Quality Curriculum for PGY-1/2 Research Months & QI Project Outline

PGY-1 (and PGY2+ for 2019-2020 year)

Unit 1: Patient Safety

Description: The human and financial toll of medical error and adverse events around the world is enormous. Blame is rarely the appropriate (or helpful) response to error. This unit teaches the essential behaviors that any health care professional can adopt to improve the safety of patients as well as communication tools and the analysis of patient safety adverse events.

Prerequisite: none

Timing: Complete during PGY-1 research month or prior

Resource: IHI Open School

Outline:

Complete "Patient Safety" of IHI

- PS 101: Introduction to Patient Safety
- PS 102: From Error to Harm
- PS 103: Human Factors and Safety
- PS 104: Teamwork and Communication in a Culture of Safety
- PS 105: Responding to Adverse Events

Unit 2: Quality Improvement Building Blocks

Description: As the Institute of Medicine (IOM) declared in 2001, in words that still ring true, "Between the health care we have and the care we could have lies not just a gap, but a chasm." The science of improvement, with a theory of how to change systems, will be introduced and practiced. The psychology of change will be reviewed as the ability to rally constituents around the cause of improvement is every bit as important as having a good idea for change.

Prerequisite: none.

Timing: Complete during PGY-1 research month or prior

Resource: IHI Open School

Outline:

Complete "Quality Improvement Capability"

- QI 101: Introduction to Health Care Improvement
- QI 102: How to Improve with the Model for Improvement
- QI 103: Testing and Measuring Changes with PDSA Cycles
- QI 104: Interpreting Data: Run Charts, Control Charts, and Other Measurement Tools
- QI 105: Leading Quality Improvement

PGY-2 Year (for 2019-2010 year and all future years)

Unit 3: Quality Improvement: Bringing It All Together

Description: Quality improvement initiatives require a multidisciplinary approach with team members to help tackle the problem. The module will solidify the tools learned in the early modules through direct application of the tools to a real clinical project.

Prerequisite: Unit 1 and Unit 2

Timing: Complete IHI certification and required reading during PGY-2 research month. Begin QI Project in PGY-2 research month and complete during research years

Objectives:

- Plan for and execute an improvement project through four key phases: PDSA.
- Apply strategies to work effectively with interprofessional colleagues and overcome resistance to change.

Resources: IHI Open School, Quality In-Training Initiative of NSQIP

Outline:

1. Complete Remaining IHI Curriculum for Basic Certification
    - TA 101: Introduction to the Triple Aim for Populations
    - PFC 101: Introduction to Person Centered Care
    - L 101: Introduction to Health Care Leadership
2. Complete IHI Evaluations for Basic Certification Completion
3. Read "Practical QI: The Basics of Quality Improvement Education. The Quality In-Training Initiative: An ACS NSQIP Collaborative" https://qiti.acsnsqip.org/ACS_NSQIP_2017_QITI_Curriculum.pdf
4. Begin QI Project (see guidelines below)

QI Project Guidelines (any year, to be completed by end of research years)

Description: Quality improvement initiatives require a multidisciplinary approach with team members to help tackle the problem. Performing a QI project will solidify the learning materials and provide experience designing, implementing, and monitoring a project.

Prerequisite: Unit 1, Unit 2, Unit 3

Timing: Begin QI Project in PGY-2 research month and complete during research years.

Outline:

- Define project and faculty mentor.
- Submit project proposal including mission statement, team members and conceptual diagram to QI Curriculum Leader (Dr. Holder-Murray)
- Submit project for IRB/QI as needed.
- Complete project during PGY-2 through research years.
- Submit 2 page final report to QI Curriculum Leader and faculty mentor. Use tools learned in report including define mission statement, identify team members, show conceptual diagram of leverage points to address problem, write a specific aim statement of the individual problem you will be addressing, and use measurement of outcomes.
- *Final report due May 1 of end of research years.*