear regression. Date : 08 August 2014 • Esterhuizen T and Zunza M. Logistic regression. Date: 4 September 2014 • Esterhuizen T and Zunza M. Survival analysis. Date: 5 September 2014 • Esterhuizen T and Zunza M. Revision. Date: 10 October 2014
Randomised control trials	<ul style="list-style-type: none"> • McCaul M. Minimization in RCTs. Date: 01 September 2014

MPhil Public Mental Health (UCT)

- Young T. Literature and systematic reviews. Lecture to: MPhil Public Mental Health Students at UCT. University of Cape Town. January 2014

Pre-doctoral Programme

- Esterhuizen T. Statistical design of quantitative research. Faculty of Medicine and Health Sciences Pre-doctoral Programme. Date: 19 February 2014
- Esterhuizen T. Sampling strategies. Faculty of Medicine and Health Sciences Pre-doctoral Programme. Date: 19 February 2014
- Esterhuizen T. Data capture and selection of statistical tests. Faculty of Medicine and Health Sciences Pre-doctoral Programme. Date: 19 February 2014
- Young T. EBHC and systematic reviews. Faculty of Medicine and Health Sciences Pre-doctoral Programme. Date: February 2014

CONTINUING PROFESSIONAL DEVELOPMENT: PRESENTATIONS, SEMINARS AND WORKSHOPS

Lectures and presentations

- Schoonees A. Design and critical appraisal of case-control studies. Lecture to: Post-graduate students and clinicians doing the short course in clinical research skills. Stellenbosch University, Tygerberg Campus. Date: 9 June 2014
- Schoonees A. Cochrane reviews: methods and application. Lecture to: Post-graduate students and clinicians doing the short course in clinical research skills. Stellenbosch University, Tygerberg Campus. Date: 14 July 2014

Workshops

- Evidence-Based Practice (EBP) Starter Kit. University of Cape Town. 13 August 2014
- Teaching EBP in a clinical context. Stellenbosch University, Tygerberg Campus. 24 August 2014
- Informed public health decision-making: finding, reading and using systematic reviews. PHASA. September 2014

Seminar Series

The CEBHC offers a variety of seminars to health professionals in the field. In 2014 a dedicated seminar series was offered to the University of Western Cape Faculty of Dentistry as part of their staff development initiatives. The series was offered over a four-month period.

<i>Evidence-based health care seminar series</i>
Introduction to EBHC: the what, the why, and the how
Phrasing clear questions
Accessing the evidence (Hands-on searching)
How to (I): Read a paper about therapy
How to (II): Read a systematic review and meta-analysis
How to (III): Read a paper about diagnostic tests
How to (IV): Read a paper about risk factors (cohort study)
How to (V): Read a paper about harm (case-control study)
How to (VI): Read clinical practice guidelines
Implementing research findings

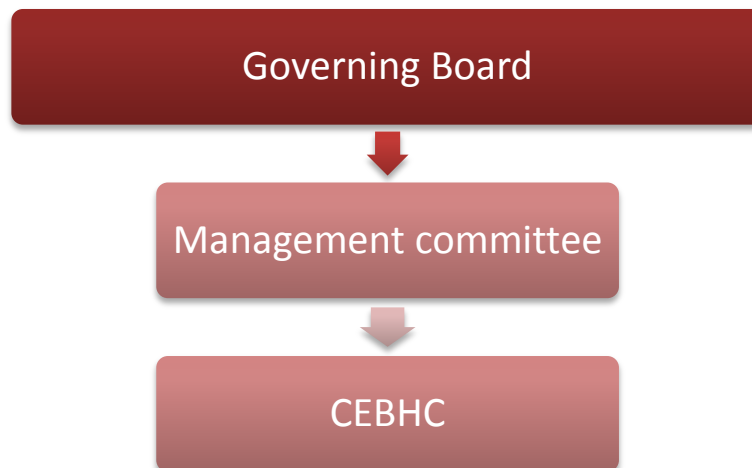
The Biostatistics Unit also facilitated monthly 1.5-hour biostatistics seminar series covering current topical issues. The main objective of the seminar series was to create awareness and literacy of biostatistical methods that are commonly found in research articles. Such knowledge assists students and researchers in interpreting and evaluating evidence from studies that apply these advanced methods. Participants were given an article relevant to the topic under discussion to read prior to the seminar.

Date	Topic	Facilitator
27 Feb	Practical Regression Analysis	Rhoderick Machekano
27 March	An introduction to meta-analysis	Tonya Esterhuizen
17 April	Logistic Regression	Rhoderick Machekano
28 May	Survival Analysis	Tonya Esterhuizen
7 July	Planning for the twilight years: Why we need more biostatisticians involved in trials in the elderly living in long-term care settings	Lehana Thabane
30 July	Should we combine apples and oranges: Creating practice based evidence	Prof Shrikant I Bangdiwala
27 August	Sample size	Rhoderick Machekano
24 September	Writing up analysis plan	Moleen Zunza & Michael McCaul



ANNEX 4: GOVERNANCE

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 DIHS, 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 Brodovsky
- Prof Usuf Chikte (Chairperson)
- Dr Therese Fish
- Prof Paul Garner
- Prof Wilhelm Steyn
- Dr Krish Vallabhjee
- Prof Jimmy Volmink
- Dr Taryn Young (Director)

Management committee: The management committee consisting of the Director, head of DIHS 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.



ANNEX 5: STAFF

The work of the CEBHC is supported by an excellent team of full-time and part-time staff. Each staff member has a detailed job description, key performance areas and development plans.



Dr Folasade Adeniyi

Folasade Adeniyi is a medical doctor with a master's degree in Clinical Epidemiology from Stellenbosch University, South Africa. She is involved in conducting systematic reviews of health-care interventions, and teaching clinical epidemiology and evidence-based health care. She is interested in conducting research on the best ways to translate evidence to practice with special emphasis on the uptake of best evidence in child health.



Ms Tonya Esterhuizen

Tonya Esterhuizen 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.



Ms Liesel Esterhuizen

Liesel Esterhuizen is the Administrative Assistant 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.



**Prof Rhoderick N
Machekano**

Rhoderick N Machekano holds a PhD in Biostatistics and a MPH in Epidemiology and Biostatistics. He is currently the Head of the Biostatistics Unit where he leads the development of biostatistics capacity building at Stellenbosch FMHS. His duties include managing the Unit, teaching, biostatistical consulting, 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.



Mrs Traci Naidoo

Traci Naidoo is the project manager at the Centre for Evidence-based Health Care. She is responsible for 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.



Dr Celeste Naude

Celeste Naude 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. She 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. Celeste has authored and co-authored papers in peer-reviewed journals and textbook chapters, disseminated research findings at international and national congresses and been an invited speaker at congresses, symposiums, and workshops. She serves as a peer-reviewer for national and international journals and as a supervisor and examiner for postgraduate students.



Dr Liesl Anne Nicol

Liesl Nicol 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. She was the study director for the Academy of Science of South Africa's Consensus Study on HIV, Tuberculosis and Nutrition and also has experience in research administration.



Dr Eleanor Ochodo

Eleanor Ochodo is a medical doctor specialised in epidemiology and public health. She holds a MB,ChB from the University of Nairobi, Kenya, a postgraduate certificate in Infectious Diseases from the University of Edinburgh and an MSc in International Health from the Free University of Amsterdam, The Netherlands (Vrije Universiteit). She is currently completing her PhD in Clinical Epidemiology with the University of Amsterdam, The Netherlands. For her PhD, titled "Strengthening methods for diagnostic accuracy studies", she evaluates the methodology of primary diagnostic accuracy studies and systematic reviews of diagnostic accuracy. Her current interests are biomarker and medical test evaluations, global health diagnostics, systematic reviews and meta-analyses, evidence-based medicine and global health.



Dr Charles Okwundu

Charles Okwundu 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.



Ms Anke Rohwer

Anke Rohwer is a researcher at the CEBHC. She has a background in midwifery (BCur) and has completed her masters in Clinical Epidemiology in 2010. She is involved in various systematic reviews and research projects on teaching EBHC to health care professionals at undergraduate, postgraduate and continuing medical education level. She has a particular interest in online learning in an African context, which is the focus of her PhD research. Other research activities include conducting systematic reviews as part of the Effective Health Care Research Programme Consortium, which promotes evidence-based practice and policy in Africa.



Ms Anel Schoonees

Anel Schoonees is a researcher with undergraduate training in Food Science (2006). She also holds a master's degree in Nutrition (2011) and a master's degree in Clinical Epidemiology (2012) from SU. 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 (e.g. evaluation of allied health curricula for EBHC competencies), 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 such as the media and a NGO.



**Prof Charles Shey
Wiysonge**

Charles Wiysonge is the Deputy Director of the CEBHC. He holds a PhD from the University of Cape Town (South Africa), an MPhil from the University of Cambridge (UK) and an MD from the University of Yaoundé I (Cameroon), and undertook a non-degree research fellowship in evidence-based health care at the UK Cochrane Centre in Oxford. He has extensive experience in teaching EBHC and in working with clinicians and policy makers to promote the use of research evidence in decision-making. His research work has focused primarily on evidence synthesis for childhood immunisation, HIV, TB, and cardiovascular disease. His research work has a wide international impact; judging from bibliometric analyses, influence on global health policies, and invitations to join international scientific and policymaking committees.



Prof Taryn Young

Taryn Young, MB,ChB, FCPHM, MMED, is the director of the CEBHC. She is an epidemiologist with a specialist degree in Public Health and considerable expertise in the field of evidence-based health care. She has coordinated international collaborative projects which facilitate the use of best evidence in health-care policy and practice, conducted many systematic reviews and provided intensive training, mentorship and editorial support to authors of Cochrane and other systematic reviews. She leads the coordination of the Effective Health Care Research Consortium, which promotes evidence-based practice and policy in Africa, taking into account the unique attributes of the region and the relevance of proposed activities. Integral to her work is the co-ordination and evaluation of training programmes for under- and postgraduate students in public health and epidemiology, EBHC and research synthesis nationally and in the African region.



Ms Moleen Zunza

Moleen Zunza qualified as a nurse in 2004 at the University of Zimbabwe and received a master's degree in Clinical Epidemiology at Stellenbosch University (2011). She is currently studying towards her PhD, with the Department of Paediatrics and Child Health at Stellenbosch University, and is also a part-time honours student in Statistics at Stellenbosch University. Her main interests are in Maternal and Child Health and HIV/AIDS epidemiological research and Biostatistics. Work experience includes; registered nurse at Parirenyatwa Group of Hospitals (2004-2008); researcher at the Centre for Evidenced-based Health Care, Stellenbosch University (2011 to date). She assists with the teaching of the Biostatistics module for the MSc in Clinical Epidemiology Programme.



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 the editor of the professional ECSSA journal, Sanguine. Michael holds a BHSc in Emergency Medical Care (DUT) and an MSc in Clinical Epidemiology at Stellenbosch University. He is currently enrolled for his honours in statistics and is aiming to undertake a PhD in epidemiology focusing on guideline development. He is currently working as a researcher at the Biostatistics unit, much of his work involves undergraduate and postgraduate teaching, biostatistics consultation, knowledge translation and research.

Extraordinary staff appointments

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

- 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
- Dr Olalekan Uthman, Warwick University, United Kingdom



ANNEX 6: FUNDING PROPOSALS

On an ongoing basis CEBHC staff actively engage in the preparation and submission of funding proposals. The tables below provide a summary of proposals submitted and its outcomes in 2014.

Funder	Project/proposal title	Collaborators	Lead or contributor	Outcome	Amount
South African Medical Research Council	Screening for risk of severe hyperbilirubinemia in South African newborns	Prof Vinod Bhutani, Prof. Johan Smith	Lead	Successful	R500,000 per annum x 4 years
NRF	KIC Scientific Events Grants/Travel Grants 2014 (Round 2)	N/A	Lead	Successful	ZAR 19,000.00
Stellenbosch University	SCIENTIFIC TRAVEL & PUBLICATION INCENTIVE FUND	N/A	Lead	Successful	ZAR 10,000.00
Stellenbosch University	FMHS postdoctoral research fellowships 2014	Dr Nyanyiwe M Mbeye, University of Malawi (proposed PostDoc)	Lead	Successful	ZAR 180,000.00 per year for 2 years
WHO	Systematic reviews to inform WHO HIV guidelines	Birmingham University UK and Enhance Reviews	Collaborator	Successful	USD 18 250
WHO	Systematic reviews to inform WHO Nutrition guidelines	N/A	Lead	Successful	USD 40 000
CDC	SUCCEED	Stellenbosch University collaborative project	Collaborator	Successful	USD 198 000 for year 1
BMBF (Federal Ministry of Education and Research)	Collaboration for Evidence-based Health Care and Public Health in Africa (CEBHA+)	Makerere University, University of Rwanda, South African Cochrane Centre, Chronic Disease Initiative in Africa, Addis Ababa University, Ludwig-Maximilians-University of Munich, German Cochrane Centre	Contributor	Successful	1,625,757 € over 5 years

COE in Food Security	Towards attaining national nutritious food baskets	UP, NWU, UCT, Western Cape DoA, Bureau for Food and Agricultural Policy, MRC	Contributor	Awaiting outcome	ZAR 171 000 for 3 years
NRF	NRF Free-standing-Scarce Skills-Innovation Postdoctoral Fellowship Call for 2015	Dr Melvin A Ambele, University of Pretoria (proposed PostDoc)	Lead	Await outcome	ZAR 225,000.00 per year
NRF	NRF Free-standing-Scarce Skills-Innovation Postdoctoral Fellowship Call for 2015	Dr Valentine N Ndze, University of Yaounde I, Cameroon (proposed PostDoc)	Lead	Await outcome	ZAR 225,000.00 per year
Margaret McNamara Memorial Fund	Health Outcomes of different feeding regimens in a birth cohort of HIV exposed infants	KID CRU	Lead	Await outcome	R100 000
S2S	Health Outcomes of different feeding regimens in a birth cohort of HIV exposed infants	KID CRU	Lead	Await outcome	R5 000
WHO/TDR	Translating research into practice-The Case for Diagnostics (TRIP-D project)	Effective Health Care Research Consortium, International Health Group, Liverpool School Tropical Medicine, UK: University of Amsterdam, The Netherlands	Lead	Not successful	US\$ 48,167 for 1.5 years
Gracia Machel	Health Outcomes of different feeding regimens in a birth cohort of HIV exposed infants	KID CRU	Lead	Not successful	R87 000
NRF	Evidence map of rotavirus research in Africa: a scoping review	University Hospital Sahloul, Sousse, Tunisia	LEAD	Not successful	ZAR 477,508.00 for 2 years
Welcome Trust	LEADing Excellence in Research to address Disability due to Chronic disease and Injury (LEADER Project)	CEBHC, Division of Physiotherapy, various divisions in the DIHS	Contributor	Not Successful	£2,814,138 for 5 years
Thrasher fund	Screening for risk of severe hyperbilirubinemia in South African newborns	Prof Vinod Bhutani, Prof Johan Smith	Lead	Not Successful	US\$ 220,000
Welcome Trust	Sub-Saharan Africa Advanced Training Programme for Leadership and Excellence in Biostatistics	CEBHC, WITS, and other institutions in the region	Contributor	Awaiting outcome	£ 3,341,140 over 5 years

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