Revised 2/8/10

Columbia/NYOH Department of Orthopaedics
Hand 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, 3 Resident Goals & Objectives:	PGY 4,5 Resident Goals and Objectives
The resident will: 1. Effectively able to evaluate the following conditions affecting the hand and elbow via a thorough H&P: a. Carpal Tunnel Syndrome b. Cubital Tunnel Syndrome c. Trigger Finger d. DeQuervain's tendonitis e. Epicondylitis f. Ganglion Cysts g. Dupuytren's contracture h. Distal Radius Fractures i. Metacarpal Fractures j. Phalangeal Fractures k. Scaphoid Fractures l. Gamekeeper's injury m. DISI and VISI and the idea of carpal 'instability' n. Nerve injuries and how to diagnose and fix o. Flexor tendon injuries p. Extensor tendon injuries	The resident will: 1. Demonstrate mastery of all PGY 2,3 level goals and objectives 2. Demonstrate understanding of the anatomy and surgical plan for: a. Elbow fusion b. Elbow interposition c. Total elbow arthroplasty d. Elbow ligament reconstruction e. Arthroscopic elbow osteocapsular arthroplasty f. Vascularized free fibula grafting g. Microsurgical techniques h. Advanced fracture fixation methods i. Tendon transfers 3. Demonstrate a thorough understanding of the following rarer conditions a. Kienbock's disease b. Tumors of the hand c. Rheumatoid hand

q. Fingertip Injuries r. Hand infections s. Thumb CMC Arthritis 2. Demonstrate a general understanding of the following rarer conditions a. Kienbock's disease b. Tumors of the hand c. Rheumatoid hand d. Tendon transfers e. Congenital hand problems 3. Effectively demonstrate that he/she can competently: a. Obtain a comprehensive **history** b. Perform any relevant condition-specific **physical examination** c. Identify appropriate radiographic **imaging studies** d. Formulate a differential diagnosis and make an accurate final **diagnosis** e. Outline the **etiology**, or possible etiologies of the specific condition 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 j. Outline the **rehabilitation program** involved in non-operative and operative treatment k. Outline the **prognosis** of non-operative and operative treatment in order to evaluate the following specific conditions affecting the upper limb 1. Distal Humeral Fractures 2. Coronoid fractures 3. Radial head fractures 4. Olecranon fractures 5. Osteoarthritis of the elbow 6. Elbow collateral ligament injuries 7. Elbow contractures 8. Elbow dislocations 9. Lateral/medial epicondylitis 10. Cubital tunnel syndrome 11. Radial/ulnar shaft fractures 12. Distal radius fractures	d. Tendon transfers e. Congenital hand problems 4. Demonstrate knowledge of the surgical approach and anatomy for all operative procedures including elective and emergent cases.

13. Ulnar impaction syndrome 14. Acute TFCC tears 15. Osteoarthritis of the wrist 16. Intercarpal ligament injuries 17. Ganglion cysts 18. DeQuervain's tenovaginitis 19. Intersection syndrome 20. Trigger fingers 21. Carpal Tunnel Syndrome 22. Carpal fractures 23. Ulnar tunnel syndrome 24. Wartenberg's syndrome 25. Cerebral Palsy 26. TBI/stroke 27. Tendon laceration 28. Nerve laceration 29. Basal joint arthritis 30. Metacarpal/phalangeal fractures 31. Mallet finger 32. Boutoniere deformity 33. Swan neck deformity 34. Dupuytren's contracture 35. Syndactyly 36. Polydactyly 37. Amputation 38. Replantation 4. Be able to perform simple invasive procedures including: a. Elbow joint aspiration/injection b. Wrist joint aspiration/injection c. Basal Joint injection d. Carpal tunnel injection e. Trigger finger injection f. DeQuervain's injection g. Hematoma block 5. Demonstrate competence in the operating room to: a. Position patients for elbow procedures b. Set up a hand table	

c. Prep and drape of the operative field d. Perform initial surgical dissection e. Close the surgical wound f. Apply post-operative dressing 6. Demonstrate understanding of anatomy and surgical plan for: a. Arthroscopic/open elbow release b. Elbow ligament repair/reconstruction c. Tennis elbow surgery d. Distal biceps repair e. Biceps tenodesis f. Radial head replacement g. Humeral shaft fracture fixation h. Distal humeral fracture fixation i. Radial head fracture fixation j. Olecranon fracture fixation k. Coronoid fracture fixation l. Radial/ulnar shaft fracture fixation m. Distal radial fracture fixation n. Scaphoid fracture fixation o. Percutaneous pinning of metacarpal and phalangeal fractures p. Carpal tunnel release q. Cubital tunnel release r. DeQuervain's release s. Trigger finger release t. Thumb collateral ligament repair/reconstruction u. Scapholunate ligament repair/reconstruction v. TFCC debridement/repair	

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 performance, case presentations, journal club, OITE scores, 360 degree surveys, self assessment.

PGY 2,3 Resident Goals and Objectives:	PGY 4,5 Resident Goals and Objectives:
The resident will: 1. Demonstrate knowledge of the indications for surgical procedures such as arthroscopy of the elbow and wrist, total elbow, etc… 2. Demonstrate understanding of the relevant surgical anatomy of the hand and elbow 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 hand and elbow reconstruction through self-guided study and participation in Journal club	In addition to obtaining competency in the PGY 2,3 goals and objectives, the resident will: 1. Possess knowledge and demonstrate expertise in the discussion of the natural history of the systemic and specific conditions listed above 2. Demonstrate proficiency in the application of all splints and casts 3. Demonstrate an advanced understanding of pathology, surgical anatomy and operative exposures 4. Assume a leadership role in planning patient care and teaching conferences

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 weekly Indications conference, morning trauma rounds, subspecialty conference, 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 performance, case presentations, journal club, M&M assessments, 360 degree surveys, self assessment.

PGY 2,3 Resident Goals & Objectives:	PGY 4,5 Resident Goals & Objectives:
The resident will: 1. Demonstrate familiarity and understanding of reading materials describing the systemic and specific conditions listed above including those assigned from: a. Hand Surgery Update 3 b. Green's Operative hand Surgery c. Morreys The Elbow d. AAOS OKO online hand and elbow topics 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: a. American and British JBJS	In addition to obtaining competency in the PGY 2,3 goals and objectives, the resident will: 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 Indications conference for hand conference

b. Journal of Hand Surgery c. Journal of the AAOS 3. Prepare and organize the weekly pre-operative conference for hand service	

Interpersonal & Communication Skills
See common program competencies

Professionalism
See common program competencies

Systems-based Practice
See common program competencies