New Educational Models for a New Workforce

Interprofessional Education (IPE)

Jan E. Patterson MD MS
Associate Dean Quality & Lifelong Learning
Commitment to IPE – System Level

- UT System
  - Innovations in Health Science Education
  - Clinical Safety and Effectiveness Course
    - 2009 – Building the Bridge at the Quality Chasm
    - 2010 – Building Bridges: Preserving Quality After Health Care Reform
      - Share successful improvement project outcomes
      - Adopt applicable best practices
AIMS

• Integrate quality & safety concepts into everyday work
• Enhance organizational knowledge through dissemination of successful practices
• Train next generation of health professionals to incorporate QI practices in their work

OBJECTIVES:
• Train a core of interprofessional faculty/staff/students in QI
• Implement QI & Safety through project based learning
• Disseminate QI methods within and outside the HSC
Interprofessional Center Activities

- UT System Clinical Safety and Effectiveness Course
  - MDs, RNs, pharmacists, radiology techs, radiation oncology physicists and techs, administrators

- Patient Safety & Quality Course for medical and nursing students

- IPE elective course
  - ‘Interprofessional Care in the HIV/AIDS clinic: Medication Reconciliation’
  - Medical, nursing, respiratory therapy, PA, pharmacy, public health (UT Houston SPH), social work (UTSA)

- IHI Open School for Health Professions chapter
  - All HSC and SPH students + Trinity MHA students
IPE in HIV Elective

Began 2008

Course elements

- Didactics lectures delivered via Blackboard
- Clinic visits
- Community service learning project (added in fall 2010)
- Discussion board
- Group case analysis and discussion
- Self-reflective exercise

<table>
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<tr>
<th>Professional School</th>
<th>Number of students</th>
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<tr>
<td>School of Medicine</td>
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<tr>
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<td>College of Public Policy(Social Work)</td>
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Quality and Patient Safety Course for Medical and Nursing Students
Retooling in Quality and Patient Safety: An initiative of the J. H. Macy Jr. Foundation and The Institute for Healthcare Improvement
Open School for Health Professions

Educating for Quality Improvement & Patient Safety
Objectives

- **Initiate** a quality improvement (QI) and patient safety (PS) course in standard curriculum for medical and nursing students (MS&NS).

- **Increase understanding** of potential commonalities and synchronicity of MS & NS curricula

- **Form a strong interprofessional education (IPE) faculty team** to develop strategies for sustaining and extending this project

- **Increase knowledge in QI** and safety from standard curriculum for MS and NS

- **Achieve three identified core competencies**
Context

SOM

(Clinical Safety & Effectiveness Course)

Jan E Patterson, MD, MS - Assoc Dean, Quality & Lifelong Learning

Kristy Kosub, MD - MS III Clerkship Director

SON

(Quality & Safety Education for Nurses)

Suzanne Yarbrough, PhD, RN - Assoc Dean, Undergraduate Programs

Danet Lapiz-Bluhm, RN, PhD - Research Scholars Program Director

Elective Quality & Safety Course

MS III & 2nd semester NS
Results
RIPLS Pre & Post Course

Post course RIPLS scores for questions 1 & 3 regarding teamwork were significantly higher than pre course. (p<0.04).

1. Team-working skills are essential for all health care professionals to learn.

3. Learning with other health care professionals will help me be a more effective member of a health care team.

Cronbach’s alpha was $\geq 0.7$ pre- and post-course, indicating internal consistency.
Results

Self-reflective exercise quotes:

‘I have to say I enjoyed having the opportunity to work with nursing students.’  _MS_

‘Integrating future physicians and nurses so early in their learning process, surrounding them with a positive environment, & allowing them to truly focus on improving patient care, is invaluable.’  _MS_

‘This would be better in the MS 2 year’  _MS_

‘a great learning experience’  _NS_

‘a valuable skill set’  _MS_

‘The quality course has been an interesting journey, not only for the students, but for the faculty!’  _NS_
Next Steps

**New or enhanced curricular offerings**

- PSQI curriculum for SOM and SON integrated into MS2 and 1\textsuperscript{st} and 2\textsuperscript{nd} semester NS on Fridays.
  
  Fall: 182 (117MS + 65 NS); Spring: 236(116MS + 120NS)

**New teaching methods**

- Didactic teaching of MS and NS together
- **New didactics**: evidence-based medicine, TeamSTEPPS
- **Small group facilitated sessions** for interactive learning of PSQI tools with case studies and IPE discussions.
- Continue **focused version** of PSQI course for MS3s on Medicine clerkship.
IPE Topic Areas

- Quality improvement, Patient safety
- Evidence-based practice; literature appraisal
- HIV care
- Geriatrics/Aging
- Palliative Care
- Emergency preparedness
- Trauma
- Medical ethics & professionalism
- Community service learning