

Goals & Objectives CanMeds

VGH Neuroradiology Spine

VGH

899 West 12th Ave., Vancouver, BC V5Z 1M9

Total: # *Periods/modules/Rotations*

Level: PGY 4 - 5

Rotation Supervisor: Jason Shewchuk

This rotation is specifically designated for senior residents (PGY-4 or PGY-5) in the last 6 months (Jan-Jun) of the academic year. Residents will be involved with fluoroscopic spine injections and procedures. Residents are also expected to gain experience protocolling requisitions for spine procedures and imaging. There will be additional opportunity for spine MRI, CT and CR interpretation. Workdays are 0800 to 1700 hours, Monday to Friday.

Residents are required to submit two teaching files by the end of the rotation. These are to be in the format of a short powerpoint presentation to be shown during Friday morning Neuroradiology Interesting Case Rounds (0800-0900) in the Neuroradiology Reading Room.

Guidance will be given to each resident at the commencement of the rotation, an interim evaluation will occur halfway through the rotation, and a final evaluation will be given at the end of each rotation. Each final evaluation will be submitted to the residency training program director.

If a resident is absent from this rotation for any reason, he/she should give ample warning to the Radiologist scheduled for that day. Vacation and conference requests must be booked with Dr. Shewchuk in advance, at least two weeks prior to any planned absence from the rotation.

MEDICAL EXPERT

1. Basic Science

- to understand cross sectional and multi-planar anatomy of the spine

- to understand the fundamentals of image-guided needle placement
- to understand the action of commonly used pharmaceuticals (local anesthetic, steroids)

2. Fluoroscopic-guided procedures

- to understand the procedures: indications, complications, appropriate alternatives, use of conscious sedation, post-procedure care
- to demonstrate basic technical ability: patient positioning, sterile technique, local anaesthetic, simple procedures
- to demonstrate advanced technical ability: performing more difficult procedures

3. Diagnostic Spine MRI/CT/CR

- to understand spine pathology
- to understand imaging protocols, including use of iodinated contrast
- to detect and interpret findings into an appropriate differential diagnosis
- to summarize a case, offer recommendations, and understand treatment and clinical implications

COMMUNICATOR

- to communicate effectively with patients, families and other health professionals
- to obtain appropriate informed consent
- to demonstrate appropriate and timely communication of findings to referring physicians
- to generate accurate, concise, complete reports

COLLABORATOR

- to respect and recognize the roles of, and effectively interact with, other members of the healthcare team, including nurses and technologists
- to fulfill consultant role (appropriate to level of training)

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

- to understand benefits and risks of spine imaging studies and procedures

- to understand the appropriate use of spine imaging and procedures and rationalization of use of imaging resources

SCHOLAR

- to effectively teach others, including residents, medical students, and patients

- to demonstrate continuous self-directed learning (read around cases and topics)

- to demonstrate evidence-based medicine approach and critical appraisal with regards to radiology literature

PROFESSIONAL

- to exhibit professional behaviour, displaying honesty, integrity and respect

- to exhibit ethical behaviour, sensitivity to gender/culture diversity

- to demonstrate satisfactory attendance and punctuality

- to have a good work ethic, enthusiasm, and motivation

- to be reliable, responsible and conscientious

- to demonstrate insight with regards to own limitations, strengths and weaknesses, and to ask for help when appropriate

- to accept constructive criticism

Teaching and Instruction

Teaching will take place in the following forms:

1. Daily preview and review of all procedures with a staff radiologist and supervision of procedures as required (more independence will be granted as competence is demonstrated);
2. Attendance at weekly Neuroscience Grand Rounds and Neurosurgery-Pathology correlative rounds on Wednesday morning;
3. Participation in weekly Neuroradiology Resident Noon Rounds at VGH, (usually held in the Radiology Seminar Room); attendance of and participation in Interesting Neuroradiology Cases Rounds (8am Friday mornings in the Neuro Reporting Room)
4. Residents are expected to attend all Department of Radiology Visiting Professor seminars and lectures, as well as special courses offered in specific years. Neuroradiology Visiting Professors alternate with other specialties.

Educational Facilities: Neuroradiology Library – Room 885A

Text Library

A collection of up-to-date textbooks is available in the Neuroradiology Library. These books may be taken out overnight but they must be brought back during the day as they are often used as references. Replacing them in the appropriate section (Brain, Spine, Anatomy, etc) is required. Residents wishing to use a book for days/weeks are encouraged to obtain their copy from the Biomedical or Woodward libraries. All textbooks removed from the Neuroradiology Library require sign-out. The sign-out sheet will be with Dr. Jason Shewchuk. Any textbook not returned to the Library will be considered property of the last resident to have signed it out, with appropriate charges paid back to the Division of Neuroradiology by the resident.

Film Library

A database of interesting cases is maintained on the MIRC server. A teaching file has been started and two neuroradiology lectures for medical students are on the Radiology Web Site. Radiology Grand Rounds are also available via the Web.

Skull and Spine Models

A collection of models of the skull, petrous bones, and spine is available in the Library. These models are an excellent learning tool, when viewed along with the x-rays in puzzling cases. These models are to not leave the Library except when taken out under the supervision of one of the Neuroradiology Staff.

N.B.: Please remember that no texts, models or teaching file films are to be left lying in the Department (especially in the reporting areas) after hours. All books and models should be returned to the Library at the end of the day.