

**DIVISION OF ORTHOPAEDIC SURGERY**

**INDIVIDUAL RESIDENT  
EDUCATIONAL CONTRACT**

DESCRIPTION FOR

**MSK MEDICINE – MODULE #15**

(Name of Resident's Module)

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(Name of Resident)

**Educational Contract**  
**(Division of Orthopaedic Surgery)**

**I      GENERAL INFORMATION**

**Resident:** \_\_\_\_\_

**Duration: 8 weeks**

**Commencement: August 1st, 2011**

**Completion: September 25th, 2011**

**MSK Medicine Module #15:**

**Four pillars of educational activities**

1. Infectious Diseases
2. Rheumatology
3. Physical Medicine and Rehabilitation
4. Paediatrics Orthopaedics
5. Osteoporosis & Metabolic Bone Disease

**Module Leader: Dr. Veronica Wadey (Orthopaedic Surgery)**

**II      ADMINISTRATIVE STRUCTURE**

**a.      Hospitals and/or other institutions participating in program**

**Section Leaders/Educators(s):**

1. Infectious Diseases – Dr. Andrew Simor (Sunnybrook Health Sciences Centre)
2. Rheumatology – Dr. Arthur Bookman (or designate) – Mount Sinai Hospital
3. Physical Medicine and Rehabilitation – Drs. John Flannery & Tania Bruno – Toronto Rehabilitation Institute
4. Paediatrics Orthopaedics – Dr. Ben Alman – Sick Kid's Hospital
5. Osteoporosis & Metabolic Bone Disease – Dr. Heather McDonald-Blumer
6. Skeletal Dysplasia – Dr. Roberto Mendoza

**b.      Interaction with Other Trainees:**

1. Orthopaedic, internal medicine, physiatry, paediatric residents
2. Medical Students (international and local)
3. Other Health Care Providers

**III      PROPOSED GOALS AND OBJECTIVES**

**See Attached Document (Medical Expert Objectives)**

**Professional Qualities**

At the end of the MSK Medicine Module 15, the Competency Based Resident (CBC) will have demonstrated to the satisfaction of his/her supervisor(s): Professional qualities in keeping with the standards set by the CanMeds Objectives of the Royal College of Physicians and Surgeons of Canada.

## **IV CONTENT AND ORGANIZATION OF THE MODULE**

### **a. Sequence of Training (See attached schedule)**

Eight week educational activity emphasis on 4 pillars of knowledge

Weeks 1 to 3

- Infectious Disease Consultation Team at Sunnybrook Hospital

Weeks 4 to 8

- Ambulatory MSK clinics with a focus on:
  - Skeletal dysplasia and genetics
  - Rheumatology
  - Physical Medicine and Rehabilitation
  - Endocrinology & Bone Health

Outline proposed educational activities at each location: outline of clinical exposure for resident at various sites

### **b. Content of Training**

Clinical Activity:

1. Attendance at hospital/outpatient clinics – various affiliated hospitals within the University of Toronto
  - a. Sunnybrook Health Sciences Centre/Holland Orthopaedic and Arthritis Centre
  - b. Toronto Rehabilitation Institute
  - c. Sick Kid's Hospital
  - d. Rheumatology Outpatient Clinics
  - e. Other locations as designated by Section Leaders
2. Attendance at pre-determined educational seminars determined by each section leader
3. Hospital rounds presentation at the Holland Orthopaedic and Arthritis Centre
4. Participation with EMG/NCT and post-sequel MSK conditions
8. Working cooperatively with all paramedical staff

### **c. Narrative Description of Educational Activities**

Components of the module and how it is organized to ensure that the CBC resident achieve(s) an adequate experience in the various aspects four identified pillars of knowledge deemed to be important to demonstrate competency by the end of the 8 week educational experience.

1. Broad exposure to a wide variety of patients with infections, including MSK/orthopaedic trauma infections to acquire and demonstrate competency pertaining to the ability to diagnose, initially manage and to know when to immediately refer a patient with an MSK infection to subspecialty care, including your discipline of orthopaedic surgery. The CBC resident will acquire and demonstrate competency pertaining to ability to order and understand interpretation of appropriate investigations including serology, synovial fluid analysis, radiographs, arthrograms, MRI/CT/Bone scans, bone densitometry, musculoskeletal ultrasound and/or EMG and nerve conducting tests.
2. Broad exposure to rheumatological conditions including inflammatory arthritis with an emphasis on rheumatoid arthritis, spondyloarthropathies, ankylosing arthritis and osteoporosis and bone health; to acquire and demonstrate competency pertaining to the ability to diagnose, initially manage and to know when to immediately refer a patient with any of the above mentioned MSK conditions to subspecialty care, including the disciplines of orthopaedic surgery, rheumatology, internal medicine and other health care teams. The CBC resident will acquire and demonstrate competency pertaining to ability to order and understand interpretation of appropriate investigations including serology, synovial fluid analysis, radiographs, arthrograms, MRI/CT/Bone scans, bone densitometry, musculoskeletal ultrasound and/or EMG and nerve conducting tests.
3. Broad exposure to skeletal dysplasia and genetic conditions pertaining to skeletal dysplasia, metabolic bone diseases and generalized syndromes; to acquire and demonstrate competency pertaining to the ability to diagnose, initially manage and to know when to immediately refer a patient with any of the above mentioned MSK conditions to subspecialty care, including the disciplines of orthopaedic surgery, endocrinology, internal medicine,

paediatrics/genetics and other health care teams. The CBC resident will acquire and demonstrate competency pertaining to ability to order and understand interpretation of appropriate investigations including serology, synovial fluid analysis, radiographs, arthrograms, MRI/CT/Bone scans, bone densitometry, musculoskeletal ultrasound and/or EMG and nerve conducting tests.

4. Broad exposure to physical medicine and rehabilitation with an emphasis on the ability to construct an appropriate differential diagnosis and plan of patient enquiry, examination, limited investigation and assessment for a patient presenting with decrease sensation, loss of motion or weakness. The CBC resident will acquire and demonstrate competency pertaining to ability to order and understand interpretation of appropriate investigations including serology, synovial fluid analysis, radiographs, arthrograms, MRI/CT/Bone scans, bone densitometry, musculoskeletal ultrasound and/or EMG and nerve conducting tests.
5. The opportunity to be involved with interacting/teaching of residents, medical students and other health care providers in the hospital setting may exist
6. The CBC resident will have the opportunity to take orthopaedic on-call educational activities at the TEGH to maintain surgical skill set throughout the non-surgical module.
7. An exit interview with the module leader will occur at the end of the 8 week educational activity and a follow-up questionnaire will be issued at a later date to assess the module and potential change in behavior towards patient care.

## **V EVALUATION OF ROTATION & COMPETENCIES**

1. ITER (Professionalism) – completed by each clinical preceptor
2. Literature review for rounds presentation during module 15 (scholar)
3. Completion of pre-module MCQ & SAQs evaluation (medical expert)
4. Completion of patient encounter during week #5 for mid-module feedback
5. Completion of post-module MCQ, SAQ (medical expert) and Structured Oral (application of knowledge and knowledge transfer)
6. Completion of rounds presentation on a selected topic at the Holland Centre
7. Satisfaction Questionnaire (evaluation of rotation)
8. Follow-up questionnaire (Change in behavior after rotation to assess knowledge translation)

## **VI PROPOSED FINANCIAL ARRANGEMENTS**

**Duration: 8 weeks**

**Salary/Payment arrangements:**

Salary as PGY3 Orthopaedic Resident

**Resident** \_\_\_\_\_

**Date** \_\_\_\_\_

**Module Leader** \_\_\_\_\_

**Date** \_\_\_\_\_