



UNIVERSITY OF TORONTO
FACULTY OF MEDICINE



Medical Alumni Association
University of Toronto



Comprehensive Research
Experience for Medical Students

Medical Alumni Association & CREMS Programs
Dr. Elva May Rowe Fund

PLEASE PROVIDE A COPY OF THE ON-SITE SUPERVISOR'S CV. THIS IS REQUIRED IN ORDER TO PROCESS YOUR APPLICATION

PLEASE SUBMIT THIS COMPLETED FORM TO CREMS.PROGRAMS@UTORONTO.CA BY **FEBRUARY 25, 2019 – Extension granted until February 29, 2019, 3 pm EST**

PART A: SUPERVISOR AND ON-SITE SUPERVISOR CONTACT INFORMATION

U OF T RESEARCHER	
NAME:	Dr. William Cherniak
EMAIL:	w.cherniak@mail.utoronto.ca
DEPARTMENT:	Department of Family and Community Medicine
SGS (please indicate where)	N/A
Selected Publications (3 most recent and relevant to the project)	<ol style="list-style-type: none"> 1. Peluso M and Cherniak W. “Objectives and competencies of international electives for medical trainees”. Global Health Experiential Education: From Theory to Practice. Arya N and Evert J. Published by Routledge, an Imprint of the Taylor and Francis Group, 2018. 2. Cherniak W, Latham E, Astle B, Anguyo G, Beaunoir T, Buenaventura JH, DeCamp M, Diaz K, Eichbaum Q, Hedimbi, Cat Myser M, Nwobu C, Standish K, Evert J. Visiting Trainees in Global Settings: Host and Partner Perspectives on Desirable Competencies. Annals of Global Health. 2017;82(2):359-368 and http://www.sciencedirect.com/science/article/pii/S2214999617306057 3. Cherniak W, Drain PK, Brewer TF. Educational objectives of international medical electives – a literature review. Journal of Academic Medicine. 2013;(88)11:1778-81
ON SITE SUPERVISOR	
NAME:	Professor Stephen Okeyo
	Kisumu, Kenya



UNIVERSITY OF TORONTO
FACULTY OF MEDICINE



Medical Alumni Association
 University of Toronto



Comprehensive Research
Experience for Medical Students

LOCATION OF PLACEMENT:	
EMAIL:	okeyo2012@gmail.com
AREA OF RESEARCH:	Public Health

PART B: PROJECT INFORMATION

PROJECT TITLE:

From theory to practice: Assessing readiness of Kenyan community health workers to tackle non-communicable diseases.

PROJECT/PROGRAM/INSTITUTION BACKGROUND INFORMATION (MAX 500 WORDS):

The Kenyan Ministry of Health (MoH) has developed a curriculum for training community health workers (CHWs) on the prevention and control of non-communicable diseases (NCDs). This curriculum has been distributed to CHWs nation-wide, but its implementation from theory to practice is yet to be tested. The students will evaluate different aspects of CHWs’ readiness to take on and spearhead the NCD awareness, prevention and control programs upon their completion of the NCD training curriculum within Kisumu County, Kenya. There is also interest to assess CHWs’ capacity to screen, in a single individual, more than one NCD clinical risk factor (blood pressure, blood sugar, blood lipids, and Body Mass Index).

Professor Okeyo, a Kenyan Gynecologist / Obstetrician and Chair of SNAR Foundation for Advancing Community Health (SNAR), will directly supervise the students. As well, Dr. William Cherniak, Chair of Bridge to Health Medical and Dental (BTH) will be the supervising UofT Faculty Member. Dr. Mike Silverman, who is a BTH board member, an Assistant Professor in the UofT’s Dalla Lana School of Public Health’s Clinical Public Health Division, and who has supervised MAA-CREMS students in the past, will also provide regular feedback on students’ progress. This project will be in collaboration with the Tropical Institute of Community Health and Development in Africa (TICH).

SNAR is incorporated in Maryland, USA as a not-for-profit organization and was cofounded by a couple from Kisumu, Kenya. SNAR is on the ground in Kisumu County and focuses on advancing community-level prevention and control of NCDs, including



UNIVERSITY OF TORONTO FACULTY OF MEDICINE



Medical Alumni Association
University of Toronto



**Comprehensive Research
Experience for Medical Students**

public health education and training in the region. BTH is Toronto-based registered Canadian charity that works with local governments and partners in rural under-served regions of the world to provide education and training for healthcare providers and patients, and to create innovative solutions to complex problems. TICH is a research and training institute in Kisumu.

STUDENT ROLES/RESPONSIBILITIES (PLEASE BE AS SPECIFIC AS POSSIBLE):

The students will design the research study, which will consist of an observational aspect, and three surveys in Kisumu County. The first survey will assess CHWs' understanding of the MoH curriculum material and their confidence to use this knowledge in practice. The second survey will assess CHWs' capacity to raise awareness and screen NCD clinical risk factors in a select community in Kisumu County. The third survey will assess levels of NCD awareness and satisfaction among community members who shall be educated by the CHWs.

The students will work very closely with Prof. Okeyo, faculty from TICH, as well as the members of the select local community where the program will be implemented. The students will conduct these surveys with the help of a translator if necessary. They will compile and analyze resulting data and complete a write up for publication. This information will inform the implementation of a community-based NCD prevention and control program led by SNAR and the Kisumu County Government. In addition, the data may be useful for both the National Government of Kenya, as well as the global health community.

- What, if any, second language is required for the student to successfully complete this project?

Only English is required.

- Is this project for 1 or 2 students to complete?

Two students.

- How long have you worked with the on-site supervisor and briefly describe your working partnership:

I have been working with Professor Okeyo for about a year through BTH. As above, BTH is partnered with SNAR as well as Africa Cancer Foundation (ACF) and the County Government of Kisumu. Together, we develop healthcare initiatives to benefit rural, underserved communities in Kisumu County, Kenya.



UNIVERSITY OF TORONTO FACULTY OF MEDICINE



Medical Alumni Association
University of Toronto



**Comprehensive Research
Experience for Medical Students**

Specifically, in 2018 and 2019 our coalition launched comprehensive healthcare outreach clinics to three rural sub-counties across Kisumu, staffed by local and international healthcare professionals. We offer training for local healthcare providers and students, and public health education for the communities we visit. As well, we are working with ACF to upgrade their cervical cancer see-and-treat training program for local healthcare providers and are in the data collection stage of a number of different research programs, including a needs assessment on the health profile of the County, and a study on the prevalence of, and knowledge surrounding, diabetes and hypertension.

- Have you visited the city/town where the student will be placed? If yes, when was your last visit?

Yes, I led the BTH team that worked with our partners on the healthcare outreaches in 2018 and 2019. My last visit was in February 2019 where our team of more than 100 local and international healthcare providers gave education and training to more than 50 and healthcare access to more than 3,000 patients.

- If human subjects are involved, has Ethics been obtained (note: written proof or an email indicating protocol approval may be requested prior to the student's arrival at the on-site location)?

This project will be an observational and survey study of community healthcare workers and community members, and will not involve human subjects.