### Background

Our Baylor IHI Open School Chapter started down the path to create a Quality Improvement and Patient Safety curriculum in 2010. The Chapter’s first President, Joshua Liao, helped create a pre-clinical Patient Safety course for medical students that is required in their second year. Chapter members have played a large role in that course’s continued development by writing exam questions, collecting student feedback, and brainstorming course improvements. Last October, the Chapter decided to build on that course and create an elective that would provide hands-on experience in Patient Safety and Quality Improvement.

### Steps of Development

**Step 1:** Finding faculty who were willing to serve as champions to educate students at our affiliated institutions

**Step 2:** Needs assessment and literature review.

**Step 3:** Development of the clinical elective curriculum.

**Step 4:** Presentation of the curriculum to the medical school curriculum committee for final approval

**Step 5:** Evaluation and improvement

### Elective Highlights

**Week 1:**
- Refresher on fundamentals of quality improvement with a focus on patient safety
- Workshop based on IHI Module: QI 102-104 – Model for Improvement (90 minutes)
- Discuss QI projects. Assign student to an ongoing project. Meet with mentor working on project. (If an RPIW or RCA is occurring, this will replace the project participation aspect)
- Complete 2 practical applications activities

**Week 2:**
- Attend one committee meeting
- Complete 2 practical applications activities
- Meet with course director to discuss progress of project
- Discuss articles with Internal Medicine Residents

**Week 3:**
- Attend one committee meeting
- Complete 2 practical applications activities
- Meet with course director to discuss progress of project

**Weeks 4:**
- Independent study time to complete project
- Article discussion
- Project presentation

### Longitudinal Expansion

A four-year Safety & Quality Track is in development for medical students interested in patient safety and quality improvement. The track is designed to educate students, expose them to ways in which medical quality affects clinical practice, and prepare them for careers as leaders in healthcare improvement.

### Sample Schedule

<table>
<thead>
<tr>
<th>Step</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Attend QI Workshops (1)</td>
</tr>
<tr>
<td>2</td>
<td>Attend Committee Meeting</td>
</tr>
<tr>
<td>3</td>
<td>Attend Committee Meeting</td>
</tr>
<tr>
<td>4</td>
<td>Independent Study to Work on Project</td>
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**Introduction to Quality Improvement Elective:**
- A 4 week elective with 4 separate one-hour lectures
- Lectures led by Quality Improvement champions from the department of Pediatrics at Texas Children’s Hospital
- Course objectives center on core Quality Improvement principles

**Evening Faculty Seminars:**
- Every other month, members of the IHI Open School Chapter will meet in the homes of faculty mentors
- Content will include articles, research experiences, and current events
- Faculty mentors serve on a panel as sponsors for the IHI Open School Chapter

**Journal Club, Noon Conference, Grand Rounds:**
- Many opportunities to learn about QI/PS within the Texas Medical Center
- Chief Residents for QI/PS at the Michael E. Debakey Veterans Association Medical Center lead several educational meetings

**Capstone Project:**
- Students will start a Quality Improvement or Patient Safety project during their clinical elective experience. They will then follow that project longitudinally beyond their elective experience.
- Each student will present their project at our chapter’s annual conference and will submit it to the national IHI conference.