

## **Hand Surgery (TGH – 4 months)**

### PGY-5

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Goal: The resident will gain experience and knowledge of surgery of the hand. The resident will demonstrate operative competence in performing microsurgical reconstructive techniques. The resident will demonstrate an understanding of the pre-operative evaluation and surgical planning as it relates to hand surgery.

### **PATIENT CARE**

- a. Demonstrate an understanding of the management of hand surgery including pre-operative workup, operative plan and technique, and post-operative care in the treatment of congenital deformities, trauma, acquired conditions and nerve pathology.
- b. Demonstrate knowledge of diagnosis and operative planning including radiographic evaluation.
- c. Demonstrate an understanding of the pre-operative evaluation and surgical planning for the management of nerve injuries to the upper extremity.
- d. Demonstrate appropriate microsurgical techniques for various nerve injuries requiring repair
- e. Demonstrate an appreciation for the psychosocial concerns of the patient.
- f. Able to prescribe medication for post-operative pain after surgery/injury.
- g. Able to provide post-operative instructions and provide a mechanism for patients to address post-operative problems.
- h. Demonstrate knowledge and ability to utilize post-operative/post-injury therapy effectively to optimize recovery.

### **MEDICAL KNOWLEDGE**

- a. Demonstrate an understanding of the pre-operative evaluation, pre-operative planning and surgical options necessary for management of congenital and acquired diseases and defects of the hand and upper extremity to include burns, trauma, infection, arthritic conditions, vascular conditions, etc.
- b. Demonstrate an understanding of the pre-operative evaluation and surgical planning for the management of nerve injuries to the upper extremity.
- a. Demonstrate knowledge in recognizing and treating complications timely and appropriately.

### **PRACTICE BASED LEARNING/IMPROVEMENT**

- a. Demonstrate operative competence in performing microsurgical reconstructive techniques in plastic surgery/hand surgery.
- b. Demonstrate operative competence in performing free tissue transfer to the upper extremity.
- c. Demonstrate appropriate microsurgical techniques for various nerve injuries requiring repair.

- d. Demonstrate progression in obtaining knowledge in the work-up, treatment, and post-operative care in a variety of hand conditions including congenital defects, trauma, acquired conditions, and nerve injuries.
- e. Participate in the performance improvement process including assessment of his/her outcomes.
- f. Able to critically review medical literature and participate in evidence-based discussions that may lead to improvements in the practice of surgery.

#### INTERPERSONAL AND COMMUNICATION SKILLS

- a. Communicate clearly with patients, their families, and the medical staff.
- b. Demonstrate effective communication with all members of the operating room team.
- c. Communicate effectively with patients and their families and be able to discuss risks, benefits, and alternatives.
- d. Demonstrate knowledge, skills, and proficiency at communicating and coordinating care with multiple discipline specialties.

#### PROFESSIONALISM

- a. Demonstrate an appreciation for the psychosocial concerns of the patient.
- b. Be aware of emotional issues associated with various surgical procedures.
- c. Ensure involvement in the post-operative care of patients and create a positive public image.
- d. Demonstrate the ability to maintain his or her composure during stressful clinical situations.
- e. Acknowledge the anxieties of patients and their families and answer questions and allay anxiety.
- f. Be aware of and sensitive to a variety of cultures and religious beliefs.
- g. Expected to adhere to the highest ethical standards and the principle "the needs of the patient come first".
- h. Gain and utilize skills for discussing and communicating critical issues/problems.

#### SYSTEMS BASED PRACTICE

- a. Be aware of peri-operative costs of surgery in a comprehensive manner.
- b. Understand when it is appropriate to seek help through appropriate consultation with colleagues.
- c. Demonstrate an understanding and appropriate utilization of the electronic patient information system.
- d. Understand methods to practice cost-effective health care while providing the highest quality of care for their patients.
- e. Utilize social/ancillary systems to effect care that is timely, efficient, and effective.
- f. Understand and participate within the structure and function of the multidisciplinary hand care team/service and utilize all members to deliver and improve care/outcomes effectively and efficiently.