eHealth: Information and Communication Technology in Health
August 29-31, 2016

1. Profile of facilitators

Name and title:	1. Martin Raab 2. Prof. Antoine Geissbuhler 3. Gonçalo Castro
Current position and affiliation:	1. Head of Health Technology and Telemedicine Unit, Swiss Centre for International Health, Swiss Tropical and Public Health Institute 2. Professor and Chair, Department of Radiology and Medical Informatics, University of Geneva Director, eHealth and Telemedicine, Geneva University Hospitals 3. Health Informatics Specialist, Swiss Centre for International Health, Swiss Tropical and Public Health Institute
Areas of interest:	eHealth, technology, health policy, health systems
Curriculum Vitae:	**Martin Raab,** MEng, MPH, is the Head of the Health Technology and Telemedicine Unit (HTTU) of the Swiss Centre for International Health at the Swiss Tropical and Public Health Institute. He has 20 years of international working experience in health systems development and capacity building in the Middle East and in various Eastern European countries. Currently he is the managing director of two large scale health programmes in the Ukraine and in Egypt. In both projects, he steers the implementation of information and communication technologies in the countries' health systems. Beside his managerial and consultancy activities he regularly lectures at various university programmes on health technology.

	Antoine Geissbuhler, MD, PhD, is Professor of Medicine, Chairman of the Department of Radiology and Medical Informatics at Geneva University and Director of the Division of eHealth and Telemedicine at Geneva University Hospitals. Author of more than 120 original scientific publications, his current research focuses on the development of innovative, knowledge-enabled information systems and computer-based tools for improving the quality, safety and efficiency of care processes. **Gonçalo Castro**, MEng, is Health Informatics Specialist at the Swiss Centre for International Health of the Swiss Tropical and Public Health Institute. He works as consultant in the field of eHealth, managing projects and providing advisory services on appropriate technologies for healthcare systems and health IT strategy, typically in resource-constrained settings in Europe and Africa/Middle East.

2. Course description

Objectives:	eHealth (the application of information and communication technology to health) plays a major role in health systems around the world nowadays, including in low and middle income countries. eHealth systems are increasingly applied to improve access and quality of health information, enhance healthcare processes, achieve better quality of care and improve patient outcomes. Despite all the potential, the many implications of eHealth (from the clinical, legal, technological or social points of view) often contribute to making initiatives in this domain complex and challenging. On the other hand, health systems are increasingly dependent on eHealth, despite the widely acknowledged gaps in the evidence-base behind it. That is why it is crucial nowadays that decision-makers in the health domain have a comprehensive understanding of eHealth – what it is, what are its benefits and limitations, what are the best practices, how can it be evaluated – so that interventions in the field can make the best use of technology to improve the health status of populations. The aim of the course is to enable students to: • Understand the implications, constraints and opportunities in the application of eHealth in a health system • Be able to influence and steer eHealth initiatives for maximal results • Be aware of international best practices and success factors in eHealth • Have the essential knowledge required to take managerial decisions related to eHealth

Content of the course:	• Basic eHealth concepts and definitions • Key eHealth applications (Health Information Systems , eLearning, Telemedicine) and how they can support healthcare delivery and management • eHealth building blocks within a health system • International trends and success factors in implementing eHealth systems • Expectations on benefits vs. evidence base, evaluation in eHealth • eHealth strategy and policy
Prerequisites:	Work experience in the healthcare sector desirable
Pedagogical method:	Lectures, reading, discussions, case study, group work and presentation

3. Detailed content and structure of course

Morning 11 am - 1 pm	Content	Method	Afternoon 2 pm – 5 pm	Content	Method
Monday	Introduction to eHealth	Lecture	Monday	eHealth systems and their potential, barriers and risks	Group exercise using eHealth software
Tuesday	Evaluation and benefit realisation in eHealth	Lecture	Tuesday	Case study – RAFT network	Group Case study analysis and discussion
Wednesday	eHealth building blocks within a health system	Lecture	Wednesday	Group work presentation Summary and conclusions; lessons learnt & success factors is eHealth	Group presentations and discussions

Monday: 29.8: Martin Raab / Gonçalo Castro

Tuesday: 30.8: Prof. Antoine Geissbuhler

Wednesday: 31.8: Martin Raab / Gonçalo Castro

4. Self study and assessment procedure

Self study:	Relevant publications for pre-reading will be provided
Assessment procedure:	*Group work presentation*