**Quantitative Medicine Forum**

**“Real-World Applications of GIS and Quantitative Epidemiology in Resuscitation Research”**

**Speaker:**
Dr. Comilla Sasson  
Assistant Professor  
Department of Emergency Medicine  
University of Colorado Health Sciences Center

**Host:**
A/Prof Arul Earnest  
Director and Associate Professor  
Centre for Quantitative Medicine  
Office of Clinical Sciences  
Duke-NUS Graduate Medical School

**Date:**
Thursday, 3 January 2013

**Time:**
12.30pm – 1.30pm

**Venue:**
Duke-NUS Graduate Medical School  
Singapore  
Amphitheatre, Level 2  
8, College Road, Singapore 169857

---

**Abstract:**

Geographic Information Systems (GIS) technology and quantitative spatial epidemiology is being used to identify communities that are at highest risk for OHCA, and have low bystander CPR rates, to create targeted CPR educational interventions based at the community level. Her current work uses the 40-city surveillance registry, CARES (Cardiac Arrest Registry to Enhance Survival). She is working directly with communities to create public health programs targeting high-opportunity areas to increase the provision of bystander CPR, and ultimately survival.

Core concepts that will be discussed are: GIS mapping, spatial clustering, point pattern analysis, temporal trends in cardiac arrest, and web-based spatial decision support systems.

**Biography:**

Comilla Sasson, MD, MS completed her Robert Wood Johnson (RWJ) Clinical Scholar Program Fellowship in 2010 and joined the Department of Emergency Medicine at the University of Colorado Health Sciences Center in July 2010 as an Assistant Professor. She is also a PhD Candidate in Health Services Research at the Colorado School of Public Health.

Dr. Sasson received her undergraduate and medical degree at the University of Illinois at Chicago, completed her residency training in emergency medicine at Emory University in Atlanta, Georgia and earned her Master’s of Science in Health and Health Services Research through the University of Michigan School of Public Health.

Dr. Sasson’s previous work has focused on creating evidence-based guidelines for prehospital providers, conducting qualitative research for implementing national evidence-based guidelines for prehospital providers and assessing temporal trends in survival for cardiac arrest over the last 30 years.

Please RSVP by 2 January 2013 to megan.pooh@duke-nus.edu.sg for our catering arrangement. Lunch will be served from 12.00pm onwards, outside the amphitheatre.

---

This forum is jointly organised by Duke-NUS (Centre for Quantitative Medicine), SingHealth (Office of Research) and SGH (Department of Emergency Medicine)