

PEDIATRICS RESIDENT RESEARCH ROTATION CURRICULUM

****All Goals and Objectives for this rotation are identical across all PL years****

GOALS AND OBJECTIVES

The objective of the Research Rotation is to provide residents in Pediatrics and the Combined Internal Medicine-Pediatrics Program with opportunities to engage in focused, intensive scholarly activities. It is anticipated that this Rotation will enhance Residents' abilities to formulate and undertake research endeavors.

As development and presentation of a scholarly project is a requirement of Pediatric Residency training at Stony Brook Children's Hospital, this structured rotation should significantly facilitate satisfactory completion of this obligation.

GOALS

Goals of this rotation are for residents to obtain competence in several of the following areas through mentored supervision of their scholarly activities in the Program:

Posing a research question

Performing a literature review

Designing and analyzing questionnaires

Conducting sample size calculations

Performing statistical analyses

Preparing an abstract or article

Disseminating results via poster or platform presentation

OBJECTIVES

In achieving these goals, Residents will also demonstrate increased awareness and proficiency in related aspects of their program competencies. Improvement will be assessed in specific facets of the following categories:

Practice-Based Learning and Improvement

Residents will

Understand basic principles of academic and clinical research

Learn how to formulate research questions

- Exhibit effective approaches for acquiring new or additional information
- Develop critical, evidence-based processes for decision making
- Locate appropriate resources to address specific research questions
- Discuss principles of and employ common analytical and statistical methods

Medical Knowledge

Residents will

- Identify and access up-to-date and relevant clinical information
- Integrate new clinical information in design and conduct of own project

Systems-Based Practice

Residents will learn to

- Cultivate informational resources and networks among colleagues in field
- Recognize added value of and incorporate teamwork into research efforts

Interpersonal and Communication Skills

Residents will cultivate

- Effective communication with research team members
- Presentation skills for research rationale and results
- Collaborative skills for facilitating research progress

Professionalism

Residents will demonstrate awareness and proper conduct in

- Assuming responsibility for training and research duties
- Ethical principles for obtaining consent, assent and competence in decision making
- Resolving ethical dilemmas involved in patient recruitment, enrollment and research
- Integrity and discipline in data acquisition
- Honesty and appropriate recognition of others' research contributions

Additionally, this rotation is expected to facilitate and enhance Residents'

Inquisitiveness and exploration skills

Ingenuity and discipline to accomplish research objectives

Curricular Format and Expectations:

1. **Prior** to starting your Research Rotation

- Identify a Research Mentor and provide the name of your mentor to the Rotation Director
- Outline a schedule for each day of the Research Rotation
- Meet with Rotation Director to discuss:
 - Schedule – Develop a Day-by-Day Calendar of Research Activities,
 - Rotation Goals – Identify what projects to be accomplished
- Expected Products – Delineate 'deliverables', e.g. literature search, print out of IRB application, meeting abstract, manuscript draft, etc.

2. **During** Research Rotation

- Meet with Rotation Director on (or before) Day 1 of Rotation to provide completed Calendar of Research block activities
- Meet with Research Mentor weekly to get feedback on work and progress
- Meet with Research Mentor at least once every two weeks to discuss research questions, direction, problems

3. At the end of the Research Rotation

- Compile Research Products as Summary Files, Documents, etc.
- Enter Files on New Innovations Portfolio function

Remember, your Research Rotation is a very flexible month. It can be devoted solely to research or can be combined with other goals that will advance your scholarly endeavors. It is important that you obtain the necessary approvals from the Program Director **prior** to starting your Rotation. Also, it is expected that your Rotation will be well organized in order to be maximally productive. **ENJOY!**

Performance Expectations

	Beginning	Developing	Accomplished	Competent
	Description of identifiable performance characteristics reflecting a beginning level of performance.	Description of identifiable performance characteristics reflecting development and movement toward mastery of performance.	Description of identifiable performance characteristics reflecting near mastery of performance.	Description of identifiable performance characteristics reflecting the highest level of performance.
Medical Knowledge	PL1	PL1, PL2	PL2, PL3	PL3
Patient Care and Procedural Skills	PL1	PL1, PL2	PL2, PL3	PL3
Interpersonal and Communication Skills	PL1	PL1, PL2	PL2, PL3	PL3
Professionalism		PL1	PL2, PL3	PL3
Practice-Based Learning and Improvement	PL1	PL1, PL2	PL2, PL3	PL3
Systems-Based Practice	PL1	PL1, PL2	PL2, PL3	PL3

Milestones assessed on this rotation are:

Professionalism 3: Accountability/Conscientiousness				
Level 1	Level 2	Level 3	Level 4	Level 5
Performs tasks and responsibilities, with prompting	Performs tasks and responsibilities in a timely manner in routine situations	Performs tasks and responsibilities in a thorough and timely manner in complex or stressful situations	Coaches others to ensure tasks and responsibilities are completed in a thorough and timely manner in complex or stressful situations	Creates strategies to enhance others' ability to efficiently complete tasks and responsibilities