

Queen's University
Department of Surgery – Surgical Foundations
Rotation Specific Goals and Objectives

Plastic Surgery

The resident is expected to be able to describe the rotation specific objectives prior to or at the commencement of the rotation.

Medical Expert/Clinical Decision Make

Knowledge

Clinical

- diagnosis and management of cutaneous and soft tissue tumors
- diagnosis and treatment priorities in facial trauma, thermal injury, soft tissue lacerations, and simple and complex injuries of the upper extremity
- diagnosis and management principles of chronic open wounds
- surgical options and indications for wound closure
- diagnosis and management of congenital, degenerative, neoplastic and inflammatory conditions of the hand
- management of patients requesting body contouring and esthetic surgery
- pharmacology of local anesthetics

Technical competence in:

- preparation of patient for minor surgery
- administration of local anesthesia
- traumatic wound closure
- splinting the injured hand
- extensor tendon repair
- closed reduction of simple and compound fractures of the hand
- management of fingertip amputations
- management of complex facial lacerations
- excisional biopsy of benign and malignant skin lesions
- debridement of devitalized tissue in the setting of minor burns and chronic wounds

Knowledge: Basic Science and Anatomy

- The resident should know the processes of normal wound healing and the factors that inhibit normal healing process as it relates to skin, bone, muscles, nerves and tendons
- The resident should understand the normal anatomy of soft tissue and skin that requires surgical intervention. It is expected that the resident will know the physiology associated with skin and myocutaneous transfers. The resident should be able to classify the various flaps in terms of vascularity and composition of tissues. The resident will also know the normal anatomy and physiology of the breast.
- It is expected that the resident will know the function and anatomy of the upper and lower extremity as well as the principles of the circulatory system.

Knowledge: General Clinical

- The resident should have a knowledge of the various sutures and the indications for their use.

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- The resident will be able to perform a comprehensive examination of the hand, assessing both motor and sensory components and will be able to assess the degree and extent of facial trauma.
- The resident will learn the usage and interpretation of Xrays of upper and lower extremity as well as facial bones
- The resident will understand the principles and use of local anaesthesia, hence appropriate use and limitations.

Knowledge: Specific Clinical

- The resident should understand the indications for plastic surgical management of hand, facial, and soft tissue problems that require plastic surgical intervention.
 - fingertip injuries
 - injured hand
 - post mastectomy reconstruction
 - facial injury
- It is expected that the resident will understand the indications of treatments of lacerations including the principles of debridement and reimplantation where necessary.
- The resident should gain knowledge about the principles of flap coverage and usage
- The resident will gain exposure to burn management (Hamilton General Site) including initial resuscitation, debridement, grafting and rehabilitation.
 - understand the choice of topical antibiotics
 - understand the critical care issues related to burns (airway, inhalational injuries, carbon monoxide)
- The resident should know the indications for breast reconstruction, the various local flaps that can be used as well as distant flaps. He should have knowledge of the anatomy of the commonly used flaps ie latissimus dorsi, Transverse rectus abdominis myocutaneous flaps. He should also know about the technique of Tissue expansion.

Knowledge: Technical

- The resident will learn the techniques of gentle handling of soft tissues and various closure techniques.
- Learn how to do carpal tunnel releases (which are commonly done by general surgeons in the community)
- Learn how to skin graft
- The resident will provide definitive care of lacerations and wounds including those in the face. The resident will perform or assist in reconstructive procedures and will perform in selective cosmetic procedures.
- The resident will perform or assist in procedures involving the hand including repair of flexor and extensor tendons. The resident will perform or assist in facial reconstruction after trauma or wide extirpation of malignancies.
- Assist in repair of small structures including arteries, veins and nerves under the operative microscope.
- Exposure to breast reconstruction techniques

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Communicator

- the resident is to communicate with fellow core residents, attending staff, and emergency physicians in a collegial manner
- the resident is able to communicate with patients and their families in a professional manner
- communicates with nursing staff and all paramedical staff in a courteous and professional manner
- the resident will adequately document patient care encounters in the chart and dictate operative reports and discharge summaries in a concise and timely fashion
- demonstrate effective consultation skills in presenting well-documented assessments and recommendations in written and/or verbal form in response to a request from another health care provider.

Collaborator

- demonstrate effective consultation services with respect to patient care, and education. These include rehabilitation medicine, physiotherapy, occupational therapy, and dietitians.
- demonstrate the ability to work as part of a service housestaff team in a collegial manner
- recognize that complex patient problems require a multidisciplinary approach

Leader

- selects medically appropriate investigative tools in a cost-effective, ethical and useful manner
- completes daily tasks in a efficient and timely fashion
- supervises junior housestaff appropriately in patient care

Health Advocate

- demonstrate an ability to identify risk factors that predispose to or worsen established pathology

Scholar

- access and apply relevant information to clinical practice including new and current therapeutics options
- uses an evidence based medicine approach to solve problems encountered in the day to day care of patients
- attend and participate in the weekly educational rounds
- teaches junior housestaff and medical students in a constructive and respectful manner

Professional

- demonstrates honest and ethical behavior throughout the rotation
- interact with patients, families, nurses and other health care personnel in a professional manner with appropriate attitudes in dealing with patients with plastic surgery problems
- respect all opinions of health care workers as well as the patient and their family
- constantly evaluate her/his knowledge, skills and abilities, and recognize the limits of her/his professional competence