



iNeedHelp: Integrating Technology to Improve Teaching on Family-Centered Rounds

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CME Disclosures

- None, sadly



- Dr. Hobbs – 2017 Apple Distinguished Educator. No financial compensation.

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Workshop Objectives

- 1) Identify challenges and explore potential solutions to improve teaching on family-centered rounds
- 2) Learn best practices from around the country on incorporation of technology to improve family-centered rounds
- 3) Participate in small group demonstrations with hands-on time using various technologies to improve FCR education

INTRODUCTIONS

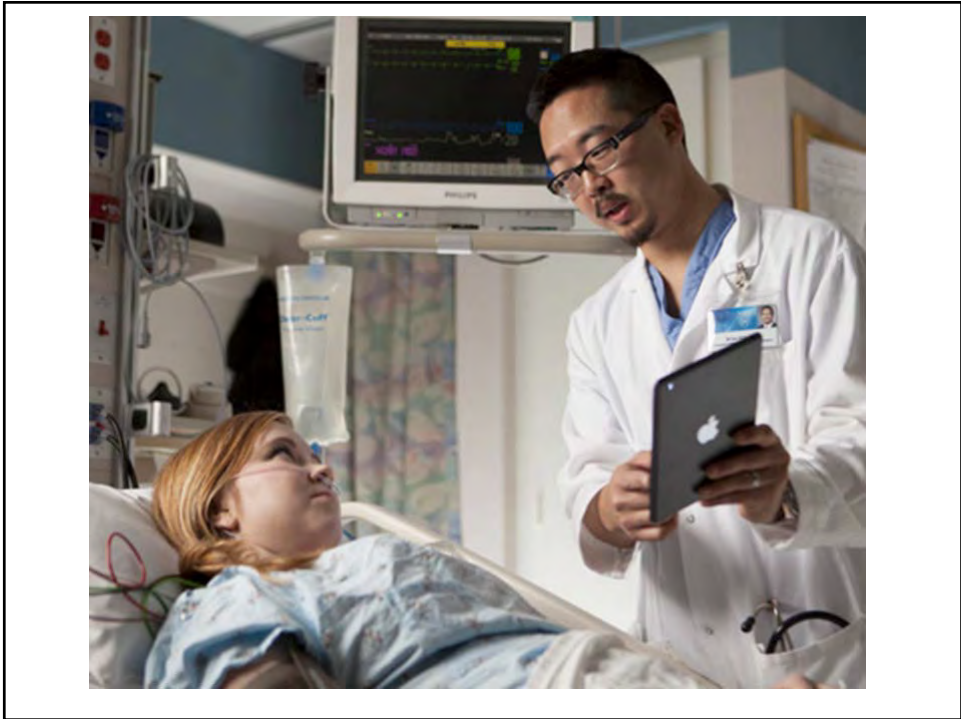


Workshop Outline

1. Challenges
2. Educational theories and approaches for teaching with technology
3. Small group hands-on demonstrations
4. Large group discussion on solutions and lessons learned

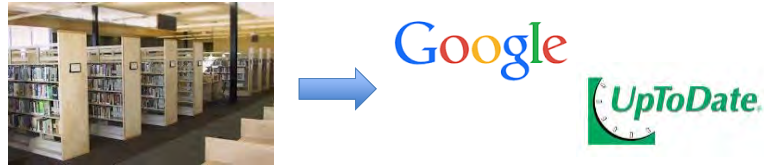
Background and Rationale



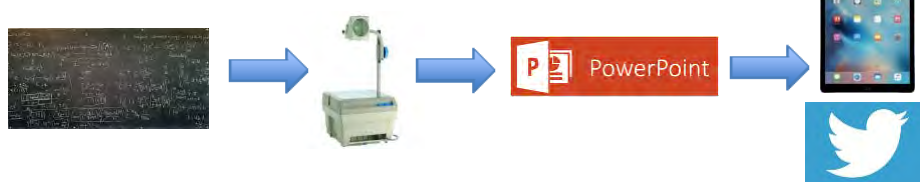


Why technology and teaching?

- Information explosion and digitalization



- Rapid increase in educational technology



- New generation of learners



Generational Change

Table 1 Characteristics of the generations

	Traditionalist	Baby boomer	Gen X	Gen Y or Millennial
Year of birth ^a	1925–1945	1946–1964	1965–1980	1981–2000
Notable events	WW II	Space exploration, the "counterculture"	Vietnam War, Watergate, rise/fall of the Cold War, mass media	Persian Gulf War, Internet, multiculturalism
Attributes	Veterans, loyal, follow rules	Driven, question authority, optimistic	Latch-key kids, independent	Structured, team player
Work is	An obligation	An adventure	Difficult and challenging	A means to an end
Leaders/teachers	Respect them	Replace, challenge them	Ignore them	Leaders and teachers must respect us
Other	Do the right thing Clear gender roles	Workaholics Value experience over expertise	Do not believe in "paying your dues" Work success defined by competence	Happy without having it all Hardworking, but desire balance

Gen, generation; WW II, World War II.

^aVariations of the year intervals appear in the literature.

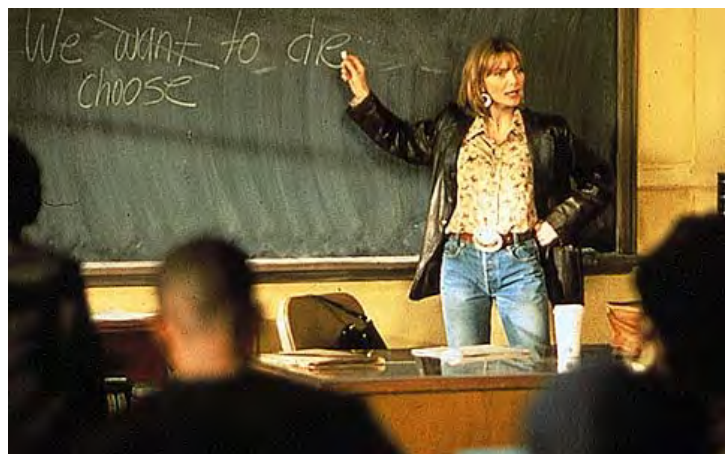
Clinical and Translational Gastroenterology (2015) 6, e78; doi:10.1038/ctg.2015.4

Preferences of Millennial Learners

- Interactive group activities, workshops, simulation, game-style presentations
- Web-based, self-directed learning
- Sharing and access to educational materials
- Technology-enhanced, convenient, personalized, relevant teaching

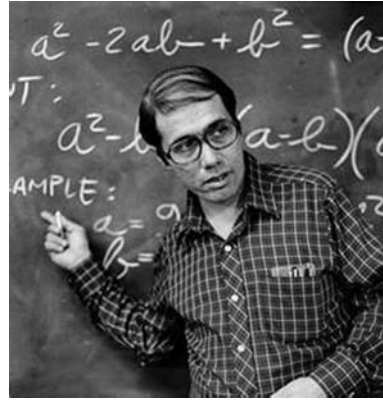
Technology and Educational Theory

- Fundamentals of andragogy: self-directed, internally motivated, interested in real time problem solving, accumulate experience
- Differences in learning styles
- Use of multimedia can support the needs of different types of learners while following the principles of andragogy



Educational Strategies using Technology

- Just-in-time
- Educational pre-rounding
- Flipped learning
- E-learning/multi-modal
- Peer-to-peer teaching
- Social media



Just-in-time Teaching

- Maximize learner preparation and set them up for success
- Examples: mini-lectures using a tablet on rounds, longitudinal curriculum support using apps with notifications/reminders to faculty and learners

Educational pre-rounding

- Choosing teaching points or topics ahead of time
- Example: Use of kahoot or poll everywhere to assess learner needs

Flipped Classroom

- Students independently learn foundational concepts ahead of time, knowledge application and problem-solving occur during group sessions facilitated by the teacher
- Recent systematic review of its effectiveness in medical education

E-learning/Multi-modal

- Podcasts, web-based courses, virtual patient simulations, interactive tutorials, etc.
- Benefits: efficient, unlimited viewing, access across physical distance and in a variety of settings, individualized to learning style
- Can be incorporated into traditional didactic sessions, for example embedded videos or audience response systems into lectures

Peer-to-peer Teaching

- Must know and understand concepts well in order to teach it, promotes educational leadership
- Resident as Teacher curriculum
- Use of media to support family education

Social Media

- Twitter – two-way sharing platform
- Group-sharing formats – Google Drive, Dropbox for sharing documents, educational materials
- nDorse app – reminders and real time positive reinforcement within an institution or group

Breakout Sessions

1. Outside the Door
2. In the Room
3. Communicating with Patient and Family
4. Choosing Wisely



Time's Up!



GROUP SHARE



Please contact any of us with questions!

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