Rethinking the Impact of Globalization on Healthcare: a Public Health Perspective
7th Annual Conference

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Dear Conference Participants,

Welcome to the Swedish Network of International Health (SNIH) 7th Annual conference! On behalf of the SNIH Board members of year 2020 and SNIH volunteers who have worked tirelessly to make this conference a reality, we are thrilled that you have chosen to join us.

SNIH is a student-led non-governmental organization with active members from 5 top Swedish universities, that facilitates interaction between its members and provides tools for their professional and personal development. One of our main activities is organizing our annual conference. Each year one of the member universities host the annual conference, however due to the current COVID-19 situation, we have decided to host this year’s meeting via an online platform instead of the spectacular Aula Medica at Karolinska Institute.

This year’s conference line-up includes keynotes speakers who will discuss Digitalization, Migrant Health, and Health Economics. Naturally, each subtopic will be discussed in light of the overarching theme of Globalization.

We hope you enjoy the sessions and discussions.

Thank you again for joining us! Enjoy the conference!

Hager Saleh
SNIH Chairperson
Health Informatics Joint Master Program, Karolinska Institute

Rachel Irwin, Researcher at Lund University, she is an anthropologist whose research focuses on health policy, particularly at a global level. Her current project is on the history of Sweden’s engagement in global health and development.

Economic thinking in global health: a quick history
Abstract: This session briefly looks at historical changes in how life is valued, and how the relationship between health and the economy has changed over the past century. It also addresses how colonial, post-colonial and neoliberal ideologies have contributed to the shift from international to global health.

Jesper Sundewall is an associate professor of health economics at University of KwaZulu-Natal and Researcher at Lund University. His research is focused on health financing and health system challenges in low- and middle-income countries.

Relativize and prioritize: grocery shopping as a means to understand health financing challenges in resource poor settings
Abstract: In this lecture I use the terms relativize and prioritize to illustrate and discuss the complex undertaking of optimizing use of resources for health. In health care, like all other sectors, resources are finite. At any given point in time we need to prioritize how to spend these resources in the best possible way. In low- and middle-income countries the discussion on how to use the much more limited resources is often more present and more well thought through. Prioritizing resources is a complex undertaking which must consider the context, the actors involved and the processes around reaching agreed priorities - but experiences from my own grocery shopping can serve as a useful example. And perhaps give myself painful insights into my own eating habits?
Dr. Manuel Gonzalez-Carcia is a practicing senior cardiologist and family practice physician, employed as Senior Consultant at the Heart Centre, Norrland’s University Hospital, in Sweden. Over the course of his career, Dr. Gonzalez's activity has focused on the use of telemedicine and the application of mobile technology to deliver cost-effective care for chronic heart disease’s patients and the practical integration of telemedicine in daily health care activities, especially in Cardiac Rehab programs.

Manuel holds a postdoctoral degree in e-health and Chronic Disease Management at the Commonwealth Scientific and Industrial Scientific Organization (CSIRO, 2017-2019), and an honorary lector position at the University of Queensland (UQ), Australia. He also keeps a senior digital medical consultant position at CSIRO, in regard to the current actions that this organization is deploying in the European region. In addition, Manuel is currently working as a practitioner digital doctor in “usual care”, and is involved in several development and research projects, both in Sweden and internationally.

Implementation of Digital Health in a global context
The lecture will provide a general overview about the implementation of digital health in a global context: the Why, the What and the How. Opportunities and current challenges for the implementation of digital health in clinical practice will be discussed.

Panagiotis Papapetrou is Professor at the Dept. of Computer and Systems Sciences at SU, with a PhD in Computer Science from Boston University. His area of expertise is algorithmic data mining with focus on temporal data mining and particular emphasis on healthcare data. He is currently PI for two related national projects. He is Action Editor of the Data Mining Knowledge Discovery (DMKD) journal, and Guest Editor of the DMKD special issue on Mining for Health and the special issue on Big Data in Epidemics for the Big Data Research journal.

AI for Healthcare: making Machine Learning models explainable to healthcare practitioners
Abstract: The first part of the talk will tackle the issue of interpretability and explainability of opaque machine learning models, with focus on time series classification. Time series classification has received great attention over the past decade with a wide range of methods focusing on predictive performance by exploiting various types of temporal features. Nonetheless, little emphasis has been placed on interpretability and explainability. This talk will formulate the novel problem of explainable time series tweaking, where, given a time series and an opaque classifier that provides a particular classification decision for the time series, the objective is to find the minimum number of changes to be performed to the given time series so that the classifier changes its decision to another class. Moreover, it will be shown that the problem is NP-hard. Two instantiations of the problem will be presented. The classifier under investigation will be the random shapelet forest classifier. Moreover, two algorithmic solutions for the two problem instantiations will be presented along with simple optimizations, as well as a baseline solution using the nearest neighbor classifier. The second part of the talk will focus on temporal predictive models and methods for learning from sparse Electronic Health Records. The main application area is the detection of adverse drug events by exploiting temporal features and applying different levels of abstraction, without compromising predictive performance in terms of AUC.
Mazen Baroudi candidate at the Department of Epidemiology and Global Health in Umeå University. Current research focuses on migrant’s access to healthcare in Sweden. Area of interest: migration health, health system research and sexual and reproductive health.

Global migration and challenges in access to healthcare

Abstract: Around 3.5% of the world’s population are migrants and their proportion is steadily increasing. While most migrants are healthy at the time of migration, they have a higher tendency for ill health after resettlement. This is partially explained by their worse socioeconomic status and the lack of access to healthcare in the hosting countries. Several barriers for migrants’ access to healthcare are reported, of them, the lack of legal entitlement to care, unfamiliarity with the health system in the hosting country, language and cultural barriers and direct and indirect discrimination.

This presentation aims to explore migrants’ health determinants and present some of our research focusing on young migrants’ access to sexual and reproductive healthcare (SRHC) in Sweden. Young immigrants face difficulties in accessing SRHC services in Sweden. Around 30% of our participants needed SRHC, but only one-third of them were able to fulfil their needs with significant differences between various socioeconomic groups. The most commonly reported reasons for refraining from seeking SRHC were the lack of knowledge about the Swedish health system and the available services, long waiting times, language difficulties and not affording the costs of health care. At the same time young migrants perceived the health care services to be less youth-friendly, particularly regarding services’ equity, respect and quality.

Danielle Agnello, GHMe is an online, global non-profit organization that provides a free, online mentorship program which facilitates communication between students and young professionals (SYPs) and experienced global health professionals (Mentors). Our vision is to make mentoring more visible at the individual, national and global levels; and to provide equitable access to mentoring. Our mission is to create and nurture mutually beneficial SYP and Mentor working relationships through active facilitation, knowledge exchange and promotion of international networking. You can see more about us here: [https://www.ghmentorships.org/](https://www.ghmentorships.org/)

Danielle Agnello, the Executive Director, Global Health Mentorships & Consultant,
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