

Joining the Ranks: Mannequins and the Inside Story

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May 29, 2018

CME Disclosure

- Ghazwan Altabbaa is a physician at Alberta Health Services and Faculty member at University of Calgary.
- Dione Kolodka is a staff at Infection Prevention Control at Alberta Health Service.
- No financial disclosures for both.

Project Team

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Agenda

What is simulation?

How does simulation look like for Infection Control?

IPC and Medical Education

Our story & their story: Mannequins reporting

Healthcare providers joining the conversation

What is next?

What is simulation

The technique of imitating the behaviour of some situation or process by means of a suitably analogous situation or apparatus, especially for the purpose of study or personal training.

Some definitions

- · Fidelity refers to the accuracy with which the simulation and/or simulation device imitates reality.
- High, Medium, Low: high would be full body mannequin with physiologic modelling and low would be basic CPR manikin.
- Task trainers: devices designated to provide experiences in specific skills or simulation (e.g. airway management).
- Full-body simulator: electromechanical outfitted manikin of varying fidelity.
- VR: computer-generated representation of a physical entity (e.g. bronchoscopy)
- Haptic: physical feedback of device.
- Immersive environment: full-scale simulation by physical devices alone or in combination with VR to recreate a health-care setting.
- Debriefing: reflective post-scenario discussion of key activities, events and principles from experience.

Some history

- First introduced in 1960's in anaesthesia, then expanded to other medical specialties. Dr. Stephen Abrahamson at USC.
- Especially in the 1990's widespread: ability of simulation to provide a unique procedural and cognitive training platform
 and train repetitively on complex tasks where mistakes become powerful learning vehicles rather than negative outcomes
 at bedside.
- The old axiom of see one, do one, teach one (practising on patients) may no longer be appropriate given concern with patient safety.
- · Now it is expected that trigness have some basic competencies before and during learning with actual patients.
- This applies to all levels of education from UME to PGME and CME.
- More ingrained in medical education given move towards development and demonstration of learner competencies.
- Identified as a high research priority in medical education.
- At the regulatory level, simulation is allowed to meet the minimum quotas for procedures, situations, and management challenges.
- American board of anasthesiology has mandated simulation as part of its maintenance of certification program since 2000.
- It's category 3 in our MOC according to RC.
- It is likely that simulation will play an increasing role in recertification activities.

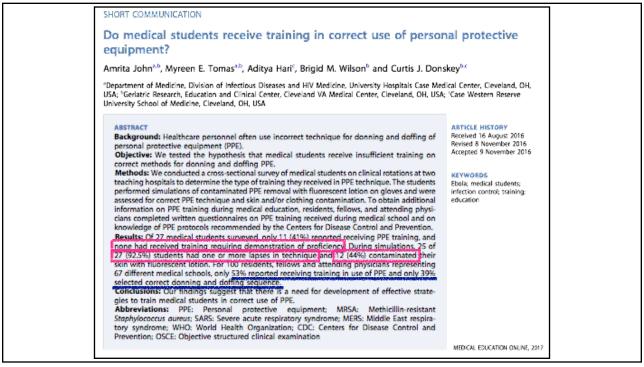
Video 1

• This is a sample video of a simulation based activity.

Video 2
 This is a sample video of a simulation based activity that has an IPC learning objective.

IPC and Medical Education

How much do medical students know about infection control? C.M. Mann a.*, A. Wood b Survey of teaching/learning of healthcare-associated infections in UK and Irish medical schools D. O'Brien a.b., J. Richards c, K.E. Walton d, M.G.A. Phillips e, H. Humphreys a.b.* Brief Report Knowledge, source of information, and perception of Portuguese medical students and junior doctors of infection control precautions David Peres MD, MPH A*, Milton Severo PhD back, Maria Amélia Ferreira MD, PhD back, Maria Mari



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Original Investigation

Contamination of Health Care Personnel During Removal of Personal Protective Equipment

Myreen E. Tomas, MD: Sirisha Kundrapu, MD: Priyaleela Thota, MD: Venkata C. K. Sunkesula, MD:
Jennifer L. Cadhum, B5: Thriveen Sankar Chittoor Mana, M5: Annette Jencson, B5, CIC: Marguerite O'Donnell, RN:
Trina F. Zabarsky, RN; Michelle T, Hecker, MD: Amy J, Ray, MD: Brigid M, Wilson, PhD: Curitis J, Conskey, MD

A method for evaluating health care workers' personal protective equipment technique

Elizabeh L. Beam, MSN, RN, *Shawn G. Gibbs, PhD, CHI, *Stathleen C. Boulter, BA, RN, *Marcia E. Beckerdite, MSN, RN, CIC, *Orable, W. Smith, MD*
Orabla, Nebraska

[Am J Infect Control 2011;39:415-26.]

Most HCWs not very good at donning and doffing PPE with high rates of skin/clothing contamination

Our story & their story: Mannequins reporting

 Here we would like to review some of the observations from our Internal Medicine Residency Program

Healthcare providers joining the conversation

• Here we would like to review some of the results in conversations with front line healthcare providers.

What is next?	
 Discuss some of the action steps applied at this time in residency program. 	

Discussion



	www.webbertraining.com/schedulep1.php
June 13, 2018	(South Pacific Teleclass) INVOLVING PATIENTS IN UNDERSTANDING HOSPITAL INFECTION PREVENTION AND CONTROL USING VIDEO-REFLEXIVE METHODS Speaker: Dr. Mary Wyer, University of Sydney, Australia
June 21, 2018	(FREE Teleclass) THE FUTURE OF INFECTION CONTROL – BRIGHT OR BLEAK? Speaker: Martin Kiernan, University of West London
July 17, 2018	(FREE European Teleclass) HOSPITAL INFECTION CONTROL FROM A DEVELOPING COUNTRY'S PERSPECTIVE Speaker: Dr. Aamer Ikram, Director, National Institute of Health, Islamabad, Pakistan
July 19, 2018	FLOOD REMEDIATION IN HEALTHCARE FACILITIES – INFECTION CONTROL IMPLICATIONS Speaker: Andrew Streifel, University of Minnesota

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