

Orthopedic Trauma Service
PGY 2 - 5
Rotation Specific Objective (RSO)

Department of Orthopedics and Rehabilitation
University Campus

The purpose of this RSO is to outline and clarify the objectives of the Orthopaedic Trauma Service (OTS) rotation at the University campus. This document is meant to serve as a guide to the educational objectives of the OTS and to delineate the expectations and responsibilities of the Resident and the Attending Faculty. It is imperative that these educational experiences comply with the concepts of the core competencies outlined by the ACGME and mandated by the Residency Review Committee (RRC).

1. Medical Knowledge

The resident is expected to demonstrate an analytic approach to clinical problems and apply basic and clinical science to solving problems.

2. Patient Care

The resident is expected to provide care that is compassionate, appropriate and effective. This care is to be based on the most current scientific information and to incorporate the knowledge of the other health professionals as appropriate.

3. Practice-Based Learning Improvement

The resident is expected to analyze clinical results and use methodologies for on going improvement. Appropriate use of information technology, the literature, and statistical analysis are tools to be employed in the endeavor.

4. Interpersonal Communication

The resident is expected to function effectively as a member of the health care team and demonstrate skillful information exchange with patients, fellow residents and faculty.

5. Professionalism

The resident is expected to act at all times in an ethical manner. The resident will demonstrate a commitment to excellence and treat all patients with respect, compassion and the right to privacy.

6. System-Based Practice

The resident is expected to advocate for quality medical care. In this contest, the resident must practice cost effective care without compromising quality

These basis competencies are to be taught by staff role modeling and by staff serving as preceptors in surgery, clinics, and office settings. Other effective tools to be employed are conferences, case presentations, and day-to-day interaction with the attending staff. The resident will meet with faculty members mid rotation to assess his/her progress toward the RSP and address any deficiencies. Faculty observation and an end of rotation evaluation form will monitor progress.

Orthopedic Trauma Service PGY 2 - 5

The educational objective for the PGY 2 resident is to build upon and enhance the orthopaedic and basic science knowledge gained during the introductory PGY 1 year. The goal is for the resident to develop knowledge and skills to assess and treat complex orthopaedic problems. The resident will learn to assess and manage the pre-operative and immediate post-operative concerns for a variety of orthopedic conditions. The resident will learn the surgical skills and have hands on experience in managing moderately complex orthopaedic surgical cases.

The knowledge to be mastered in order to achieve these objectives includes:

- Focused orthopedic history and specific diagnostic test on the orthopaedic physical exam.
- Interpretation of skeletal x-ray, CT MRI and bone scan.
- Closed reduction techniques for all fractures and dislocations.
- Traction techniques, including skeletal traction

- Trauma care including open reduction internal fixation, percutaneous fixation and external fixation of long bones.
- Pain management
- Post-operative infection
- Wound problems of dehiscence, hematoma and seroma
- Prophylaxis, diagnosis, treatment of deep venous thrombosis and pulmonary embolism
- Recognition of adult respiratory distress syndrome; fat embolism
- Compartment syndrome
- Knowledge of fracture classification system and their prognostic relevance.

The expectations to be met by PGY 2 Resident on the OTS rotation are:

- The resident will be assigned to the OTS that will include elective reconstructive and trauma patients. The resident will make morning and afternoon rounds on these patients.
- The resident is to assist in the operating room as assigned by the chief resident.
- The resident will see orthopaedic consults as assigned by the chief resident or attending.
- The resident will take in house night call on a rotating basis. The resident will seek advice from the senior resident or attending as deemed necessary. The resident will notify the responsible attending of all admissions.
- The resident will attend all University teaching conferences including Grand Rounds and Core Curriculum. Surgical cases that begin during the conference will be started by the attending physician.
- The resident will assist in the teaching of medical students during their rotation.
- Compliance with Massachusetts State Health Department Code Regulations regarding resident work hours is mandatory. The resident should arrange appropriate transfer of patient care when he/she must leave hospital.

Orthopedic Trauma Service PGY 3

The educational objective for the PGY 3 resident is to further build upon the orthopaedic and basic science knowledge gained during the PGY 2 year and to develop the resident's surgical skills in common orthopedic conditions to a level appropriate for a general orthopedist. The goal is for the resident to become proficient in the diagnosis and surgical and non-surgical management of all of the common orthopaedic trauma conditions seen in a general orthopaedic practice.

The knowledge to be mastered to achieve these objectives includes:

- Focused orthopedic history and use of specific diagnostic tests on orthopedic physical exam.
- Advanced interpretation of skeletal x-ray, CT, MRI and bone scan.
- Closed reduction techniques for all long bone fractures and dislocations.
- Indications for open reduction and internal fixation of common long bone fractures.
- Knowledge of the types of orthopedic equipment and the cost effective use of the equipment.
- Knowledge of the surgical approaches to long bone and joints for fracture fixation and joint replacement.
- Diagnosis and management of post-operative complications including joint infections, wound problems, DVT, Pulmonary embolism and compartment syndrome.
- Management of peri-operative blood loss.
- Collaboration with consultant physicians and allied health personnel.
- Learn the post-operative and long-term rehabilitation.

The expectations to be met by the PGY 3 Resident on the OTS rotation are:

- The resident will be assigned to the adult service that will include reconstructive and trauma patients.
- The resident is to assist in the operating room as assigned by the chief resident.
- The resident will take in house night call on a rotating basis. The resident will notify the responsible of all admissions.

- The resident will attend all University teaching conferences including Grand Rounds and Core Curriculum. Surgical cases that begin during the conferences will be started by the attending.
- The resident will attend and actively participate in the Friday morning Fracture Conference.
- The resident will see Orthopedic consults as assigned by the chief resident or attending.
- Compliance with Massachusetts State Health Department Code Regulations regarding resident work hours is mandatory. The resident should arrange appropriate transfer of patient care when he/she must leave the hospital.

**Orthopedic Trauma Service
EDUCATION OBJECTIVES**

PGY 5

The educational objective for the PGY 5 resident is to be fully competent in the diagnosis, conservative care, and surgical management of all conditions encountered in a general orthopaedic practice. The goal is to develop the resident's orthopaedic knowledge and surgical skills to a level that the resident is able to embark upon an independent general orthopaedic practice.

The knowledge to be mastered to achieve these objectives includes:

- Through knowledge of the orthopedic literature including the most recent techniques and equipment.
- Knowledge of all surgical approaches to the extremities.
- Technical proficiency in all common surgical procedures of the extremities.
- Ability to be a team leader and assume responsibility
- Ability to relate to and instruct and be a resource for junior residents
- All of the basic knowledge listed for PGY 1-4

The expectations to be met by the PGY 5 Resident on the OTS rotation are:

- The resident will be assigned to the adult service that will include reconstructive and trauma patients

- The resident will be responsible for running the service. He/she will assign residents to surgical cases and floor consults.
- The resident will participate in planning with the attending for complex cases and be responsible for having proper fixation equipment, instruments, and prostheses available in the operating room.
- The PGY 5 resident will oversee all activities of the junior residents. He/she will serve as a consultant and resource for the junior residents.
- The resident will attend all University teaching conferences including Grand Rounds and Core Curriculum. Surgical cases that begin during the conference will be started by the attending.
- The resident will attend all Friday morning Fracture conferences.
- The resident will be expected to cite the relevant literature in support of treatment recommendations.
- The PGY resident will be responsible for any clinic surgery with the responsible attending.
- The resident will take Chief call at the University as assigned by the University.
- Compliance with Massachusetts State Health Department Code Regulations regarding resident work-hours is mandatory.
- The resident should arrange appropriate transfer of patient care when he/she must leave hospital.
- The PGY 5 resident will be responsible for assuring that all University adheres to the work hour's regulations.