

Designing A Quality Improvement Curriculum: Optimizing Valuable Resident Time



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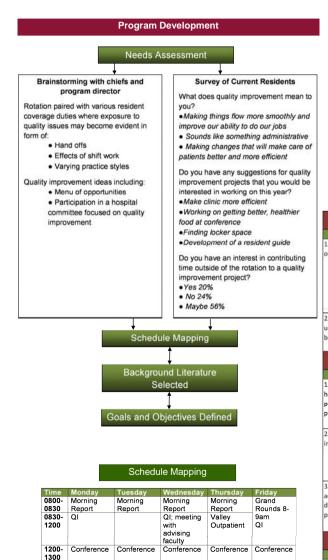
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Context

- •Quality Improvement is a relatively new ACGME requirement with which residency programs may struggle due
- ·Lack of time
- •Lack of previous training
- •Many programs have developed a continuum of education focused on Quality Improvement however this can take significant faculty investment and resident time
- •In the Pediatric Residency Program at Stanford University, Lucile Packard Children's Hospital an opportunity exists to participate in Quality improvement through the Stanford Advocacy Track
- •This track gives residents exposure to Quality Improvement, however not all residents participate
- •Developing a Quality Improvement curriculum was essential to
- Address Quality Improvement concepts
- •Direct experience in project development
- •Comply with ACGME requirements

Objective

To demonstrate the development of a Quality Improvement curriculum mandatory for all pediatric residents



Inpatient

ward

Acute Care

Clinic

Acute Care

Improvement Meeting

focused on hospital wide

Clinic

Outpatient

1300-

1700 Clinic

Continuity

Program Development Background Literature

A series of articles were reviewed and selected for self directed learning:

- 1. Ouality Improvement Methodology
- 2. Plan Do Study Act cycles
- 3. Root Cause Analysis
- 4. Error and Harm in Pediatrics and Difficulties in Measurement
- Differences in the Scientific Process and the Quality Improvement Process
- 6. Cultural and Systemic Barriers to Safe Healthcare
- 7. Lessons from Too Err is Human
- 8. Examples of Quality Improvement in action across the country

Goals and Objectives Defined

Goal	Appreciate the impact and complexity of the logistics and infrastructure required to deliver healthcare	
Resident Objective	Instructional Strategies	ACGME Competency Goals
 Demonstrate knowledge 	Write down all the steps involved in	Patient Care
of safeguards	medication administration	
	Discuss keys to being a good supervisor	Problem Based Learning and Improvement
	Discuss expectations for interns	
	Supervise hand offs and discuss and ideal hand off	Systems Based Practice
2. Demonstrate understanding of core body of literature	Critically appraise articles and discuss with rotation directors	Medical Knowledge
Goal	Develop critical thinking skills related to systen	ns and related errors and acquire
	practical knowledge about how to effect change	
Resident Objective	Instructional Strategies	ACGME Competency Goals
Identify a situation you have encountered with a potential or actual poor patient outcome	Write down the situation and outline the processes surrounding the faulty system	Systems Based Practice Interpersonal and Communication Skills
2. Gather data on factors impacting the system error	Investigate the historical context of the system, alternative systems and solutions	Systems Based Practice
	Identify key players to ensure success	Interpersonal and Communication Skills
	Barriers and soltions to barriers	
 Contribute to a project addressing an institutional deficiency that will impact patient care or education 	Overview of existing project(s) Review previous documentation Set and accomplish goals Document steps taken on project	Systems Based Practice
Goal	Develop awareness of ongoing hospital improvement initiatives and identifying methods to expand these initiatives in the resident setting	
Resident Objective	Instructional Strategies	ACGME Competency Goals
Attend a Quality	Observe details involved in large QI projects	Systems Based Practice

Identify outcome measures utilized

How is success measured and sustained?

Learn about evaluation

Quality Improvement Projects

- Projects formulated by residents and guided by program directors
- •Initial focus was initiation of morbidity and mortality conference
- •Education gap in pediatric residency
- Opportunity to focus on safety and systems issues
- •Basis for future Quality Improvement initiatives
- •Current projects chosen from issues raised in morbidity and mortality conferences based on
- Feasibility
- •Resident Interest
- Potential practical solution to systemic problem
- •Institutional significance

Conclusions

- •This Quality Improvement curriculum developed for this residency is easily adaptable to other programs
- Brief rotation
- •Requires nominal amount of resident time
- •Requires nominal amount of faculty time
- Introduces Quality Improvement concepts
 Necessary for ongoing patient care
- improvement
- Necessary for ACGME compliance
- •Necessary for maintenance of pediatric board certification
- We expect residents leave this rotation with
- •A better sense of the systems that influence patient care
- •A heightened interest in quality improvement •Skills and desire to help create "Ideal Healthcare" according to the Institute of Medicine

Safe Timely Effective Efficient

Patient Centered