Clinical Research Elective
Goals and Objectives

Department of Anesthesiology and Perioperative Medicine
Medical College of Georgia

Overview

Participation in research during residency training can provide valuable experience regardless of ultimate career goals. A Research Elective has been designed to provide protected time for participation in a research project, as well the necessary support in all phases of conception and implementation of these projects, with the expectation that participating residents will take this opportunity to develop new skills, present at national meetings, and write up the results of their research for journal publication.

Course Description

Anesthesiology residents may receive elective credit for up to 2-4 weeks of research time, which need not be contiguous during their residency. This may be augmented with an additional one-month rotation in a subspecialty rotation related to their area of research. It is anticipated that most research projects will take place over the course of several months to two years, with protected elective time allocated for periods of intensive work such as background literature reviews, data collection, and/or data analysis.

Goals and Objectives

The goal of the resident research program is for the resident physician to gain a greater understanding of the scientific method and the acquisition of new knowledge through a mentored research experience. The resident will demonstrate ACGME competencies in medical knowledge, practice-based learning and improvement, interpersonal and communication skills, and professionalism.

Specific learning objectives for the research project are:

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<tr>
<th>Objective</th>
<th>ACGME Core Competency</th>
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<td>To learn to develop a research question.</td>
<td>Medical knowledge</td>
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<td>Practice-based learning</td>
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<td>To learn to access, appraise, and assimilate the current medical literature pertaining to the research topic.</td>
<td>Practice-based learning</td>
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<td>To gain an understanding of the scientific method by designing and writing a research protocol.</td>
<td>Practice-based learning</td>
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<td>To learn about research ethics, informed consent, and the regulatory approvals process by completing HIPAA compliance training and by obtaining necessary approval for the conduct of the proposed research project.</td>
<td>Professionalism</td>
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<td>Systems-based practice</td>
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<td>To conduct the research, and to acquire any skills necessary to do so such as</td>
<td>Practice-based learning</td>
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laboratory techniques and computer skills  To learn basic biostatistics and data analysis as appropriate to the project  Practice-based learning  To demonstrate communication skills by presenting research results at national meetings and to write papers for publication in medical journals  Interpersonal and communication skills

**Elective Requirements**

To receive elective credit for research, the resident must complete the following minimum requirements:

- Identify a faculty research mentor and proposed project.
- Submit a brief (1-2 page) summary of a proposed research project and a research plan with study design and timeline, to be approved by Dr. Agarwal and the research mentor.
- Complete the CITI online training.
- Obtain regulatory approval for the project, as appropriate. In most cases this will include writing and submitting a protocol to the IRB.
- Present findings at a local, national or international conference.
- Submit a final product to the resident research office. This may be an abstract, a poster presentation, the draft of a paper, or a publication.

**Additional Information**

Note that use of the term “research” may be interpreted broadly to encompass a range of scholarly pursuits. Dr. Agarwal will help residents identify potential research mentors and scholarly projects and will personally guide the process to its completion. All activities will be supervised by Dr. Agarwal and any project is subject to revocation if the resident fails to fulfill the goals and objectives of the elective.

**Reading Materials —**

**Evaluations —** Every resident will be evaluated after the rotation.

**Author:** S Agarwal, 11/29/2016