

## **Clinical & Research Fellowship in Adult Cardiac Imaging**

**\*\*\*This position is for candidates with previous training and clinical experience in Cardiac Imaging\*\*\***

Duration of training: 1 Year Fellowship Program

Name of Fellowship Co-Directors: Dr. Matthias Friedrich & Dr. Karl Sayegh

Name of Radiology Residency Program Director: Dr. Jana Taylor

Names of Cardiology Adult Cardiology Training Program Directors: Dr. Natalie Bottega and Dr. Annabel Chen-Tournoux

The Department of Radiology (McGill University), in collaboration with the Department of Cardiology (McGill University), offers a 1-year Clinical & Research fellowship in Adult Cardiac Imaging. The fellowship program offers exposure to cardiac MR, cardiac CT, and coronary angiography. The fellowship provides an integrated experience of clinical care and teaching at both adult hospitals.

This 1 year position is restricted to candidates with significant clinical experience in cardiac imaging.

The fellowship is heavily weighted in research and encourages the applicant to register in a part-time Masters Degree at McGill or at the Université de Montréal.

The 'academic' year is July 1 to June 30, however 'off-cycle' candidates will also be considered.

### **Cardiac Imaging faculty**

Genevieve Belley, MD

Matthias Friedrich, MD

Karl Sayegh, MD

Alexandre Semionov, MD

### **OBJECTIVES**

To learn the principles and practice of Cardiac Imaging.

- **Adult Cardiac MR:** The cardiac MR Service is run and supervised by the staff of the Division of Cardiac Imaging. The number of cardiac MR per week is expected to be approximately 15-20. Currently, a clinical MRI system is dedicated to cardiac imaging two full days at the RVH site and a half day at the MGH site. It is

expected that this will be expanded, matching the increasing clinical needs. The fellow is expected to learn all facets of cardiac MR including assigning appropriate CMR protocols to specific indications, directly supervising CMR studies, post-process, evaluate and interpret them. Currently, all CMR scans are performed on a Siemens 3T magnet at the RVH site and on a GE 1.5T magnet at the MGH. Interpretation of CMR is done using dedicated cardiac imaging software (cvi<sup>42</sup>).

**Adult Cardiac CT:** The cardiac CT service is run and supervised by the staff of the Division of Cardiac Imaging. The fellow is expected to learn all facets of cardiac CT including how to design protocols, directly supervise CTs and interpret them. All CTs are currently done on GE and Philips 64 channels scanners. Interpretation is done on GE workstations and Philips Intellispace. Evaluation can also be performed using cvi<sup>42</sup>. The case load of cardiac CT is expected to increase in the upcoming year as the division is planning to offer a cardiac CT service for patients presenting to the ED with acute chest pain.

- **Research:** All fellows are required to participate in at least one research project, with the goal of publishing in a major peer-reviewed journal. Fellows are also encouraged to take advantage of the many opportunities to contribute to multi-disciplinary research projects ongoing with other departments.
- **Teaching:** Fellows are expected to teach resident rounds whenever appropriate. This could include general teaching rounds with all the residents, typically one hour per month, as well as case based teaching.
- **Clinical conferences:** The fellow is expected to actively participate in radiology, cardiology and multidisciplinary conferences such as CVT rounds, TAVI rounds and cardiac imaging rounds. The fellow is also expected to prepare articles for being discussed in journal club sessions during the academic year.
- **Teaching files:** The fellow will have access to large Cardiac MR and CT teaching files.

**Schedule:** Work day begins at 08:00 hrs and continues to 18:00 hrs.

**On-Call:** Currently, there are no on-call duties for cardiac imaging fellows, however depending on qualifications, the fellow may be responsible for on call activities in the Chest Radiology section. Fellows are expected to carry a pager or phone at all times during working hours to take inpatients requests for CT and MR and to discuss requests with referring physicians.

**Vacation/Conferences:** The fellow is granted 4 weeks of vacation plus an additional week during either the Christmas or New Year's holidays. The fellow is also granted one week to attend a conference if he/she wishes to do so. If he/she presents a paper at a major conference, the

time of the conference is not counted against his/her conference or vacation time. In addition, he/she may request funding for expenses incurred to attend the meeting where he/she presents, provided that the research was done in the department of Radiology at McGill University and if a *written paper has been submitted to an acceptable journal within 3 months of the presentation.*

**Fellow Evaluation:** The fellow is evaluated on a daily basis by the attending staff and will meet regularly with the fellowship supervisors for face-to-face feedback. A formal written evaluation is completed every three months, using the CanMEDS roles scheme.

### **Academic Facilities**

- Internet access from all workstations and from fellow's office
- Access to libraries at MGH, RVH and McGill
- Multimedia learning materials available
- Free online journal access via McGill portal
- Rooms for small group meetings
- Teleconference rooms
- Lecture rooms

*The fellows' 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.*

**Sept 2015**