



# GLOBAL HEALTH RESEARCH AT THE CENTRE ON POPULATION DYNAMICS (CPD)

## About the Centre

The CPD is a multidisciplinary centre of 38 researchers and 46 graduate trainees, graduate students, and post-doctoral fellows. Representing both health and social science disciplines, Centre members share common research interests in pursuing population level research through the use of advanced statistical methods and life course perspectives. Over a third of its members investigate global health-related research, primarily in areas related to the social and economic determinants of health (SEDH).

### Centre website:

<http://www.mcgill.ca/popcentre/>

Global Health Training Graduate students interested in population topics and methods related to global health can pursue a graduate option in Population Dynamics through master's programs (Economics, Public Health, or Sociology) or doctoral programs (Epidemiology or Sociology).

1 Blood pressure measurements taken from study participant. (Photo credit: Sierra Clark)  
Project: Understanding the links between household energy, air pollution, and cardiovascular disease in China. PI: Jill Baumgartner

## GLOBAL HEALTH RESEARCH AT CPD

CPD researchers and their students are conducting research in low and medium-income countries across the globe on a broad range of population health topics including child and youth well-being, mental health, perinatal health, health systems and services, and social and economic determinants of health.

- **The impact of affordable, high quality day care on the health and well-being of women and children in Nairobi slums.** Together with colleagues and the African Population Health and Research Center (APHRC), Shelley Clark is leading a project with Sonia Laszlo, Sarah Brauner-Otto, and Franque Grimard in a Nairobi slum community to study the impact of a daycare intervention on several indicators of mother and child health and well-being.
- **Identifying evidence-based interventions to improve population health and promote equity for women and children.** Arijit Nandi leads a series of studies with Sam Harper, Jay Kaufman, Erin Strumpf and other colleagues to carefully investigate the impact of public policies on the health-related targets set forth by the United Nations Sustainable Development Goals (SDGs), which include reducing maternal mortality, ending preventable child deaths, eradicating major communicable diseases, and mitigating premature mortality due to non-communicable diseases.
- **Micro-health insurance take-up among the poor in Kenya.** Matthieu Chemin and his colleagues at the ELIMU Impact Evaluation Centre investigate why many low income, small scale farmers do not have health insurance, how affordable health insurance can reach those who may benefit most from it, and what are the impacts of health insurance for those who chose to purchase it.
- **Understanding the links between household energy, air pollution, and cardiovascular disease in China.** Jill Baumgartner leads studies in four provinces of China that investigate whether air pollution from high-pollution wood or coal stoves impacts the cardiovascular system, and if use of less-polluting stoves reduces the risk of cardiovascular disease.
- **Interrupting the spread of tuberculosis (TB), Peru.** This study, conducted by Jay Kaufman and colleagues, is evaluating cost-effectiveness of the Home Visitation Program, an active case detection program which has been implemented in one of the district with the highest TB incidence in Lima, Peru to improve early TB detection rates.



## GLOBAL HEALTH RESEARCH AT CPD (cont'd)

- **Affordable day care to empower Indian women.** Arijit Nandi and Sam Harper together with colleagues at Seva Mandir and the Institute for Financial Management and Research, India, are studying the impacts of community-based daycare facilities on mental health, empowerment, and economic opportunities among mothers in rural Rajasthan.
- **The perinatal health care needs of indigenous women in Quebec.** Zoua Vang is exploring the impact of medical evacuation on perinatal depression and infant health outcomes among indigenous women (Cree and Inuit) in Québec for whom French is not their mother tongue or second language.
- **Health, wellbeing, and kinship support for children of single mothers in Nairobi slums.** Shelley Clark and colleagues are investigating the impact of kinship support for the health and well-being of low-income, single mothers living in a Nairobi slum community as well as the health and cognitive development of their children.
- **Long-term effects of civil conflict on women's health outcomes in Peru.** Sonia Laszlo and Franque Grimard investigated the long-term health effects on women exposed to the Peru internal civil conflict from 1980 to 2000. They found that exposure in utero has long lasting impacts on a woman's height (an indicator of long-term health), even controlling for life-cycle factors and the availability of public health centers.
- **Family, women and child health and well-being in the Chitwan Valley, Nepal.** Sarah Brauner-Otto has worked extensively with the Chitwan Valley Family Study to investigate demographic, socio-economic and health research questions throughout the region's agricultural settlements and urban areas.
- **Nutrition, sexual health, and reproductive health for adolescent girls in Ghana.** Shelley Clark and colleagues at McGill University and in Ghana are assessing the impact of financial literacy and social capital interventions on nutritional status, and sexual & reproductive health for adolescent girls (9-13 years old) in Upper Manya Krobo District (UMKD) of Ghana.
- **Assessing perinatal health disparities among immigrant, aboriginal, and visible minority populations in Canada.** By linking socio-economic and ethno-cultural data with data describing pregnancy and birth outcomes, Seungmi Yang, Jay Kaufman, and colleagues (PI Michael Kramer) have developed a new, national database and will assess perinatal health for immigrants, visible minorities, and aboriginal peoples across Canada.

## Global Health Researchers at the CPD

### Demography & Sociology:

family demography, fertility, perinatal health, child development, adolescent girls, aboriginal health, social and economic determinants of health

- Sarah Brauner-Otto
- Shelley Clark
- Zoua Vang

**Economics:** development economics and social and economic determinants of health

- Matthieu Chemin
- Franque Grimard
- Sonia Laszlo

**Epidemiology:** environmental epidemiology, aboriginal health, health disparities, policy effects on health and social and economic determinants of health

- Jill Baumgartner
- Sam Harper
- Jay Kaufman
- Arijit Nandi
- Amélie Quesnel-Vallée
- Erin Strumpf
- Seungmi Yang

## WHERE WE WORK

Canada, China, Ghana, Kenya, India, Nepal, Peru, South Africa



2 A mother presents photos describing childcare issues in her community. (Photo credit: APHRC) Project: The impact of affordable, high quality daycare on the health and well-being of women and children in Nairobi slums. PI: Shelley Clark