

Quality Improvement and Research – Goals & Objectives

- **Participating Site(s):** Summa Health System (approved research sites as determined by mentor and CCC)
- **Duration:** 4 weeks
- **Required or Elective:** Elective (CCC approval required)

Rotation Overview

The QI and Research rotation provides residents with protected time to engage in scholarly activity under the supervision of an approved faculty mentor. Residents focus on developing, conducting, and disseminating a research or QI project related to patient care, medical education, quality improvement, or health systems, while maintaining continuity clinic and call responsibilities.

Overall Rotation Goal

The goal of this rotation is for residents to develop foundational research skills, and/or QI skills, including project design, data analysis, and scholarly dissemination, while strengthening critical thinking, self-directed learning, and academic professionalism.

Educational Objectives (Aligned with ACGME Competencies)

Patient Care

Residents will be able to:

- Apply research findings to improve clinical reasoning and patient care where applicable
- Integrate scholarly inquiry with clinical responsibilities in continuity clinic

Medical Knowledge

Residents will be able to:

- Explain the clinical or educational significance of their research topic
- Analyze existing literature to support hypothesis generation and project development
- Apply evidence-based principles to research design and interpretation

Practice-Based Learning and Improvement

Residents will be able to:

- Identify learning gaps and develop a research question or project approved by REEAC
- Evaluate outcomes and reflect on findings to improve future practice or scholarship
- Incorporate mentor feedback to refine research methodology and conclusions

Interpersonal and Communication Skills

Residents will be able to:

- Communicate progress and results clearly to mentors and faculty
- Present scholarly work in written or oral formats appropriate for submission or presentation
- Collaborate effectively with research mentors and interdisciplinary team members

Professionalism

Residents will be able to:

- Demonstrate accountability by meeting project deadlines and required progress reporting

- Uphold ethical standards in research conduct and data handling
- Balance research responsibilities with ongoing clinical duties

Systems-Based Practice

Residents will be able to:

- Navigate institutional research processes, including REEAC approval and mentorship structures
- Recognize the role of research in improving healthcare delivery and outcomes
- Contribute scholarly work that supports institutional or system-level improvement

PGY-Level Expectations

PGY-1:

- Participate in a faculty-guided research project and demonstrate basic understanding of research methods
- Complete assigned tasks under direct supervision

PGY-2:

- Develop components of a research project with indirect supervision
- Apply literature review and data analysis skills to project advancement

PGY-3:

- Lead an approved research project with faculty mentorship
- Produce scholarly work suitable for abstract submission, presentation, or publication

Teaching and Learning Activities

- Independent research under faculty mentorship
- Literature review and data analysis
- Mid-rotation and end-of-rotation progress summaries
- Scholarly writing and presentation preparation

Evaluation and Feedback

Resident performance is evaluated through:

- Faculty mentor assessment
- End-of-rotation faculty evaluation mapped to applicable ACGME milestones
- Review of scholarly output and completion of required summaries

Residents receive ongoing formative feedback and summative feedback at the conclusion of the rotation.

Supervision

Faculty supervision is provided by an approved research mentor and overseen by the Research Rotation Director in accordance with ACGME supervision guidelines.

