The Bridges Curriculum: A Pedagogically Driven Redesign to Fulfill Medical Education's Social Contract

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Objectives

- 1. Outline the differences between pedagogical and design based curriculum redesign strategies.
- Contrast the different knowledge and skills needed by successful physicians in the 21st century with those needed in the 20th century.
- 3. Apply principles of authentic workplace learning and communities of practice to an outcomes based curriculum redesign project.
- 4. Consider how technology can facilitate this transformation

















Medical Education is:

- Too Long!
- Too Expensive!
- Too Old Fashioned!
- Too Specialty Focused!

Is Medical Education Living up to its Social Contract?

Conventional Curriculum Redesign: Doing our best better



Conventional Curriculum Redesign: Doing our best better



Advances in Pedagogy and Understanding of Learners Conventional Curriculum Redesign: Doing our best better



The Purpose of Medical Education: To Improve Health



Curriculum Redesign with Design Thinking: Begin with the End



Achieving the End Goal Means a Different Health Care System



And Fundamentally Different Physicians



UCSF Catalyzes a Fundamental Shift in the Physician's Professional Identity





Solitary, Hero Physician

Collaboratively Expert Systems Physician

Accountable for and focuses continuously on Patient and Populations Outcomes

Engage with other professionals in models of collaborative practice

Use diverse data sets to drive patient care and system improvement

Embrace redesign and re-monitoring as part of every day's work

Collaborate with other microsystems

Collaborate with biomedical scientists

Collaboratively Expert 21st Century Physicians



Moving from: 20th Century Physician Competencies





Strategies to Address the Need for New Physician Skills



Communities of Practice: Ideal Workplace Learning



Wenger, Etienne (1998) 'Communities of Practice. Learning as a social system', Systems Thinker, http://www.co-i-l.com/coil/knowledge-garden/cop/lss.shtml.



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Imbed students from day 1 in clinical microsystems in developmentally appropriate roles.



Benefits to the Student

- Education is always driven by service to patients.
- Life long learning and inquiry are practiced from the start.
- Patient centered learning and improvement are the purpose of interprofessional work.
- Team based work facilitates care and learning

Preliminary Results

Med 1:

"Today was our last day in the clinic, and it proved to be a great culmination to our work at the clinic. It's amazing to think how much we have learned during our time at the clinic, and I think this aspect of the pilot has been successful in enabling Lauren and me to learn to be a part of health care teams, as well as increased our comfort level in acting within a health system we've learned how patients are seen from the start of their visit to the end of their visit, and we've seen all the behind the scenes work necessary for patients to get the care they need.

"I really appreciated the debriefing that the medical assistant gave me after this patient encounter. She explained to me that I shouldn't be hesitant to speak loudly and be confident, especially because the patient can sense my confidence level. She complimented me on how quickly I picked up their "process" and even asked me if I thought she was a good teacher! This was humbling, since I did not think that an experienced medical assistant would care if I thought she was a good teacher.

Benefits to the system

- Constructs dynamic workplace learning environment
- Provides sustainable intervention force for important issues
- Demonstrates clear value of education to the institution



Accelerates the Transformation

From the nursing staff

This has been an experience unlike anything we have ever done before. I also think we were fortunate to have amazing energy from all, including these students. Thank you!

Using Technology: Digital Learning Objects and Tools

- Allow students to participate in the workplace at peak times and study at slow times.
- Can support distance team learning
- Facilitate education of all members of team, not simply those enrolled in Med School
- Creates flexible learning strategies for different students.



Video Content Digital Text Books Webinars Telemedicine

Future Goals: Learning Analytics

- Provides portfolio of experiences and data to drive personal learning
- Allows for individualized coaching and adaptive learning



Medical Education Curricula must be explicitly designed to benefit patients, the delivery system and students

