

Plastic Surgery (TGH – 4 months)

PGY-6

Goals:

1. The resident will demonstrate understanding of the techniques for management of plastic surgery of the breast.
2. The resident will demonstrate appreciation of the concerns in the management of both the operative and non-operative aesthetic patient.
3. The resident will demonstrate competency in the techniques of aesthetic surgery of the trunk and extremities.
4. The resident will demonstrate understanding of the techniques of microsurgical reconstruction.
5. The resident will perform the techniques of microsurgical reconstruction as they apply to oncologic reconstruction.
6. The resident will appreciate the techniques of reconstructive surgery as an alternative to microsurgical reconstruction for post-mastectomy and oncologic patients.
7. The resident will demonstrate understanding of and competency in the treatment of facial injury deformities and their care, including secondary deformities.

PATIENT CARE

- a. Management of craniomaxillofacial trauma including assessment and operative and non-operative treatment of maxillary, mandibular, orbital, nasal, and frontal sinus fractures is learned during this rotation.
- b. Obtain experience in the management of acute burns including the principles of acute resuscitation and early surgical management and the management of chronic sequelae and the deformities that result from burns. This includes experience in the operative reconstruction of the face, scalp, upper and lower extremities, and torso.
- c. Learn techniques of management of neoplasms of the head and neck including the reconstruction of the defects created by their treatment.
- d. Learn techniques of reconstruction of defects of the lower extremities, particularly following trauma.
- e. Learn techniques of reconstruction of congenital and acquired trunk defects and genitalia defects.
- f. To learn techniques of the management of complex wounds in all areas of the body using a variety of techniques including grafts, flaps, and free tissue transfer.
- g. Learn techniques of microsurgery including free tissue transfer for a variety of reconstructive needs.
- h. Demonstrate the techniques for management of plastic surgery of the breast.
- i. Understand the principles of operative techniques of breast reconstruction.
- j. Become competent in the techniques of aesthetic surgery.
- k. Become competent in and demonstrate appreciation of the concerns in the management of both operative and non-operative aesthetic patients to include rhytidectomy, rhinoplasty, blepharoplasty, browlift, chemical peel, dermabrasion, and laser resurfacing.
- l. Demonstrate competency in the technique of aesthetic surgery of the trunk and extremities which include liposuction and body contouring surgery.
- m. Able to prescribe medication for post-operative pain after surgery.
- n. Able to provide post-operative instructions and provide a mechanism for patients to address post-operative problems.

- o. Understand the psychosocial concerns of post-mastectomy and aesthetic surgery patients.
- p. Become competent in the techniques of microsurgical reconstruction as they apply to post-mastectomy patients.
- q. Become competent in the techniques of microsurgical reconstruction as they apply to oncologic reconstruction of the trunk, perineum, and extremities.

MEDICAL KNOWLEDGE

- a. Learn management of assessment and operative and non-operative treatment of maxillary, mandibular, orbital, nasal and frontal sinus fractures.
- b. Learn the early surgical management of acute burns.
- c. Become competent in the techniques of reconstruction of defects of the lower extremities.
- d. Become competent in techniques of reconstruction of defects of the lower extremities following trauma.
- e. Understand the principles of operative techniques of breast reconstruction to include expanders and autologous surgical techniques.
- f. Become competent in the techniques of aesthetic surgery.
- g. Become competent in demonstrating appreciation of the concerns in the management of both operative and non-operative aesthetic patients to include rhytidectomy, rhinoplasty, blepharoplasty, browlift, chemical peel, dermabrasion, and laser resurfacing.
- h. Demonstrate competency in the technique of aesthetic surgery of the trunk and extremities which include liposuction and body contouring surgery.
- i. Demonstrate the techniques for management of plastics surgery of the breast, including breast reduction, breast augmentation, and mastopexy.
- j. Become competent in the techniques of microsurgical reconstruction as they apply to post-mastectomy patients.
- k. Become competent in the techniques of microsurgical reconstruction as they apply to oncologic reconstruction of the trunk, perineum, and extremities.
- l. Demonstrate knowledge in recognizing and treating complications timely and appropriately.

PRACTICE BASED LEARNING/IMPROVEMENT

- a. Become competent in the techniques of microsurgery for a variety of reconstructive needs.
- b. Participate in the performance improvement process including assessment of his/her outcomes.
- c. Be able to critically review medical literature and participate in evidence-based discussions that may lead to improvements in the practice of surgery.
- d. Learn management of assessment and operative and non-operative treatment of maxillary, mandibular, orbital, nasal and frontal sinus fractures.
- e. Understand the principles of operative reconstruction of the face, scalp, upper and lower extremities, and trunk.
- f. Become competent in techniques of reconstruction of defects of the lower extremities following trauma.
- g. Become competent in techniques of free tissue transfer in a variety of reconstructive needs.

- h. Learn management, assessment, operative, and non-operative treatment of rhytidectomy, rhinoplasty, blepharoplasty, browlift, chemical peel, dermabrasion, and laser resurfacing.
- i. Become competent in the techniques of microsurgery for a variety of aesthetic needs.
- j. Understand the principles of operative esthetic reconstruction of the trunk and extremities including liposuction and body contouring.
- k. Able to demonstrate the surgical techniques of wound management covered during the rotation.
- l. Able to choose an appropriate technique, give supporting reasons as to why it is the appropriate choice, and perform the technique.
- m. Able to critically review medical literature and participate in evidence-based discussions that may lead to improvements in the practice of surgery.
- n. Become competent in scientific and technical use of the laser for the treatment of cosmetic patients and acquired conditions.
- o. Become competent in the management of cutaneous and soft tissue malignancies including sentinel lymph node biopsy.
- p. Become competent in the techniques of flap reconstruction, both local pedicled flaps and free tissue transfer.
- q. Become competent in the techniques of microsurgical reconstruction as they apply to post-mastectomy patients.
- r. Become competent in the techniques of microsurgical reconstruction as they apply to oncologic reconstruction of the trunk, perineum, and extremities.
- s. Demonstrate ability and willingness to teach skills/knowledge to others.

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. Understand the physiologic effects of trauma relevant to emergency surgery of the traumatized patient.
- a. Be aware of emotional issues associated with various surgical procedures.
- b. Ensure involvement in the post-operative care of patients and create a positive public image.
- c. Demonstrate the ability to maintain his/her composure during stressful clinical situations.
- d. Acknowledge the anxieties of patients and their families and answer questions and allay anxiety.
- e. Be aware of and sensitive to a variety of cultures and religious believes.
- f. Expected to adhere to the highest ethical standards and the principle "the needs of the patient come first".
- g. 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 multi-specialty burn care team/trauma care team and utilize all members to deliver and improve care/outcomes effectively and efficiently.