



Department of Orthopaedics and Rehabilitation

Rotation-Specific Objectives for Resident Education	
Rotation:	Research
Resident Year-In-Training:	PGY4

Attending Physicians

1. Brian Johnstone, Ph.D.
2. Lynn Marshall, Sc.D.

Primary Objective

The goal of this rotation is to have a resident dedicate time to a publishable research project. While the rotation is 10 weeks of nonclinical time, the research project should be started at the PGY2 year and continue until graduation. At the end of graduation, the resident should have a manuscript of the research project.

In addition, this rotation is an opportunity for the resident to be involved in the inner workings of the hospital with one quality improvement project performed in conjunction with an ad hoc hospital committee.

Educational Philosophy

The principal goal of the research rotation is for the resident to have dedicated time to working on an individual research project. The process of performing research starts early, before the formal start of this rotation, so that at the time of the rotation, the resident can maximize the time spent. The rotation is also designed to enhance the ability to critically review a scientific article.

In addition, as most of the time spent on this rotation is nonclinical, it is an opportunity for the resident to work on an ad hoc hospital committee to improve the quality of care from a systems standpoint.

Rotation Expectations and Opportunities

10 weeks of the PGY4 year is spent doing either clinical or basic science research. Two faculty advisors are readily available to assist in the design of the research project. There is also a primary faculty mentor for the project that has been involved from conception to conclusion of the research project.

One of these weeks is spent on an ad hoc hospital committee to improve systems based practice in the hospital. An example of one of these committees is the improvement of turnover time in the OR. This committee will be pertinent to the orthopaedic practice.

The resident is also responsible for organizing 2 journal clubs in the 10 weeks. During these 2 journal clubs, further didactics regarding data analysis and critical review will be taught.

Generalized Rotation Goals & Mechanisms

Because research needs to be designed over a period of time, there are certain milestones that are expected of each resident as stated below.

Resident Research Milestones

PGY2	Selection of Mentor and project, presentation to Friday research committee
PGY3	Presentation of hypothesis and critical background literature review to Research Conference
PGY4	Research rotation and 2nd presentation at Research Conference
PGY5	3rd presentation at Research Conference; Presentation at Beal's Lectureship***

- It is the resident's responsibility to notify and ensure that their faculty research mentor is present for each presentation.

***A manuscript of the completed study should be written and submitted to the Research Committee as the chief resident thesis, a residency requirement. The expectation is that this thesis will be submitted to regional and national meetings for presentation and also prepared in manuscript form to be submitted to a peer-reviewed journal.

NOTE: You can do more than one project and can present different ones at Research Conference each time.