

## **Anatomy/Research**

### **Year**

R-2

### **Location**

Miami Valley Hospital (MVH)

### **Duration**

2 Months

### **Faculty**

Michael A. Herbenick, MD

Richard T. Laughlin, MD

### **Description**

#### **Anatomy**

The resident will perform dissection/prosection for anatomy teaching in core lecture series. Presentations will be made each week of the designated body part. Residents should obtain a copy of the anatomy syllabus from Peggy Baldwin to guide dissections. This must include reviewing pertinent OITE questions and adding these to the syllabus.

#### **Research**

The second half of the rotation involves developing a research project. During this time the resident should choose a research project with a faculty mentor. The resident should perform a thorough literature review and present the research design to the research committee at the end of the rotation. The resident will attend the research committee meetings which are held the 3rd Wednesday of each month at 8:00 a.m. in the Orthopaedic Private Practice conference room. By the end of the rotation the project should be designed and ready to apply for funding sources (i.e. DAGMEC, LARF, Specialty Society Grants, MAOA Grants, OREF). Call will be taken at Miami Valley Hospital. All duty hour rules are to be followed.

### **Educational Objectives**

#### **Anatomy**

1. Develop comprehensive knowledge of anatomy and surgical approaches.
2. Gain experience in dissection and surgical approaches.
3. Teach other residents approaches.
4. Become comfortable with the format of OITE questions.

#### **Research**

1. Develop an understanding of the Steps to developing a research project.
2. Do a comprehensive literature search.
3. Synthesize the published information to formulate a research question.
4. Design a project with the goal of answering the research question.
5. Seek funding sources for the project

## Competencies

### Patient Care

Not Applicable

### Medical Knowledge

- Anatomy
  - Learn orthopaedically relevant anatomy through dissection.
  - Teach surgical approaches and gross dissection to other resident in the core lecture series.
- Research: Become thoroughly knowledgeable of the topic chosen so that a viable research question can be formulated.

### Interpersonal and Communication Skills

- Demonstrate interpersonal and communication skills that result in effective information exchange in teaming with PhD's, graduate students and collaborative physicians to work as a team in developing a research project.
- Use effective listening skills

### Professionalism

- Be accountable for dissections; have them done well and on time so the presentation is worthwhile to the entire group.
- As a teacher of anatomy, be aware of the other residents; needs and knowledge deficits.
- Research – must be honest and forthright in report results.
- Must adhere to deadlines and manage the research team so common goals can be obtained.

### Practice-Based Learning and Improvement

- Anatomy
  - Relate the dissection to real life scenarios through the OITE questions and clinical situations that have arisen.
  - Locate evidence supporting one surgical approach over another in a given situation.
  - Use information technology (PowerPoint) to demonstrate anatomy.
  - Facilitate learning other residents and students.
- Research
  - Demonstrate how your research question serves a purpose of furthering the field by answering a specific research questions.
  - Facilitate the learning of other members of the research team.
  - Use information technology (internet, literature search, Orthopaedic Knowledge Online etc.) to complete literature search.

### Systems-Based Learning

- Anatomy: Not Applicable
- Research
  - Understand how your research practice affects other professionals and how other professionals' will interpret your project.
  - Be cost effective in budget and seek out funding sources.
  - Learn how to partner with other scientists to attain a common goal.

## General Schedule

- **Monday through Friday:** Conference 7:00-8:00 a.m. (6:30 a.m. Friday at CMC)
- **Research Meeting:** 3rd Wednesday monthly/MVH Conf Room Suite 2200
- **Dissection:** Contact Dan Nolan – Research Lab MVH  
Obtain cadaver and access to Anatomy Lab.

## Reference List

- **Anatomy Syllabus:** Obtain from Peggy Baldwin, Residency Program Coordinator.
- **OITE:** Review Anatomy questions and add to syllabus.
- **Hoppenfeld:** Orthopaedic Surgical Approaches
- **Grants:** Anatomy Dissector
- **Research:** As directed by mentor

## Evaluation

- Review goals and objectives with Dr. Herbenick and Dr. Laughlin.
- End of rotation evaluation turned into Peggy Baldwin, Resident Program Coordinator.
- Duty Hours and Op Log must be up-to-date at end of rotation.