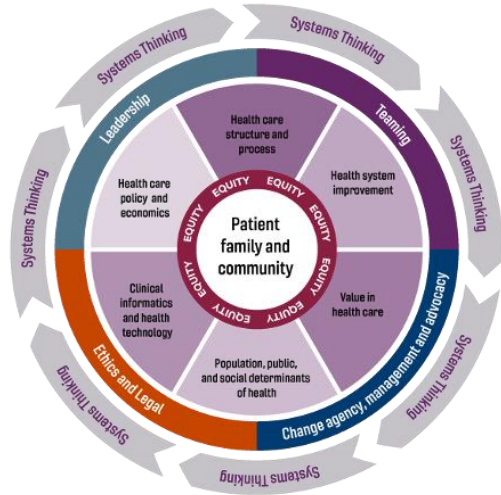


## Background



- Quality improvement (QI) efforts result in a 1-3% improvement in hospital surgical outcomes per year
- QI is an important aspect of health systems science (HSS)
- Learning how to perform QI projects is a critical part of medical training

## Curricular Goals

1. Students will understand how quality improvement relates to health systems science
2. Students will learn how to initiate, develop, and complete quality improvement projects

## Curricular Learning Objectives

After the surgical clerkship didactic session and subsequent Systems Session, students will be able to:

1. Recognize the steps and principles of quality improvement
2. Describe the use of the Systematic Problem Solving (A3) process in quality improvement
3. Demonstrate the ability to summarize a quality improvement project using A3

## Curricular Elements

### Clerkship: Quality Improvement Interactive Lecture

"Introduction to QI" didactic

Moderated case discussion using real-world example (i.e. reducing surgical site infection, improving perioperative glucose control)



### System Session: A3 Creation and Presentation

"Introduction to A3" didactic

Students create A3 using case from clerkship

Students present A3 to class and receive update on project from moderators

## Student Feedback



"Great exposure to new forms of research and consolidation of information."

"I think it would be helpful to give students an opportunity to actually join these projects as formal research projects."

"It was a nice addition to hear from the presenters how the projects were progressing in real life and some of the real world challenges in implementation."

"Since these were all projects that were ongoing that none of us were actually involved in, it felt a little like just putting someone else's work onto a slide to present. It made it difficult to become invested/find meaning in the task."

## Next Steps

1. Score A3 output
  - Provides objective, actionable assessment
2. Understand student feedback and modify clerkship didactic and Systems Session as needed