Innovative Models of Education: Using Technology Appropriately in Medical Education

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IOM ROUNDTABLE

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Hashtag: #IOMGenomics
Disclosure

• I report no conflicts of interest, and have nothing to disclose

• I do NOT receive any financial remuneration from any app, device, technology or pharmaceutical industry company, specifically any mentioned today

• I am interested in emerging technology for myself, my learners, and patients for the purpose of improving education & patient care
Learning Objectives

After participating in this session, you should be able to:

• Balance health care professionals’ (HCPs) use of technology at the bedside with human connection necessary for therapeutic patient-HCP relationship

• Elucidate different methods for effectively utilizing technology in medical education

• Consider how emerging technology can drive physician and HCP education
Technology in Medical Education

- This presentation: follow on Twitter right now
- Watching webinar on mobile device

- Workshop to doctors on how to use LinkedIn
- Audience Response Systems
Social Media for Medical Educators

- Identify and reflect on one’s digital identity
- Observe and establish comfort first; “Think, then contribute”
- Use social media to disseminate evidence-based health information
- Apply social media guidelines
- Tap into power of community

Social Media and Journal Club

• *Annals of Emergency Medicine* hosted an asynchronous global Emerg Med journal club on a blog

• Comments moderated on the blog and Twitter
Twitter at Conferences

- Great to create a “back-channel”
- Highlight important aspects of meeting
- Can be done as part of a formal presentation


GR Tweeted March – August 2012

- 17 presentations
  - Education
  - Clinical
  - Research
  - QI/PS
  - Advocacy

- 613 Tweets
- 61 separate participants

Djuricich AM. Grand Rounds in Medical Education: Tweet Away! Med2.0 Conf, Boston, MA. 9-2012.
Balance of Technology
First LR. The gateway to journal improvements. *Pediatrics* 2014;133(1):139-40.
• 60% of users access journal on device
• Full text mobile app
• Online version is now “official” version
• Journal is more active on social media, through Facebook and Twitter
• Editor is tweeting: @lewis_first
• Connection between two parties can be compromised by technology

Pediatrics and the Lure of Technology

Ellen F. Crain, MD, PhD

Received 19 September 2013; accepted 19 September 2013.

• “Technology itself is no panacea ... some fear that [learners] may be losing sight of humanism in medicine.”

• “Clinician-Educators must model the effective use of technology such that it ultimately strengthens the patient-doctor relationship ...”
The Cost of Technology


#IOMGenomics
UC-Irvine iMedEd Initiative - Etiquette

UC – Irvine Mobile Etiquette Checklist
http://www.imeded.uci.edu/docs/MobileTechnologyEtiquette.pdf
Audience Response Systems

• Classroom Engagement
• Learning Improves
• Assessment Improves

Mobile Health Tech in Med Education

- Training programs and med schools should integrate technologies into curricula
- Apps and devices should NOT replace, but AUGMENT acquisition of clinical skills

Hype Cycle – Emerging Tech 2014

How to evaluate apps

http://www.imedicalapps.com/
http://www.happtique.com/
Summary

• Effective Use of Technology
  – “as adjunct to”
  – NOT “in place of”

• Tech has potential to increase engagement

• Use tech to advocate and meet learners where they are

• #meded Twitter chat: Thurs 9-10 pm EST