

Revised 2/8/10

Columbia/NYOH Department of Orthopaedics
Orthopaedic Traumatology Service Competency Requirements

Patient Care

Faculty will evaluate the resident’s ability to obtain an H&P and appropriate radiographs and formulate a treatment plan for outpatients and inpatient consults.

In the operating room, the faculty will evaluate the resident’s familiarity with the patient, the indications for surgery, understanding of the surgical treatment plan, ability to execute the operative plan, and understanding of the post-operative treatment plan.

Residents will be evaluated by mid-cycle and end of rotation faculty feedback, on-the-fly faculty feedback, case presentations, operative case log, 360 degree surveys, and self assessment.

PGY-2 Resident Goals & Objectives:	PGY-3 Resident Goals and Objectives	PGY 4,5 Resident Goals and Objectives
<p>The resident will:</p> <ol style="list-style-type: none"> 1. Effectively able to evaluate the polytrauma patient or suspected polytrauma patient on presentation to the trauma resuscitation unit. 2. Effectively detect abnormalities on physical examination and develop a plan for further investigation of diagnosis. 3. Effectively demonstrate that he/she can competently: <ol style="list-style-type: none"> a. Obtain a comprehensive history b. Perform any relevant physical examination including a thorough secondary survey c. Identify appropriate radiographic imaging studies d. Formulate a differential diagnosis and make an accurate final diagnosis e. Define secondary conditions that require attention from a diagnostic standpoint in the context of primary diagnoses (i.e. compartment syndrome potential in the patient with tibia fracture and traumatic brain injury) 	<p>The resident will:</p> <ol style="list-style-type: none"> 1. Demonstrate mastery of all PGY-2 level goals and objectives. 2. Demonstrate understanding of the anatomy and surgical plan for: <ol style="list-style-type: none"> a. Open reduction and internal fixation of distal radius fractures and simple hand injuries b. ORIF of elbow injuries including olecranon fracture, Monteggia fracture, and supracondylar humerus fractures. c. ORIF of simple proximal humerus fractures d. Intramedullary nail fixation of complex and proximal 	<p>The resident will:</p> <ol style="list-style-type: none"> 1. Demonstrate mastery of all PGY 2,3 level goals and objectives 2. Demonstrate understanding of the anatomy and surgical plan for: <ol style="list-style-type: none"> a. ORIF of complex proximal humerus fractures b. ORIF of complex peri-articular elbow fractures c. ORIF of intra-articular distal radius fractures d. ORIF of complex

<ul style="list-style-type: none"> f. Outline the natural history of the specific condition with and without surgical treatment g. Describe appropriate non-operative treatment options (if they exist) h. Describe appropriate operative treatment options (if they exist) i. Describe possible complications of non-operative and operative treatment <p>4. Establish treatment priorities in the multiply injured patient including the timing of treatment of open fractures, stabilization of long-bone fractures and stabilization of intra-articular fractures.</p> <p>5. Be able to perform simple invasive procedures including:</p> <ul style="list-style-type: none"> a. Joint aspirations and arthrocentesis procedures to assess communication of the joint with open wounds. b. Hematoma block c. Closed reduction of distal radius fracture d. Closed reduction of shoulder dislocation e. Closed reduction of elbow dislocation f. Closed reduction of hand and wrist injuries g. Closed reduction of hip and knee dislocations h. Closed reduction of foot and ankle injuries i. Insertion of distal femoral and proximal tibial traction pins j. Application of a pelvic binder <p>6. Demonstrate understanding of anatomy and surgical plan for:</p> <ul style="list-style-type: none"> a. Debridement of open wounds and open fractures b. Debridement of traumatic arthrotomies c. Fasciotomies for compartment syndrome of arm, forearm, leg and thigh d. Intramedullary nail fixation of simple femoral and tibial fractures e. Plate fixation of humerus and forearm fractures 	<p>femoral fractures</p> <ul style="list-style-type: none"> e. Intramedullary nail fixation of complex proximal and distal tibial fractures. f. ORIF of ankle fractures 	<p>hand injuries</p> <ul style="list-style-type: none"> e. ORIF of simple acetabulum fractures f. ORIF of simple pelvic ring injuries g. ORIF of intra-articular fractures about the knee h. ORIF pilon fractures i. ORIF talus and calcaneal fractures j. ORIF of complex midfoot and forefoot injuries.
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Medical Knowledge

Faculty will evaluate the resident’s knowledge on an ongoing basis in the clinic and operating room.

Residents will be evaluated by mid-cycle and end of rotation faculty feedback, on-the-fly faculty feedback, Indications conference assessments, case presentations, journal club performance, OITE scores, 360 degree surveys, self assessment.

PGY 2 Resident Goals and Objectives:	PGY 3 Resident Goals and Objectives:	PGY 5 Resident Goals and Objectives:
<p>The resident will:</p> <ol style="list-style-type: none"> 1. Demonstrate knowledge of the indications for surgical procedures such as ORIF of lower extremity and upper extremity fractures. 2. Demonstrate understanding of the relevant surgical anatomy of the lower extremity 3. Demonstrate an understanding of simple invasive procedures for patients such as injection/aspiration, abscess drainage, closed reduction of simple fractures 4. Demonstrate an understanding of the classic and contemporary literature pertaining to lower extremity reconstruction through self-guided study and participation in Journal club 5. Understand basic principles of external and internal fixation 	<p>In addition to obtaining and maintaining competency in the PGY-1 goals and objectives, the resident will:</p> <ol style="list-style-type: none"> 1. Demonstrate an understanding of criteria for establishing stability in the context of a pelvic ring injury 2. Demonstrate knowledge of the indications for operative treatment of pelvic and acetabulum fractures 3. Demonstrate an understanding of management decision making processes after traumatic musculoskeletal injury including: <ol style="list-style-type: none"> a. Indications for and duration of post-operative antibiotic treatment b. Definition of weight bearing restrictions based on injury patterns and treatments employed c. Indications for physical therapy including employment of various treatment modalities 4. Demonstrate an understanding of the process of diagnosis and treatment of basic post-traumatic disorders including: <ol style="list-style-type: none"> a. Trochanteric bursitis b. Painful hardware c. Superficial infection d. Deep wound infection e. Compartment syndrome 	<p>In addition to obtaining maintaining competency in the PGY-3 goals and objectives, the resident will:</p> <ol style="list-style-type: none"> 1. Demonstrate an ability to define a musculoskeletal operative emergency, develop an appropriate pre-operative plan and begin the appropriate surgical procedure. 2. Demonstrate an understanding of the process of diagnosis and treatment of complex post-traumatic disorders including <ol style="list-style-type: none"> a. Osteomyelitis b. Non-union c. Failure of Fixation d. Heterotopic ossification e. Post-traumatic arthritis 3. Demonstrate an advanced understanding of pathology, surgical anatomy and operative exposures 4. Assume a leadership role in planning patient care (including assignment of cases in the operating room) and teaching conferences 5. Understand principles of locking/fixed angle internal fixation

Practice Based Learning and Improvement

Residents will be evaluated based upon awareness of background and recent advances in common treatments, surgical indications, and surgical principles through participation in daily conference including morning trauma rounds, detailed case presentations, weekly didactic trauma conferences, monthly M&M conference, and Journal club.

Residents will be evaluated by mid-cycle and end of rotation faculty feedback, on-the-fly faculty feedback, Indications conference assessments, case presentation evaluation, journal club performance, M&M assessments, 360 degree surveys, self assessment.

PGY 2 Resident Goals & Objectives:	PGY 3 Resident Goals & Objectives	PGY 5 Resident Goals & Objectives:
<p>The resident will:</p> <ol style="list-style-type: none"> 1. Demonstrate familiarity and understanding of reading materials describing the systemic and specific conditions listed above including those assigned from: <ol style="list-style-type: none"> a. Skeletal Trauma b. OKU Trauma c. AO Manual 2. Accurately locate, appraise and assimilate evidence from scientific studies relating to the patient’s orthopaedic condition. This requires knowledge of the pertinent recent literature as may be obtained in: <ol style="list-style-type: none"> a. American and British JBJS b. Journal of Orthopaedic Trauma c. Journal of Trauma d. JAAOS 	<p>In addition to obtaining competency in the PGY-2 goals and objectives, the resident will:</p> <ol style="list-style-type: none"> 1. Demonstrate proficiency in reviewing the pertinent literature relative to weekly case presentations 2. Demonstrate proficiency in critical review of weekly publications selected for journal review 	<p>In addition to obtaining competency in the PGY-3 goals and objectives, the resident will:</p> <ol style="list-style-type: none"> 1. Apply critical thinking in the appraisal of clinical studies read in the peer reviewed literature as well as in the treatment of patients 2. Direct the education for the more junior residents on the service 3. Prepare and organize the weekly case presentation and journal review conferences

Interpersonal & Communication Skills

See common program competencies

Professionalism

See common program competencies

Systems-based Practice

See common program competencies