

McGill University
Dept. of Diagnostic Radiology
Montreal Neurological Hospital and Institute

Clinical & Research Fellowship in Interventional Neuroradiology

*****This position is for candidates covered under an approved Exchange Program with their home Government.**

Duration of training: 1 Year Fellowship Program

Name of Fellowship Director: Dr. Donatella Tampieri

Name of Program Director: Dr. Jana Taylor

The Neuroradiology Department at the Montreal Neurological Hospital and Institute offers a 1-year Clinical & Research fellowship in Interventional Neuroradiology, intended for the more mature candidate who already has fellowship training in diagnostic neuroradiology as well as training or clinical experience in Interventional Neuroradiology. The fellowship program offers exposure to all vascular and non-vascular diagnostic and interventional percutaneous and endovascular procedures. The fellowship provides an integrated experience of clinical care, teaching and research.

The Department is equipped with two 1.5 Tesla Units and one 3 Tesla Unit MRIs (two of these units are largely used for research), a bi-plane neuroangiographic room with Rotational 3D capability, one multipurpose room, one multislice CT scanner, a portable multislice CT scanner, a Color Doppler unit and CR unit.

The Montreal Neurological Hospital and Institute is a major tertiary and quaternary referral center for brain tumors, epilepsy, vascular lesions and degenerative diseases. The program benefits from the close collaboration with 13 neurosurgeons and over 20 neurologists at the Montreal Neurological Hospital and Institute.

The Interventional Neuroradiology service covers all endovascular procedures (coiling of aneurysms, embolization of AVM and tumors, carotid and intracranial stenting, intra-arterial thrombolytic therapy) and all percutaneous spinal procedures (vertebroplasty, biopsy, nerves blocks) The service has admitting privileges for elective procedures and it is fully integrated with the White Neurosurgical Service (Vascular service).

This combined Clinical and Research fellowship is intended for the more mature candidate, who has already completed specialty training in Diagnostic Radiology, already completed fellowship in Diagnostic Neuroradiology and must have at least 6 months experience (either as a fellow or as attending staff) in Interventional Neuroradiology.

Objectives

The clinical component of this combined fellowship is dedicated to the endovascular and percutaneous treatment of central nervous system vascular lesions and tumors, to the percutaneous treatment of spine conditions including vertebroplasty, nerve blocks, epidural blocks and biopsy. Naturally the interventional fellowship also includes interpretation of brain and spine imaging.

At the conclusion of the training the fellow should be able to function autonomously in the performance of diagnostic angiography and spine procedures. S/He should know the indications and the technical management in the treatment of vascular lesions and tumors and should be able to perform under supervision endovascular procedures, lumbar puncture and myelography.

By the end of the fellowship the candidate should be familiar with the materials and devices available and used in the interventional procedures. Furthermore the candidate should be aware of the possible complications of the different endovascular procedures and of their management. The fellow must also become familiar with the most common medications used while the patients are admitted under the White Service care, their dosage and their side effects. The fellow must participate in the Cerebro-vascular clinic with the attending staff which takes place once/ week.

On Call

The fellow is on home call up to 13 days per month. The fellow is on 1st call with attending staff backup at all times. Attending staff must be consulted prior to issuing preliminary reports (whenever deemed necessary) or prior to procedures.

Teaching and academic activities

The fellow participates actively in the teaching and academic activity of the department . Attendance to Neurosurgery Rounds, Cerebro-Vascular Rounds and Thursday Neuroradiology Rounds is mandatory. The attendance to the other “Neuro” rounds at the MNH and JGH are possible if no conflict exist with the work schedule, and verbal permission must be obtained from attending staff to attend these rounds.

Research

During this Clinical and Research fellowship 20% of training time will be dedicated to research activities. The fellow, under the supervision of one of the attending in INR, will be participating actively in a research project with mandatory completion of a manuscript for publication. The completion of a project is considered a formative educational moment during the fellowship year . The completed paper will also be presented at national or international meetings as it is deemed fit depending on the time of the year.

Work Schedule

The approximately working hours are from 8:00 am to 6:00 PM.

Vacation and conferences

Vacations: 20 working days

Conferences: 10 working days.

Feedback and evaluation

The fellow is evaluated on a daily basis by the attending staff. A formal verbal and written CanMEDS evaluation is given to the fellow every 3 months, using One45 electronic evaluation software.

Expected daily case load (Interventional Neuroradiology)

CT: 5 cases

MRI: 5 cases

Diagnostic angiogram and Interventional Procedure 3 cases

Spine procedures 4 cases daily

Total load of endovascular procedures per year: 250 cases

The fellow's responsibilities are separate from those of the residents, and the fellows positively impact residency training. There is no negative impact of the fellowship on residency training.