

Goals & Objectives CanMeds
Rotation: VGH Musculoskeletal
VGH
899 West 12th Ave., Vancouver, BC V5Z 1M9

Level: PGY 2 / 3 PGY 4 / 5

Rotation Supervisor: Dr. Peter Munk

The bone radiology rotation at VGH is designed to serve two purposes. For junior residents, this rotation serves as an introduction to bone radiology. For third- and fourth-year residents, this rotation provides in-depth experience in bone CT, bone MRI, musculoskeletal interventional procedures, as well as a re-exposure to a wide variety of plain radiographic examinations of the musculoskeletal system. The instructors at present are Dr. Peter Munk, Dr. Savvas Nicolaou, Dr. Hugue Ouellette and Dr. Luck Louis.

Residents are required to submit two teaching files by the end of the rotation.

PGY 2 / 3

Medical Expert:

- *Demonstrate diagnostic and therapeutic skills for ethical and effective patient care*
- *Access and apply relevant information to clinical practice*
- *Demonstrate effective consultation services with respect to patient care, education and legal opinions*

For junior residents, this rotation provides an introduction to emergency plain films and basic fluoroscopic procedures (such as knee aspirations, hip aspirations, foot and hand arthrograms, diagnostic blocks, and steroid injections), as well as providing exposure to more advanced topics such as bone CT, bone MRI, tumor biopsy and interventional procedures such as radiofrequency ablation and vertebroplasty.

Communicator:

- *establish therapeutic relationship with patients/families*
- *obtain and synthesize relevant history from patients/families/communities*
- *listen effectively*
- *discuss appropriate information with patients/families and the health care team*

Collaborator

- *consult effectively with other physicians and health care professionals*
- *contribute effectively to other interdisciplinary team activities*

LEADER ROLE:

- Implement processes to ensure personal practice improvement
- Set priorities and manage time to integrate practice and personal life
- Apply the science of quality improvement (ie discussion of potential audit) to contribute to improving systems of patient care
- Contribute to a culture that promotes patient safety, including recognition of patient safety issues, and utilization of health informatics to improve patient safety
- Demonstrate leadership skills to enhance health care

Health Advocate

- *identify the important determinants of health affecting patients*
- *contribute effectively to improved health of patients and communities*
- *recognize and respond to those issues where advocacy is appropriate*

Scholar

- *develop, implement and monitor a personal continuing education strategy*
- *critically appraise sources of medical information*
- *facilitate learning of patients, housestaff/students and other health professionals*
- *contribute to development of new knowledge*

To participate in review of bone CT cases and bone MRI cases.

To complete review of the musculoskeletal section of the ACR teaching files.

To read a basic bone radiology textbook (currently we recommend Helms, Fundamentals of Skeletal Radiology, Second Edition).

Professional

- *deliver highest quality care with integrity, honesty and compassion*
- *exhibit appropriate personal and interpersonal professional behaviours*
- *practise medicine ethically consistent with obligations of a physician*

PGY 4 / 5

Medical Expert:

- *Demonstrate diagnostic and therapeutic skills for ethical and effective patient care*
- *Access and apply relevant information to clinical practice*
- *Demonstrate effective consultation services with respect to patient care, education and legal opinions*

In-depth exposure to bone CT, bone MRI and complex bone interventional procedures.

Participate in review and dictation of the orthopaedic reconstructive and orthopaedic trauma films on a regular basis.

Involvement in the CT-guided biopsy procedures, including tumor biopsies, diagnostic blocks, joint aspirations, and drainages.

Performing basic fluoroscopic joint aspirations and injections (as needed).

Daily check with GI/GU fluro CT control desk regarding any arthrograms or other procedures to be performed.

Communicator:

- *establish therapeutic relationship with patients/families*
- *obtain and synthesize relevant history from patients/families/communities*
- *listen effectively*
- *discuss appropriate information with patients/families and the health care team*

Review and dictation of orthopaedic ward trauma films.

Collaborator

- *consult effectively with other physicians and health care professionals*
- *contribute effectively to other interdisciplinary team activities*

Review and dictation of bone CT and bone MRI examination on a daily basis in conjunction with the MSK fellows.

Daily review emergency films on CP alternator. Check these with the staff radiologist before dictating the reports.

Resident doing a third-year bone rotation may spend one afternoon reviewing bone densitometry with Dr Munk (optional).

Manager

- *utilize resources effectively to balance patient care, learning needs, and outside activities*
- *allocate finite health care resources wisely*
- *work effectively and efficiently in a health care organization*
- *utilize information technology to optimize patient care, life-long learning and other activities*

Health Advocate

- *identify the important determinants of health affecting patients*
- *contribute effectively to improved health of patients and communities*
- *recognize and respond to those issues where advocacy is appropriate*

Scholar

- *develop, implement and monitor a personal continuing education strategy*
- *critically appraise sources of medical information*
- *facilitate learning of patients, housestaff/students and other health professionals*
- *contribute to development of new knowledge*

Self-study regarding bone CT and MRI. This should include review of a relevant textbook (we currently recommend Chan, Lang and Genant 'MRI of the Musculoskeletal

Prepare and present monthly bone radiology rounds for the residents' noon session in conjunction with the MSK fellow and/or staff radiologist.

Prepare and present monthly Bone Rounds. Fellow or staff radiologist will assist you with this.

Attend weekly Bone Tumor Rounds (8:00-9:30 AM) every Monday at BCCA.

Attend weekly Orthopedic Rounds (Wednesday mornings 7:00-8:00 AM in the Eye Care Centre Auditorium) (Optional).

Professional

- *deliver highest quality care with integrity, honesty and compassion*
- *exhibit appropriate personal and interpersonal professional behaviours*
- *practise medicine ethically consistent with obligations of a physician*

Reading List:

Greenspan - Orthopedic Radiology

Resnick - Bone and Joint Imaging

Chapman - Aids to Radiological differential diagnosis, Chapters 1,2, and 3

Brower - Arthritis in Black and White.

McKinnis - Fundamentals of Orthopedic Radiology

Chew – Skeletal Radiology: The Bare bones

Kaplan, Dussault - Musculoskeletal MRI

Stoller, Tirman – Diagnostic Orthopedics