RESEARCH ROTATION

THE ROYAL COLLEGE OF PHYSICIANS AND SURGEONS OF CANADA
Objectives of Training and Specialty Training Requirements in Anesthesia

Specific Objectives in CanMEDS Format

OVERALL GOALS
1. Residents will meaningfully participate in the design & execution of a research or Quality Improvement project or education project. Ideally, such participation should be from beginning to end of the project (skills & knowledge).
2. Residents will be advocates for the importance of research in clinical practice (attitudes).
3. Residents will continue to engage in research or QI initiatives as clinicians (sustainability).

ROTATION OBJECTIVES
At the completion of training, the resident will have acquired the following competencies and will function effectively as:

Medical Expert/Clinical Decision-Maker
Residents will:
- Be able to execute an effective search strategy, retrieve references, manage information in reference management software, and cite sources.
- Prepare a research proposal, quality improvement plan or education project.

Communicator
General Requirements
- Dissemination of research plan & results.
- Ability to discuss research, quality improvement or education project in a sophisticated manner.

Specific Requirements
Residents will:
- To the extent possible, prepare a manuscript or abstract to report the results of their research project that conforms to the publication guidelines of an appropriate academic journal.
- Present the results of their ongoing or completed project at the Mac/Western Research Day or another appropriate scientific meeting.
Additional points:

In lieu of a manuscript submitted to an academic journal, the resident may disseminate the results of the research or quality improvement project in another suitable fashion, such as a professional meeting or academic conference.

**Collaborator**

*General Requirements*

- To demonstrate inter- and intra-professional collaboration during the conduct of the research, quality improvement project or education project.

*Specific Requirements*

Residents will:

- Work with other health professionals as necessary to ensure each step of the research, quality improvement project or education project is executed effectively, and with efficient use of resources.
- Cooperate with the Research/Project Supervisor in the timely submission of the project idea, literature review, protocol, and applications for ethics approval.
- Ensure open communication during the Informed Consent process, respecting the patient and their family as valuable partners in the research endeavor.

**Manager**

*General Requirements*

- Data collection and analysis.
- Timely completion of research tasks.

*Specific Requirements*

Residents will:

- Organize research rotation time appropriately and meet submission deadlines in a timely fashion.
- Maintain clear records of research data.
**Health Advocate**

*General Requirements*

- To influence patient-centered outcomes through asking critical research questions and addressing quality improvement or education issues that will have a direct benefit to patients, communities, and health systems.

*Specific Requirements*

Residents will:
- Demonstrate a clear understanding of the benefits their research, quality improvement project or education project may have on patients, communities, and health systems.
- Be able to identify whether ethical approval is necessary for their research project and make application to the appropriate Research Ethics Board, if necessary.

**Scholar**

*General Requirements*

- To understand the process and steps of scientific research, quality improvement or education.
- To demonstrate critical thinking.

*Specific Requirements*

Residents will:
- Formulate a viable research question or project.
- With assistance, residents will identify the components required to design a research, quality improvement or education project to answer their question or clinical problem.
- With assistance, residents will prepare a proposal that addresses rationale for the project, the research hypothesis, methods, data analysis, expected outcomes, and a plan for dissemination of the results.

**Professional**

*General Requirements*

- Demonstrate commitment to the health and well-being of individual patients and populations.
- Respect the obligations of the research rotation.

*Specific Requirements*

Residents will:
- Respect patient confidentiality and autonomy.
- Ensure secure research data if appropriate.
- Respect deadlines for project completion set forth by supervisor and department.

Reviewed: 2012, Dr. Granton