

FROM THE EDITOR

Summer 2013 slowly slips from us but not without leaving its memorable imprints. I hope that everyone took time to refresh and enjoy some summertime fun.

Over the past 6 months we have continued to build upon our strengths within the SimSinai Centre and create an atmosphere conducive to excellence in education. With this in mind

we have spruced the centre up with bright new paint and a new and improved A/V system, replacing the projector with an 80" high definition TV. Over the next few months we hope to have the carpet removed and replaced with more durable wood laminate flooring. We hope these upgrades create a better learning atmosphere for everyone.

Users of the SimSinai Centre continue to increase in both numbers and course variety. This splattered with research projects have added to our operational costs. In order to sustain fiscal responsibility we have now created a service price list that will be posted as well as available on line for review. As a reminder we request that all courses and research being booked at the SimSinai Centre

complete and submit a booking form in order that we can better prepare for your sessions. Upon completion of the booking form a cost estimate can be sent to you for consideration. If you are unsure of what training products we have to offer or how we could better meet your educational needs, please feel free to book a meeting with our staff to consult with you about your session!

In August 2013 we welcomed Professor Dr.

Amitai Ziv Deputy Director Sheba Medical Center Israel, Director Patient Safety and Risk Management, Founder and Director Israel Center for Medical Simulation (MSR) and Chairman of Medical Education Tel Aviv University. Dr. Ziv was our guest lecturer and educator at our inaugural Simuliscious event sponsored by SimSinai. Simulicious offered 3 half day "tasting" events demonstrating simulation within the context of hybrid, high fidelity and technical skill simulations.



The roots of education are bitter, but the fruit is sweet. Aristotle

Attendees from a wide variety of departments attended the event. The sessions were well evaluated and it is hoped that departments within Mount Sinai will embrace simulation into their training and patient safety initiatives. SimSinai supports a large cadre of experts in health care education and simulation and therefore looks forward to supporting the migration of simulation training into all levels of hospital departments.

As a reminder, all residents are eligible for support from the PGME office to cover costs for their initial ACLS course. However, any resident booked for a course that is a no show or sends late cancellation will lose their opportunity for financial coverage of the course. Please keep this in mind when choosing your course date.

Thank you to all of our staff for their continued support of the SimSinai Centre under the leadership of our Medical Director Dr. Sev Perelman. We look forward to another exciting season of medical education ahead.

CONGRATULATIONS DR. MIKE WANSBROUGH!



Everyone here at the SimSinai Centre would like to extend our congratulations to Dr. Mike Wansbrough on receiving the Anna Jarvis Award for teaching excellence in postgraduate education in emergency medicine for his work on simulation curriculum for the CCFP (EM) training program. We asked Dr. Wansbrough to write a little about himself and his past experience to share with our readers:

My interest in medical simulation began while working with the Canadian Network for International Surgery (CNIS.CA) as both a director. and active in field work developing curricula in injury prevention and management and in maternal health using very low fidelity simulation in east Africa. Our first initiative in 1994 was in developing an Essential Surgical Skills (ESS) course for the medical students in Jimma, Ethiopia using uncooperative goats and non-animal models. This program caught fire and is now taught in 10 countries and has trained 7,500 health care practitioners. Capacity building is a core element of development work and the model of 'train the trainer' has allowed the program to be self sufficient in many of these countries. A dozen other simulation based programs have been developed in addition to the ESS including a Trauma Team Training program and programs in maternal health and safety, training over 20,000 in all programs. In 1996 we established the first sub-Saharan Trauma Registry in Kampala, Uganda which continues to work on injury prevention. I continue to work with the CNIS in developing, evaluating and expanding programs.

My interest in international health led to completing a diploma in Tropical Medicine and Hygiene at the London School of Tropical Medicine and Hygiene.as well as a MSc in Communicable Diseases Epidemiology. After working for the LSHTM in The Gambia on vaccination research, I missed clinical medicine and returned to Canada for a fellowship in Emergency Medicine at the University of Toronto. Simulation returned to my life after joining Ontario's disaster response team, the Emergency Medical Assistance Team (EMAT). Through EMAT, I have been exposed to the complexities of simulated exercises involving the military, fire, EMS and other health care teams. These experiences with the CNIS and EMAT drew me to the power of simulation as an educational tool. At Mount Sinai, I have continued with this mission and along with Dr. Sev Perelman and the amazing staff of the SimSinai Centre we developed the CCFP (EM) Fellowship Simulation program. Using high-fidelity simulation, we have

trained 8 years of EM fellows in areas where traditional teaching falls short-leadership, communication, situational awareness, collaboration procedural skills, decision making, and task management. Drs Howard Ovens and Shirley Lee have been instrumental in developing our capacity- sending Sev and myself to a week-long workshop on Simulation Instruction in Healthcare at the Center for Medical Simulation at Harvard/MIT. When I am not teaching in the SimSinai Centre, I am on staff as an emergency physician at Mount Sinai Hospital. I also enjoy being a co-post graduate education coordinator at MSH where we have a very busy academic environment. When I am not at Mount Sinai, I work as a Transport Physician for Ontario's air ambulance service, ORNGE, and teach at the ORNGE Academy of Transport Medicine where we also use simulation as part of evaluating and certifying medics. I believe that being awarded the Anna Jarvis Award for Excellence in Emergency Medicine Teaching reflects on the value that the residents have placed on using simulation as a tool to round out their educational experience. As one incoming resident said at the welcome dinner this year "the Simulation program played a major role in my decision to choose U of T over other programs." I am proud to be a part of this team!



WELCOME NEW INSTRUCTORS!

We recently had a new wave of instructors join the SimSinai Centre within the past couple months. Most of them have gone through our ACLS Instructors course that took place May 27-28, 2013. We would like to welcome Dr. Sheena Taylor, Dr. Emily Austin, Dr. Paul Koblic, Dr. Jefferson Clivatti, Dr. Pablo Perez D'Empaire, Dr. Michael Misch, Pamela Twiselton, Paramedic and Amanda Clarke, RN. We welcome you all!

WHAT'S HAPPENING

Over the past couple months we have been busy with various types of simulation courses in the centre:

- Year 3 Undergraduate Emergency Medicine Clerkship - Airway Session
- Canadian College of Family Physicians (Emergency Medicine) (CCFP (EM))
- Supplemental Emergency Medicine Experience (SEME)
- Research (Dr. You-Ten)
- ICUniversity
- Mount Sinai Hospital Emergency Department Nursing ER Skills Day
- Year 2 Physician Assistant Course Trauma (Dr. Zaka Khan)
- Post Graduate Year 1 General Internal Medicine Resuscitation Training
- PREP Camp Mini ACLS

BON VOYAGE

We would like to wish our Medical Director Dr. Sev Perelman along with Anesthesiologist Dr. Eric You-Ten, the best of luck as they travel abroad to present abstracts at two different conferences. Dr. Perelman will be presenting at the ROSOMED in Moscow, an all Russian public organization "Russian Society for Simulation Education in Medicine" September 26-27. Dr. You-Ten will be heading to Shanghai, China to present at the APMSH – Asia Pacific Meeting on Simulation in Healthcare.



RESEARCH SPOTLIGHT

Dr. Luke Devine attended SESAM - 19th Annual Meeting of Society in Europe for Simulation Applied to Medicine, in Paris, France.He presented an e poster "Simulation-Based Directed Self-Regulated Learning vs. Instructor Regulated Learning of Advanced Cardiac Life Support (ACLS) Skills -A Randomized Trial" Luke Devine (University of Toronto, Medicine, 600 University Ave, Suite 427, Toronto M5G 1X5, Canada), Jeroen Donkers (Maastricht University, Education Development and Research, Maastricht, Netherlands), Rodrigo Cavalcanti (University of Toronto, Department of Medicine, Toronto, Canada), Vsevolod Perelman (University of Toronto, Department of Family and Community Medicine/Emergency Medicine, Toronto, Canada), Ryan Brydges (University of Toronto, The Wilson Centre, Toronto, Canada), S. Barry Issenberg (University of Miami, Gordon Center for Research in Medical Education, Miami, United States)

Background: Simulation-based mastery learning of ACLS skills is effective. Traditional ACLS courses incorporate instructor regulated learning (IRL). Directed selfregulated learning (DSRL), where an educator designs the self-regulated learning, may provide an effective and less resource intensive way to teach ACLS skills.

Summary of work: Forty first-year internal medicine residents at the University of Toronto participated in a randomized trial comparing simulation-based DSRL to IRL of ACLS skills, using a mastery learning model. The DSRL group was provided simulation scenarios, assessment instruments, instructions to conduct a focused debriefing and access to relevant resources to direct their own learning. The IRL group had access to the same materials, but the teaching and feedback provided was at the discretion of the instructor.

Summary of results: After controlling for pre-test scores of performance on a simulated ACLS scenario, there was no

significant difference between post-test scores in the DSRL and IRL groups, F(1,37) = 0.007, p = .935.

Residents in the DSRL group were significantly more likely to express a desire to train in the IRL group than the converse (p = .001). Both groups agreed that participation within their assigned group was an effective way to learn ACLS skills, however, residents in the IRL group more strongly agreed with this (p = .016).

Conclusions: DSRL is as effective as IRL in teaching residents ACLS skills. Despite the benefits associated with DSRL, residents prefer to learn in an IRL environment.

Take-home messages: DSRL is effective for learning ACLS skills. Research is needed to understand why residents are resistant to DSRL and how to increase acceptance.



SIMULICIOUS

During the last weeks in August, over 50 Mount Sinai inter-professional staff from across the hospital participated in a thought provoking educational "Simuliscious" event in the area simulation sponsored by SimSinai. During this event Dr. Amitai Ziv, a visiting professor and world-renowned expert in the field of simulation shared his expertise with those in attendance. During the course of four sessions staff had the opportunity to get a "taste" of how to use simulation in the areas of staff education, implementation of best practices, and patient safety initiatives. The event was an overall success, evaluations included *"that simulation is a modality for addressing safety of patient care and also creates a safe environment for making errors"*. As a result of this educational series the word is out, beyond Medicine in the organization, as to the importance of simulation to active learning and the usefulness of this modality across clinical areas.

ACLS PRICING AND DATES

CERTIFICATION	
Physicians/Dentists/IMGs	\$490
RN/Fellows/Paramedics/Residents/Students	\$375
RE-CERTIFICATION	
Physicians/Dentists/IMGs	\$450
RN/Fellows/Paramedics/Residents/Students	\$325

CERTIFICATION	
September 5-6, 2013	Thur/Fri
September 28-29, 2013	Weekend
October 3-4, 2013	Thur/Fri
October 19-20, 2013	Weekend
November 11-12, 2013	Mon/Tues
November 16-17, 2013	Weekend
December 9-10, 2013	Mon/Tues
December 14-15, 2013	Weekend

RE-CERTIFICATION	
September 13, 2013	Fri
October 11, 2013	Fri
November 29, 2013	Fri

SIMSINAI CENTRE PRICING

\$175 PER HOUR

- Includes basic technician set up fees
- AV Equipment
- Use of Laerdal SimMan (up to 3)
- Inclusive for hours: M F 0700 1700 hrs
- Disposable gloves
- Individual Personal Protective Equipment

\$375 PER HOUR Industry rate plus \$100 per person fee

\$57 PER HOUR Technician OT rate weekends / before 0700 hrs and after 1700 hrs

\$25 PER Simulation Moulage – for any extensive make up treatments including products used

Video transfers, editing or filming available upon request - pricing subject to request type Equipment rentals available on request – pricing subject to request type

Line Insertion Kit	\$25.69
Line Insertion Kits with Sterile Draping Set Up	\$33.35
Catheter trays with Foley and drainage bag	\$8.00
Airway heads including regular and specialized intubation equipment	\$35.00
Pig trachea with silicone skin	\$30.00
Sterile Gowns and Gloves	\$8.00
IO Kit usage	\$50.00
Cricothyrotomy Kit	\$23.10
Bronchoscopy Station including model, scope and video tower	\$24.20
Central Line Insertion Pad - NEW	\$487.00
Central Line Insertion Pad - USED	\$50.00
Blue phantom ultrasound pads	\$8.00
Cric Skin for SimMan model	\$38.00
Chest Tube Skin for Sim- Man model	\$95.00
Melker Cric Kit new	\$210.00
Melker Cric Kit used (if available)	\$55.00
Simulated Drug Packages	\$25.00

HST NOT included

Further simulation models and supplies along with pricing available upon request.

NOTE: All bookings require a completed SimSinai booking form in order to ensure we have all requested items available and set up for you. Estimates are available upon request in conjunction with a completed booking form.

Sessions cancelled with less than 72 hours notice will be subject to a cancelation fee of 50% of the total amount of the estimated course cost.