

## RATIONALE/NEED

The ACGME requires that residents be trained in quality improvement (QI) methodology and learn about and participate in patient safety (PS) systems.

### Existing QI and PS Training:

- All GME trainees complete IHI Basic Certification prior to matriculation.
- Pediatric and Med-Peds residents also:
  - participate in group QI projects during each year of training
  - identify, report, and discuss PS events
  - lead a group analysis of a PS event or system
  - may participate in root cause analyses when they occur
- Some faculty have advanced training and/or experience in QI / PS.

### Perceived Gaps:

- Individual hands-on practice with QI and PS tools and processes
- Faculty development in QI and PS systems

## METHODS

### Needs Assessment

- Department PS / QI experts and residency program leadership evaluated current educational experiences to identify gaps
- Faculty surveys were analyzed to assess for faculty development needs

### Curriculum Development

- New curricular experiences were designed to address gaps
- Implementation occurred during resident conferences, Grand Rounds, and faculty meetings during the 2018-2019 academic year
- Evaluation consisted of post-session feedback from attendees.

## RESULTS

### Gaps identified:

- 1) Awareness of institution's PS / QI agenda
- 2) Manipulation, presentation of data
- 3) Performance of Root Cause Analysis
- 4) Turning PS / QI into scholarship
- 5) Faculty expertise for mentorship



### Curriculum Design

- Delivery methods: lecture, mentored small group practice, and group discussion
- Settings: resident core lecture series, Grand Rounds and faculty meetings
- Evaluation: directly observed practice, post-session surveys

### Curriculum Delivery

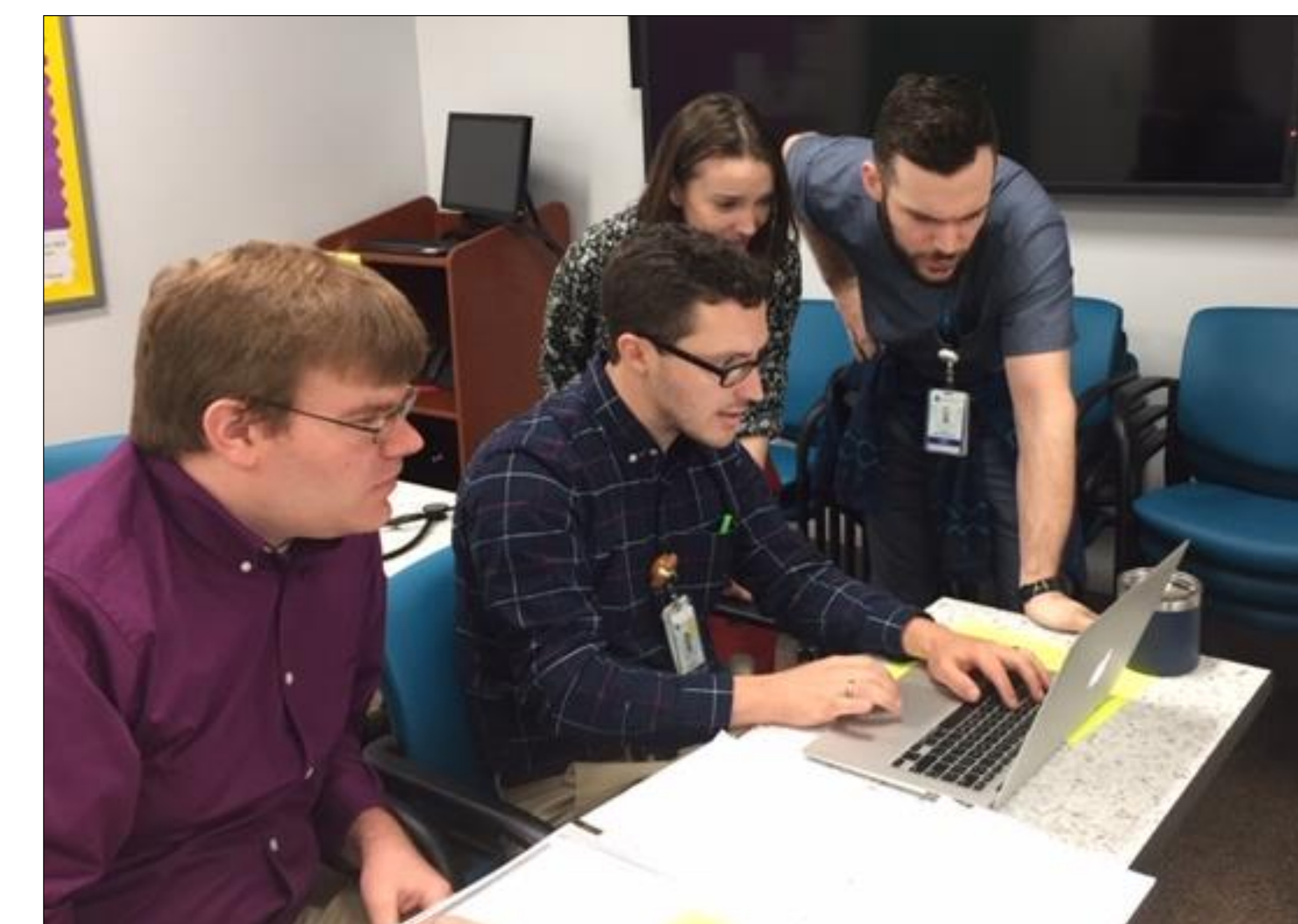
- Launched with a Grand Rounds describing Department's quality and safety agenda
- Subsequent didactic sessions:
  - review of QI basics
  - data management, presentation
  - tips for turning QI / PS into scholarship
  - faculty tips for teaching use of QI tools
- Hands' on practice sessions:
  - crafting a SMART aim statement
  - performance of a simulated root cause analysis
  - implementation of SQUIRE 2.0 criteria.



## EVALUATION PLAN

### Session feedback:

- Initial resident session (QI Basics / Aim statement practice)
  - 28 / 29 residents (97 %) rated the content as "Outstanding," the highest selection on a 4-point Likert rating scale
  - Comments: "Great examples," "Engaging," "Interactive," and "Dynamic."
- Grand Rounds (Department QI / PS agenda)
  - 33 / 38 (87%) indicated an "Intent to Change Practice"
  - 43 / 45 (96%) thought the presentation "Evidence-Based/Scientifically Sound."



## IMPACT/LESSONS LEARNED

This pilot of an enhanced PS/QI curriculum has been well received. It has accomplished the goals of engaging residents in more hands-on educational opportunities and introducing more faculty to basic QI / PS principles.

Next steps are to develop methods to more formally analyze the impact of the curriculum on the knowledge, self-efficacy, and behaviors of pediatric trainees.