



## 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