



UNC DIVISION OF PLASTIC AND RECONSTRUCTIVE SURGERY

Proposed Goals and Objectives for the Integrated Program Competency-Based, Rotation-Specific, Level-Appropriate

PGY1 Level

Plastic Surgery Residency Overview

The plastic surgery residency commences at the PGY1 level and concludes after successful completion of the PGY6 year. In the first year, each resident will spend one month with the plastic surgery service. Otherwise they will participate in a variety of general surgery rotations, similar to that of a categorical general surgery resident. The second year will be comprised entirely of general surgery rotations. Then in the third year, each resident will spend six months with the plastic surgery service and six months in subspecialty electives. During the six months of plastic surgery time, the PGY 3 resident will serve as the daytime consult resident for the ED and for in-patient services, and he or she will learn perioperative management of the plastic surgery patient. The PGY3 resident will work with all three plastic surgery services (Hand/Burn--**PEACOCK**, Breast/Micro/General--**HARTRAMPF**, and Craniofacial/Cosmetic--**FURLOW**), to help coordinate care and assist with signoffs and transitions of care. In the PGY4, PGY5 and PGY6 years, each resident will spend four months per year, rotating on each of the three plastic surgery services.

Service #1: The **HARTRAMPF** Service UNC Breast/Micro/General Reconstruction

The UNC Breast/Micro/General Reconstruction service will expose the resident to the evaluation and treatment of general plastic and reconstructive surgery issues with a primary focus on breast reconstruction. The full complement of breast reconstructive management and microsurgical reconstruction as well as the management of general plastic surgical complaints such as truncal deformity and wounds will be provided. The faculties of the UNC Breast/Micro/General Service are Drs. Lee and Roughton.

Service #2: The **PEACOCK** Service UNC Hand/Burn Service

UNC Hand/Burn Service exposes the plastic surgery residents to the evaluation and management of patients who require complex burn, hand, and extremity reconstruction. This rotation provides the knowledge and tools required to evaluate and treat both traumatic hand and upper extremity problems as well as complex functional extremity reconstruction. Graduated responsibility is provided including outpatient evaluation and follow-up care, participation in microsurgical hand and extremity reconstruction, and includes the use of multiple laser surgery techniques for burn reconstruction. Faculty members include Drs. Hultman and Castillo.

Service #3: The FURLOW Service
UNC Craniofacial and Cosmetic Service

The Craniofacial and Cosmetic resident will learn the principles and tenets of evaluating, diagnosing and treatment management of patients with reconstructive and aesthetic issues of the face and cranium. Furthermore, the resident will gain critical knowledge in the diagnosis and treatment of aesthetic problems such as facial aging, rhinoplasty, breast aesthetics and techniques in structural fat grafting and dermal fillers. Upon completion of the month, she/he will be proficient in understanding the cutting edge techniques in aesthetic surgery. Graduated responsibility for the management and surgical care of patients requiring craniofacial reconstruction and aesthetic surgery will be provided. This will include outpatient evaluation and follow-up care, participation in calvarial and cleft reconstruction and evaluation and treatment of a multitude of aesthetic complaints.

Faculty members include Drs. Damitz, Van Aalst, and Goldstein.

PGY1

A. MEDICAL KNOWLEDGE

Goal: The intern will achieve **detailed** knowledge of the evaluation and management of a variety of plastic surgical processes. The intern will be exposed to patients with both medical and surgical problems and will become comfortable with their initial evaluation and management.

Objectives:

1. Understands the physiology and biochemistry of normal wound healing and abnormal wound healing, including hypertrophic scars and keloids.
2. Understands the role of nutrition in the wound healing process and is familiar with standard methods for diagnosis and treatment of nutritional deficiency.
3. Is familiar with the pharmacologic agents and other nonsurgical methods for treatment of abnormal healing of skin and subcutaneous tissue.
4. Understands differences in suture materials and indications for use of different materials.
5. Is competent in the management of dressings, splints, and other devices and techniques utilized in wound management.

6. Understands the etiology and nonsurgical management of pressure sores (including preventative measures).
7. Knows the anatomy and function of the epidermis, dermis, skin appendages/nails, subcutaneous tissues and fascial layers.
8. Can perform and accurately relay a pertinent history and physical for hand injuries.
9. Can perform and accurately relay a pertinent history and physical for craniofacial injuries.
10. Understands the clinically important features in monitoring a free flap.
11. Participates in scheduled conferences.
12. Teaches medical students.

B. PATIENT CARE

Goal: The intern will provide patient care that is compassionate, appropriate, and effective for the treatment of plastic surgical problems.

Objectives:

1. Perform comprehensive history and physical exams, consultations, and postoperative checks.
2. Gathers and interprets essential and accurate information about the patient's health status, including:
 - a. Obtaining clinical information from patients
 - b. Obtaining relevant information from nurses, house officers, and hospital departments, e.g. radiology, laboratory, hospital information system
 - c. Obtaining information from referring physicians and hospitals.
3. Evaluates and manages postoperative patients, including:
 - a. Fluid and electrolyte management
 - b. Pharmacologic management, including pain and sedation, antibiotic dosing and pharmacology, VTE prophylaxis, anticoagulation for free tissue transfer.
 - c. Flap physiology and assessment
 - d. Wound care
 - e. Donor site evaluation
 - f. Management of drains
 - g. Familiarity with subatmospheric sponge dressings (wound VAC), tissue-engineered skin replacements (Integra, Alloderm, Transcyte), topical antimicrobials, topical growth factors, and leeches
 - h. Follow-up and outpatient management, including referrals to social work, home health nursing, rehabilitation, and physical medicine.
 - i. Communicate with the APNs, residents, and attendings as appropriate.
 - j. Organize the patient lists and relevant information.
 - k. Complete timely discharge summaries
4. Evaluate plastic surgical, hand, or maxillofacial consults, and form basic management plans.
5. Perform basic invasive surgical procedures:
 - a. I&D of abscess

- b. Reduction of hand fractures
 - c. Proper splint placement
 - d. Primary closure of incisions
 - e. Management of open and infected wounds including debridement and dressing care
 - f. Delivery of local anesthetics
- 6. Learn the basics of a preoperative workup:
 - a. Informed consent
 - b. Risk stratification
 - c. Laboratory analysis
 - d. Prophylactic antibiotic use
 - e. Perioperative management of anticoagulants
 - f. VTE prophylaxis
- 7. Participates in surgical procedures as an assistant
 - a. Practice and maintain sterile technique
 - b. Basic tying and suturing skills
 - c. Understands the proper devices and instruments and their proper use.

C. PRACTICE BASED LEARNING AND IMPROVEMENT

Goal: The intern will investigate and evaluate his or her own patient care practices, appraise and assimilate scientific evidence, and improve patient care practices.

Objectives

- 1. Uses information technology to evaluate and treat patients.
- 2. Improves the efficacy of care by appropriate and timely triage of patient-related problems.
- 3. Organizes patient data/health information to facilitate timely care and reduce errors.
- 4. Teach medical students and other health care professionals about the practices of plastic surgery.
- 5. Achieves functional independence with gradual advancement and responsibilities.
- 6. Learn how and where to acquire relevant patient-care related information (electronic searches, textbooks, library resources.)

D. INTERPERSONAL AND COMMUNICATION SKILLS

Goal: The intern will demonstrate interpersonal and communication skills that result in effective information exchange and teaming with patients, their families, and professional associates.

Objectives

- 1. Become an effective listener to the patients and their families.
- 2. Demonstrate compassion for patients and families.

3. Educate patients and their families about postoperative recovery and disposition.
4. Communicate patient-related issues in a timely manner to supervising resident or attending physician. Discuss assessments and plans to all consultant services in a professional manner.
5. Clearly and legibly document progress notes, procedure notes, event notes, and consult forms in the medical record.
6. Ensure proper communication of patient-related issues and plans to the nursing staff and other healthcare workers.
7. Participate in efficient and comprehensive daily sign-in/sign-outs with the relevant services.

E. SYSTEM BASED PRACTICE

Goal: The intern will demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value.

Objectives

1. Coordinates the pre- and post-operative care and rehabilitation of plastic surgery patients.
2. Use cost-effective and efficient diagnostic testing for patient work-ups.
3. Become advocates for patients within the health care system.
4. Refers patients to the appropriate practitioners and agencies.
5. Facilitates the timely discharge an/or placement of plastic surgery patients.
6. Learn to coordinate the admission of patients and communicate with primary care physicians, and emergency department physicians, inpatient house staff, consult services, and coverage services.

F. PROFESSIONALISM

Goal: The intern will demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population.

Objectives

1. Safeguards the welfare of all patients.
2. Abide by established ethical and moral principles.
3. Respect all patients, their families, all healthcare personnel, and support services.
4. Provide timely and efficient care to all patients and requesting services.
5. Demonstrate an unbiased sensitivity to our patients' cultural, spiritual, and personal beliefs.

6. Become accountable for our personal actions and conduct within the medical center.
7. Dresses in a professional manner while caring for patients.
8. Is reliable and punctual in the OR and clinic.
9. Understands the concepts of autonomy, beneficence, nonmaleficence, justice, and respect for life.
10. Maintains patient confidentiality.