Innovative Models of Education: Using Technology Appropriately in Medical Education

Alexander M. Djuricich, MD

Associate Dean for CME Program Director, MedPeds Residency Assoc. Professor of Clinical Medicine & Pediatrics Indiana University School of Medicine

IOM ROUNDTABLE

Twitter: @MedPedsDoctor

Email: adjurici@iu.edu

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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

Use tech as tool to teach meded content Teach tech content to meded learners

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

Riley Hospital for Children Indiana University Health

Audience Response Systems_

Workshop to doctors

on how to use LinkedIn

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 evidencebased 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



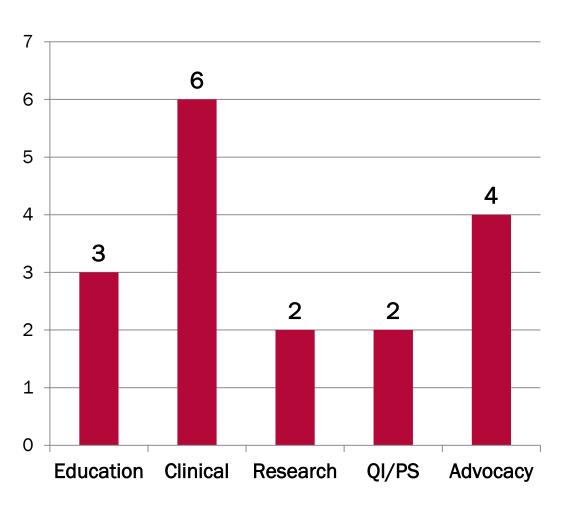
Twitter at Conferences

- Great to create a "back-channel"
- Highlight important aspects of meeting
- Can be done as part of a formal presentation
 - -Desai T. Tweeting the meeting: an in-depth analysis of Twitter activity at Kidney Week 2011. *PLoS One* 2012;7(7):e40253.
 - -Chaudhry A. Trends in twitter use by physicians at the ASCO meeting, 2010 & 2011. J Oncol Pract 2012;8(3):173-8.
 - -Matta R. The dramatic rise of social media in urology. J Urol 2014 Aug; 192(2):494-8.
 - -Neill A. The impact of social media on a major international Emergency Medicine conference. *Emerg Med J* 2014;31(5):401-4.
 - -Logghe H. Twitter usage at Clinical Congress rises markedly over two years. Bull Am Coll Surg 2013;98(2):22-4.





GR Tweeted March – August 2012

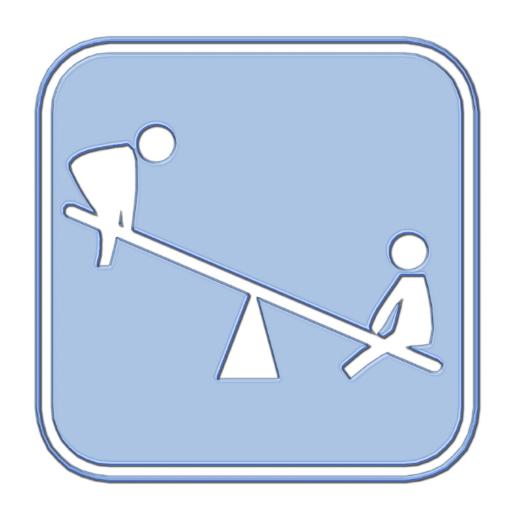


- 17 presentations
 - Education
 - Clinical
 - Research
 - QI/PS
 - Advocacy
- **613** Tweets
- 61 separate participants





Balance of Technology







Pediatrics 2014

PEDIATRICS 65

OFFICIAL JOURNAL OF THE AMERICAN ACADEMY OF PEDIATRICS

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Commentary

The Gateway to Journal Improvements

Lewis R. First, MD, MS^a, Alex R. Kemper, MD, MPH, MS^b, Kate Larson, MPH^c, and Joseph Puskarz^c

+ Author Affiliations

Key Words:

medical journalism
 social media
 peer review

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Published online December 30, 2013 PEDIATRICS Vol. 133 No. 1 January 1, 2014 pp. 129 –130 (doi: 10.1542/peds.2013-3458)

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Pediatrics 2014

- 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





Caution – Academic Pediatrics 2014

 Connection between two parties can be compromised by technology



Crain E. Pediatrics and the lure of technology. Acad Pediatr 2014;14(1):4-7.

More Caution

- "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

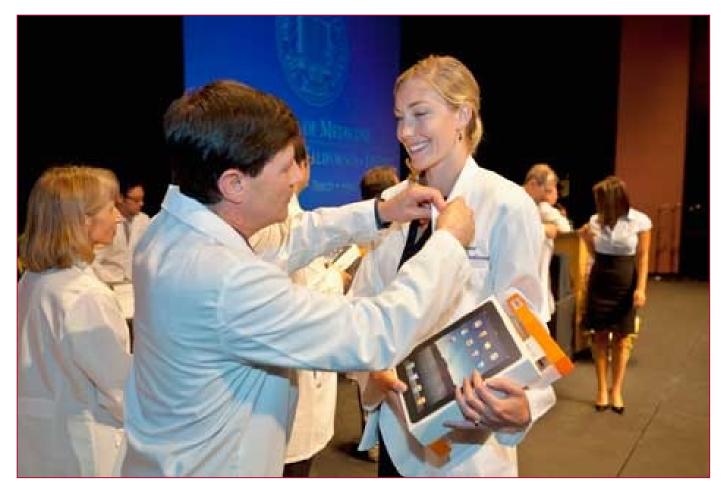








UC-Irvine iMedEd Initiative - Etiquette





Audience Response Systems

- Classroom Engagement
- Learning Improves
- Assessment Improves

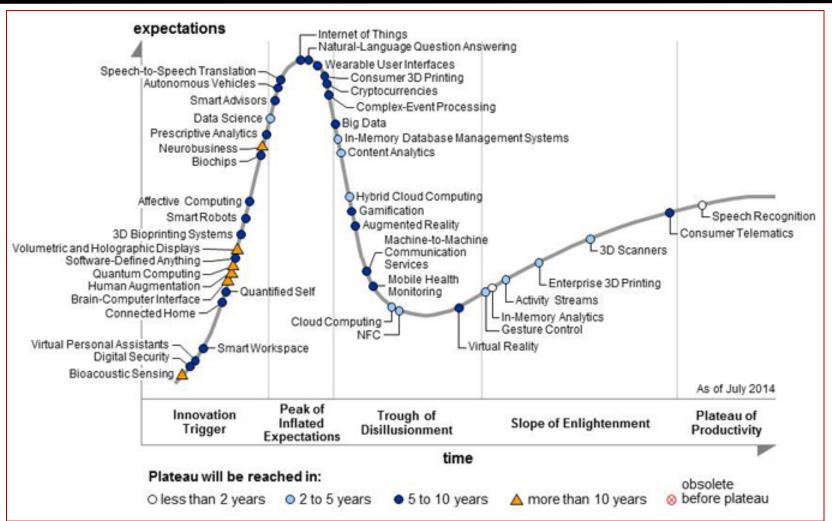


Mobile Health Tech in Med Education

- 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







Gartner, August 2014. Found at: http://www.gartner.com/newsroom/id/2819918

How to evaluate apps









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





