

# University of South Florida

## Hand Orthopaedics – PGY 2

### Competency Based Goals & Objectives

**Competency 1- Patient Care:** Provide patient care that is compassionate, and effective for the treatment of health problems and the promotion of health. The resident demonstrates this in the following manner:

1. Capable of performing and presenting a thorough and accurate patient history and physical examination for the patient presenting with hand/upper extremity complaints. Included are to be chief complaint, history of time of onset of injury or condition, mechanism of injury or functional difficulties produced by condition as well as, past medical, surgical and social history.
2. The physical examination should include a general examination of the patient regarding those conditions or injury associated problems, which may play a role in the patient's functional status of the hand/upper extremity. Examples include:
  - a. Evidence of head injury, stroke, Parkinson's disease, cerebral palsy and other neurologic problems.
3. Demonstrate proficiency in upper extremity/hand exam:
  - a. Identification of peripheral nerve compression problems including carpal, cubital and radial tunnel problems, tendonitis/tendonopathy including stenosis of first dorsal compartment and proximal annular ligament areas, as well as, arthritic problems.
4. Perform basic invasive procedures for patients, which include injections for problems of trigger finger, carpal tunnel and first metacarpal-carpal arthritic conditions.
5. Demonstration of knowledge and complications of non-operative treatment, such as, the use of anti-inflammatory medications, and splinting for basic hand surgery problems.
6. Develop initial management plan for a patient with hand related injuries and or complaints. This includes:
  - a. Management plans for animal/human bites
  - b. Infections
  - c. Common tendon stenosis problems
  - d. Finger tip injuries and amputations
  - e. Basic fractures of the hand, Nerve compression syndromes including carpal, cubital and radial tunnel syndrome presentations.
7. Demonstrate and perform frequent procedures of hand such as carpal tunnel release , trigger finger release, release of first dorsal compartment and excision of carpal ganglion to include both dorsal and volar presentations. These procedures are to be done in the presence of a chief resident or attending physician.

**Competency 2 – Medical Knowledge:** Understand the scope of established and evolving biomedical, clinical, epidemiological and social-behavioral knowledge; the ability to acquire, critically interpret and apply this knowledge in patient care.

1. Expected at weekly resident conferences and grand rounds presentations.
2. Preparation of presentation of patient care and topic presentations.
3. Demonstrate commitment to self directed learning and effective communication.
4. Understanding of the scientific basis of diagnosis and treatment of the commonly encountered hand conditions.
5. Indications for basic surgical procedures and hand surgery including:
  - a. Carpal tunnel release

- b. Trigger finger release
  - c. First dorsal compartment release
  - d. Excision of dorsal as well as volar ganglions.
6. Demonstrate knowledge of non-operative treatment of those conditions as indicated:
    - a. Appropriate use of heat/cold modalities
    - b. Splinting
  7. Successful completion of the Orthopaedic In-service Training Exam.
  8. Participation in journal club to include clear understanding of evidenced based studies including meaning of varying levels, application in clinical settings and proper utilization for patient care activities.
  9. Awareness of basic text resources for hand surgery and completion of assigned reading relating to care of basic hand conditions.

**Competency 3 – Communication Skills:** Demonstrate interpersonal and communication skills that result in information exchange and partnering with patients, their families and professional associates.

1. Demonstrate interpersonal and communication skills that result in effective information exchange with the patient, their families and caregivers, as well as, other physicians and members of the healthcare team.
2. Communications are expected to be accomplished with clarity and at a level, which assists the patient in decision processes.
3. Identification of those mechanisms and skills needed to properly interact with the culturally diverse patient of our society.
4. Completion of the Academy learning vehicles regarding cultural diversity.
5. At all times, demonstrate honest, open, civil and effective communication with patients, staff and colleagues, including medical students, residents and attending.
6. Gain needed information from patients and caregivers by enhancement of listening and questioning skills.
7. Explanations provided are to be a part of each patient encounter.
8. Effective communication through dictations, as a part of the patient record. Demonstrate computer skill level resulting in proper order entry and other aspects of electronic medical record plus penmanship capabilities of such nature that communications are accomplished with clarity in all areas.
9. Demonstrate an ability to work in cooperative manner with other members of the team, including medical assistants, fellow residents and hand therapists.

**Competency 4 – Practice Based Learning and Improvement:** Demonstrate knowledge, skills and attitudes needed for continuous self-assessment, using scientific methods and evidence to investigate, evaluate and improve one's patient care practice.

1. Demonstration of knowledge in-study designs and statistical methods used in appraisal of clinical studies.
2. Obtain and utilize information from patient populations and the larger populations from which their individual patients are a part.
3. Proper preparation for regular attendance at weekly meetings and monthly journal clubs.
4. Proficiency demonstrated in using online searches to identify and evaluate educational materials especially of peer review reference articles relevant to individual patient care.
5. Demonstration of involvement in the learning process of students and other healthcare professionals.
6. Awareness and understanding of established guidelines in Sleep, Alertness, Fatigue, Education in Residency.

7. Demonstrate basic understanding of assessment tools for hand surgical patient results for example, DASH instrument including value and limitation of the instruments.

**Competency 5 – Professionalism:** Demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles and sensitivity to diversity.

1. Demonstrate commitment to carry out professional responsibilities and adherence to ethical principles and standards taken into account with sensitivity to diverse patient populations.
2. Utilize and successfully complete the Academy's vehicle relating to cultural diversity.
3. Obtaining an informed consent from a patient, this includes the presentation of the non-surgical and surgical aspects of the care of the patient's condition including the more common complications and rehabilitation aspects of the care being utilized.
4. Understanding of value and importance of patient confidentiality along with the varying mandatory aspects of HIPPA regulations.
5. Demonstrate understanding regarding the concept of professional liability in an academic medical center.
6. Demonstrate consistent learning process anticipated to be lifelong in preparation for individual case presentation, involvement in surgical interventions and other patient care activities being a part of the process.

**Competency 6 – System-Based Practice:** Understand how to practice quality health care and advocate for patients within the context of the healthcare system.

1. Regular attendance and presentations at Morbidity and Mortality conference with focus on prevention of complications.
2. Develop additional knowledge base as to how to advocate for patient in obtaining funding for care of specific problems with which the patient presents.
3. Demonstrate understanding as to role of advocacy on part of the treating physician for quality patient care and assistance to patient in dealing with the complexity of the healthcare system.
4. Demonstration of competency in coordination of all aspects of peri-operative and post-operative care including rehabilitation/physical/hand therapy.
5. Demonstrate an understanding of manner of which patient care and other professional practices have impact on healthcare professionals, healthcare organizations, society as a whole and interaction of these elements/systems with one's practice of orthopaedic/hand surgery.
6. Demonstration of knowledge relating to cost effective healthcare and resource allocation done properly to avoid compromise of quality of patient care.
7. Initial opportunity to gain understanding of practice of medicine in various healthcare systems.
8. Initial overview and basic understanding of impact of correct coding associated with patient office visits and surgery.
9. Demonstrate initial understanding of the role of healthcare managers, providers, involvement in the optimal care and management of the patient's overall care related to optimal recovery of function in given social settings.
10. Demonstrate competency in documentation, functional impairment assessment, knowledge of local or state laws related to workers compensation and disability.

**\*Reference - Recommended Reading Material**

Hand Surgery Update 2, Orthopaedic Knowledge Update Series-AAOF  
Green's Operative Hand Surgery 4<sup>th</sup> or 5<sup>th</sup> edition  
Surgical Anatomy of the Hand and Upper Extremity – Doyle & Botte  
Principles of Hand Surgery and Therapy, Trumble, 2000  
Rockwood & Green Fractures in Adults  
Rockwood & Green Fractures in Children