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An Innovative Partnership Paradigm: Patient Engagement and Health Information Technology Curriculum for PhD Nursing Students

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Disclosure

The authors have no competing interests to declare.

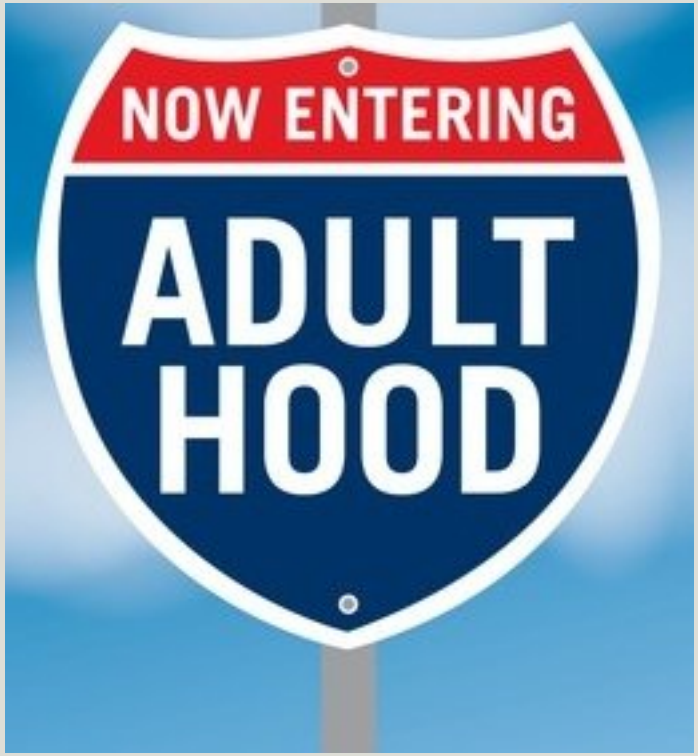
Learning Objectives

- Overview of nurses' changing role in and expectations for role in patient engagement experience
- Recognition of need to develop an innovative curriculum aimed at forming skills to implement patient engagement and to incorporate health information technology in engagement
- Awareness of curriculum created to
  - increase exposure to state-of-the-art engagement techniques
  - build interdisciplinary relationships that support patient-centered care and culture change
  - acquire knowledge and skills to effectively lead engagement and healthcare design initiatives

Background

- Individuals have greater access to their health data than every before
- Individuals are increasingly generating their own health data
- Online tools make accurate health information more accessible
- Apps and websites could enable individuals to directly participate in self-management
- U.S. Department of Health and Human Services 2017 directive

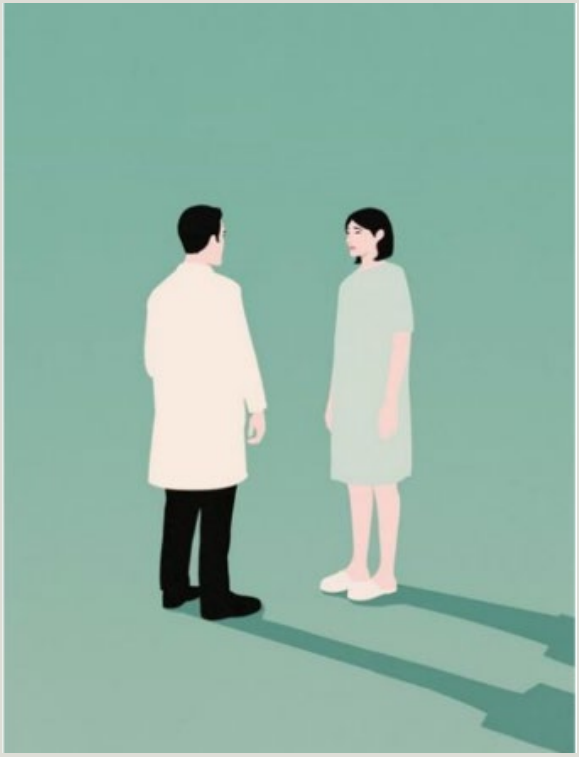
Community-Academic Partnership



- Patient Centered Outcomes Research Institute (PCORI) supported community-academic partnership addressing adolescent healthcare transition in an underserved community
- Partnership among patient-advocacy organization, school of nursing, and pediatric hospital
- Addressing:
  - Independence
  - Transition
  - Research

Concept

- Clinicians educated, trained, and socialized to be care providers not partners
- Need to manage engaged care process including assessing patient engagement capacity, exchanging information, and intervening
- Nurses have formidable direct and indirect influence on patient engagement
  - Often first point of care and organization transformation leaders



Patient Engagement

- Requires processes, structures, and relationships
- Strengthen individual's ability to:
  - make informed healthcare decisions
  - weigh costs and benefits of how to reach optimal health
- Hopefully improve quality of life

Determining Needs

- Building upon patient and family suggestions, conducted assessment of PhD curriculum for:
  - Patient centeredness and patient engagement awareness
  - Health information technology
- Determined need for patient engagement and technology seminar
  - create an innovative curriculum aimed at developing a new generation of nurse scientists
  - skills to implement patient engagement
  - incorporate health information technology as part of their methodology

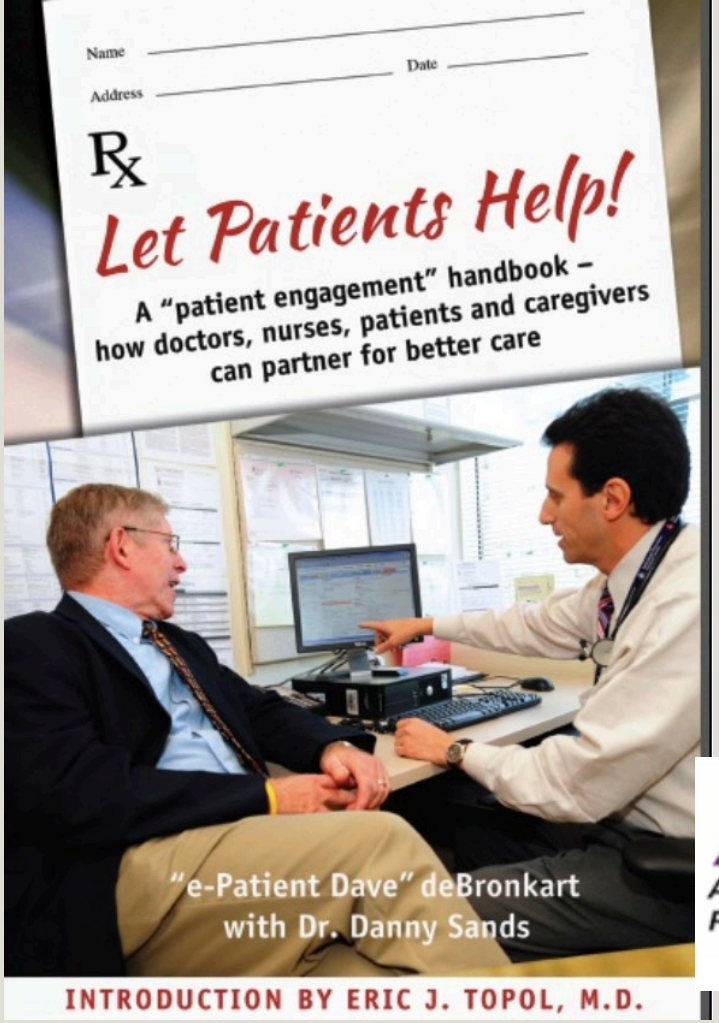
Designing Curriculum

- Subject matter experts
- Literature review to identify relevant interdisciplinary engagement themes
- Incorporate technology examples
- Review, present, and emulate state-of the art engagement techniques and case studies
- Design evaluation tools

Teaching Strategies

- Readings
  - Evaluation of methodology
- Presentations/Lectures
- Videos
- Case studies
- Student designed solutions

- *Patient presentations*



YouTube

Health Affairs

pcori

AHRQ
Agency for Healthcare
Research and Quality

JAMIA
A SCHOLARLY JOURNAL OF INFORMATICS IN HEALTH AND BIOMEDICINE

TED
Talks

Patient
Reported
Measures

Society for
Participatory
Medicine

Journal of Medical Internet Research

Themes Explored

- Age
- Language(s) Spoken
- Socioeconomic status
- Race/ethnicity
- Literacy: reading level, health knowledge, e-health
- Engagement measures
  - Engagement level
  - Evaluation of technology incorporation
- PCOR Research
- Validity of submitted data
- Immigration status
- Veteran status
- Urban/rural
- Inclusion in informatics design

Assessment

- In-class discussions
- Individual article presentation and guided discussion
- Project proposal addressing an element of patient engagement and patient-centered outcomes methodology applicable to their scholarly expertise or organizational need

- *Project evaluation of an informatics solution*

Outcomes

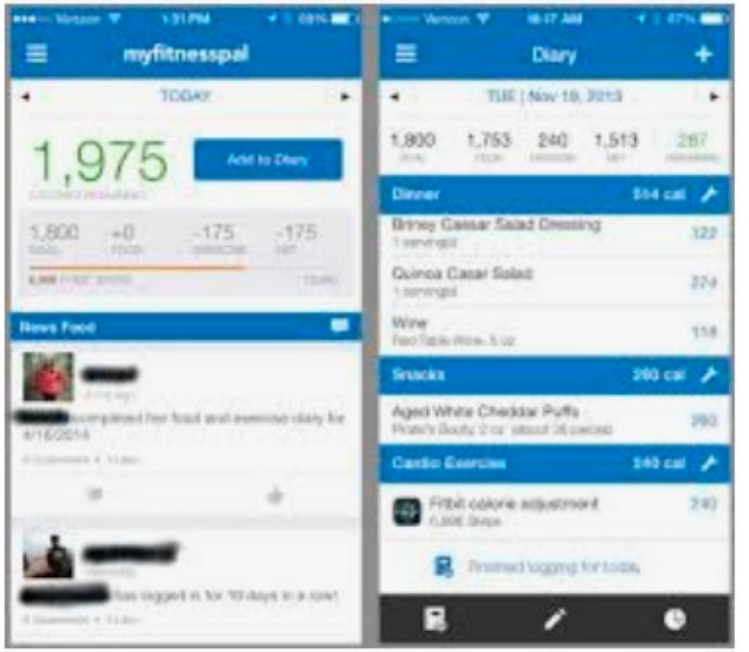
- Students critically explored patient engagement and patient activation from multiple stakeholder viewpoints
  - Health care provider
  - Family member
  - Patient
  - Other relevant stakeholders
- Analyzed and critiqued relevant research methodologies in patient engagement technology
  - Patient portals
  - Health monitoring applications
  - Social media
  - Other modalities

Additional Learnings

- Students also explored the role of technology including tracking devices, social media and other platforms as sociocultural factors shaping health behavior and patient engagement
- Incorporated international research and a myriad of cultural approaches to engagement
  - Students had practical tools applicable within a variety of cultural environments

Results

- More familiar with concurrent and related growth of patient centered outcomes research and proliferation of health – related technology
  - EHR
  - Portal
  - e-PROMS
  - Personalized health data trackers
  - Computer/telephone applications



Student Feedback

- Reported high levels of acceptance
- Noted multiple ways in which course influenced clinical practice and research goals
- Participants suggested restructuring of class elements
  - Order of the themes
  - Incorporate patient or caregiver speakers
  - Study more technologies/mobile apps

Conclusion

- Students felt curriculum was sufficiently broad and had provided needed exposure to patient engagement theory as well as practical examples of patient engagement
- Further expansion of future seminars would invite patient or caregiver speakers to discuss their own experiences

Thank you!

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