

Rotation Specific Goals and Objectives

Upper Limb

The following document is intended to guide you in some of the specific knowledge and skills you should develop on this rotation. This document is intended to augment but not replace the “Objectives of Training and Specialty Training Requirements in Orthopedic Surgery” and the “Specific Standards of Accreditation for Residency Programs in Orthopedic Surgery”. A copy of these documents is supplied on the orthopedic residency training website and is also available on the Royal College website.

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

It is understood that a residency in Orthopedics is a continuum. Senior residents will be able to meet the same objectives as junior residents as well as the senior objectives.

1. MEDICAL EXPERT

Upon completion of the Upper Limb Rotation, the resident shall have knowledge, comprehension, problem-solving abilities and evaluation skills for the following:

- **Cognitive and Diagnostic**

- o Junior Resident

- Degenerative, overuse and traumatic tendon injuries
 - Principles and indications for joint reconstruction of the upper limb
 - Peripheral nerve injuries, entrapments, and chronic regional pain syndromes
 - Common vascular, inflammatory and congenital conditions
 - Ganglions and neoplasms
 - Splinting and rehabilitation
 - Management of scaphoid fractures

- o Senior Resident

- DRUJ and carpal instabilities
 - Brachial plexus and tendon transfers
 - Principles and indications for arthroscopy in the elbow and wrist
 - Joint contractures including Dupuytren’s
 - Principles of amputations and arthrodesis
 - Unique principles of treatment of skeletal metastases in upper extremity

- **Technical**

- o Junior Resident

- Diagnostic and therapeutic injections to the upper limb
 - Common surgical exposures to the upper limb
 - Surgical management of:
 - Nerve entrapment syndromes
 - Ganglions

- o Senior Resident

- Management of scaphoid non-union
 - Corrective osteotomy of the distal radius
 - Tendon rupture repair and reconstruction
 - Extensor Pollicis Longus
 - Management of joint instabilities: elbow and wrist, forearm and hand
 - Arthroplasty
 - Radial head
 - Thumb CMC joint
 - Ulnohumeral
 - Arthroscopy of the wrist and elbow
 - Arthrodeses:
 - Elbow
 - Wrist
 - Digits
 - Treatment of joint contractures:
 - Elbow
 - Wrist
 - Hand
 - Dupuytren's disease
 - Amputations – elective

2. COMMUNICATOR

- o Junior Resident

- The resident should be able to obtain an informed consent for common upper limb procedures.
 - 2.1.2 Demonstrate skills in working with other providers and patients to overcome communication challenges including anger, confusion, sensory or cognitive impairment, socio-economic or ethno-cultural differences.
 - The ability to obtain an appropriate informed consent for patients undergoing interventions.

- o Senior Resident

- Understand the consent requirements for communication with third party agents Be capable of effective oral and written communication with third party agents such as Workers' Compensation Insurance and disability insurers

3. COLLABORATOR

o Junior Resident

- Define the role and expertise of the health care professionals involved in patient care.
- Demonstrate the ability to accept, consider and respect the opinions of all other team members, while contributing specialty-specific expertise.
- Understand and demonstrate the importance of communication among health professionals involved in the care of an individual patient, including physician colleagues, and allied health professionals.

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o Senior Resident

- Develop skills necessary for successful coordination and implementation of a treatment plan
- Advocate and assist in conflict resolution with third party agents

4. MANAGER

o Junior Resident

- Utilize time and resources effectively in order to balance patient care, outside activities and personal lifestyle considerations.
- Establish an understanding of health care resource allocation and educational resources.
- Effectively utilize information technology to optimize patient care and for continued self-directed learning.

o Senior Resident

- Recognize the financial impact of implementing new technologies into clinical practice
- Prioritize emergent and elective care based on evidence for the benefit of individual patients, populations served and resource availability
- Demonstrate leadership when allocating finite health care resources

5. HEALTH ADVOCATE

o Junior Resident

- Identify the determinants and risk factors for upper limb injury and disease such as age, gender, occupation, education, general fitness and substance abuse
- Know and apply preventive measures to minimize deterioration in overall general health and to optimize results of upper limb surgery.

- Know and apply measures to minimize complications of upper limb surgery.
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o Senior Resident

- Be able to discuss strategies of health promotion that may diminish upper limb injury and disease prevalence
 - Farm / workplace safety, ergonomics
 - Insufficiency / geriatric fractures
- Advocate for timely access to care

6. SCHOLAR

o Junior / Senior Resident

- Demonstrate attributes of self-directed learning by
 - Create a personal learning project
 - utilize critical appraisal to identify possible solutions
- Participate in the education of patients, fellow residents, housestaff, and allied health professionals.
- Pose a research question related to a common upper limb disorder, conduct an appropriate literature search, and propose a research methodology that attempts to answer the question.

7. PROFESSIONAL

o Junior / Senior Resident

- Deliver the highest quality upper limb medical and surgical care with integrity, honesty and compassion.
- Exhibit appropriate personal and interpersonal professional behaviour.
- Practice in an ethically responsible manner that respects medical, legal and professional obligations.
- Recognize, analyze and attempt to resolve ethical issues such as consent, conflict of interest, resource allocation, and practice ethics in medical research, etc