



## Internal Medicine – Cardiology

### Jewish General Hospital

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### Elective Description

The Jewish General hospital is one of Quebec's largest and busiest acute-care hospitals, and a core teaching hospital of McGill University. The JGH comprises 637 beds, and sees more than 23,000 admissions, 300,000 outpatient visits, and 67,000 emergency room visits a year. The JGH's Cardiovascular Integrated Practice Unit is a combined cardiac/cardiac surgery ward including a 14-bed Cardiovascular Intensive Care Unit and a 36-bed Cardiovascular Unit. The hospital offers a wide range of cardiology services including interventional cardiology (primary percutaneous intervention for myocardial infarction), echocardiography (TTE, TEE and stress echo), nuclear medicine, cardiac CT and MRI, and pacemaker implantation. Patients who require mechanical circulatory support, structural intervention, or interventional electrophysiology are stabilized for transfer to the McGill University Health Center for these procedures.

The Cardiology service at the JGH accepts medical residents and students who wish to perform an elective on the Cardiology Consult rotation. The Consult team includes an attending, a cardiology resident, residents from internal medicine, family medicine or other specialties, and medical students. The team responds to requests for cardiology consultation in the Emergency Room and other inpatient wards in the hospital.

### Elective Duration

2, 3 or 4 weeks

### Pre-requisites

This elective is open to students who have already completed their internal medicine clerkship.

### Educational Objectives

During the course of the rotation, residents and students on the Consult team will gain exposure to a wide range of cardiac emergencies such as acute myocardial infarction, acute decompensated congestive heart failure, cardiac tamponade, aortic dissection, unstable arrhythmias, and cardiogenic shock. They will also be exposed to more stable patients such as those with atrial fibrillation,



bradyarrhythmia, angina, valvular syndromes including endocarditis, pericarditis, syncope, and hypertension. They will also be expected to assist as part of the multidisciplinary team in evaluating pregnant patients with cardiac issues, and assessing patients for fitness to safely undergo non-cardiac surgery or treatments such as chemotherapy. They will be expected to develop competence in formulating appropriate diagnostic and treatment plans for patients who will be admitted or discharged to ambulatory care.

### **Scope of Work**

Residents and students will see patients for cardiology consultation in the emergency room and inpatient wards. If interested, they may also observe in the echocardiography lab, cardiac catheterization lab, or cardiovascular intensive care unit.

Each morning begins with sign-in rounds (7:30 am) in the inpatient ward, where the resident who was on-call overnight for the ward transfers care to the consult team of any patients seen in consultation overnight who require follow-up the next day. The consult team assumes care of these patients and also begins accepting new consultations. With the ward team, the consult team attends daily morning didactic sessions led by attending staff, covering core topics like acute coronary syndromes, heart failure, valvular disease, common arrhythmias, and non-invasive testing. The day ends generally around 5 pm, at which time the overnight ward team covers new consult requests. There is no overnight call in the Consult rotation.

### **Recommended Reading/Preparation**

Canadian Cardiovascular Society guidelines

American Heart Association/American College of Cardiology guidelines

ECG interpretation



## Undergraduate Medical Education Elective

### Internal Medicine – Cardiology

#### Montreal General Hospital & Glen

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### Elective Description

Cardiology electives are offered through the Royal Victoria Hospital, MUHC Cardiology Office. Cardiology electives are available to clerkship students. The cardiology elective takes place with the Cardiology Consulting Service and, with special permission from the CCU Director, with the Coronary Intensive Care Unit. Because of the very high turnover of very high-risk patients, the CCU rotation is offered only exceptionally.

### Educational Objectives

The objectives of the Cardiology elective are to improve the students' clinical skills and understanding of basic pathophysiology of cardiovascular diseases. Students are encouraged to be the initial contact with the patient and to take the history and perform a complete physical examination.

The presentation of the case and the organization of the history, physical exam, and laboratory findings are considered an important part of the rotation. Students are strongly encouraged to follow their cases through the various cardiac investigations, including stress test, echocardiogram, stress echocardiogram, nuclear cardiology, cardiology catheterization and follow-up prior to discharge. In addition, electrocardiographic reading sessions are organized as part of the elective.

The most important part of the rotation is special emphasis on the history taking and physical examination. Specifically, an appreciation of heart sounds and murmurs, evaluation of venous and arterial pulses and a complete physical examination. as it relates to systemic manifestations of cardiovascular diseases or of diseases that may impact on the cardiovascular system.

### Scope of Work

The student is requested to attend Cardiology Grand Rounds on Thursdays at Noon, Clinical Cardiology Conference on Friday at Noon, and the McGill University Cardiology Conference held monthly. At the end of each week on rotation, an evaluation is performed by the attending physicians.



## Internal Medicine – Cardiology

### St. Mary's Hospital

#### Contact Information

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#### Elective Description

This elective is ideal for students interested in perfecting their skills in the assessment and management of common cardiology conditions. Trainees will develop an approach to patients with chest pain (cardiac and non-cardiac), heart failure, valvular heart disease and tachy/brady-arrhythmias. Students at Saint Mary's will be provided with ample opportunities to assess patients in the emergency department, medical and surgical wards, as well as in the medical day center and pre-operative assessment center. Students completing this elective will perfect their skills in history-taking, cardiac physical examination, and electrocardiographic interpretation. Trainees are encouraged to observe exercise stress tests and echocardiograms for the patients they have assessed. Students at Saint Mary's review consultations one-on-one with the attending cardiologist.

#### Elective Duration

2, 3 or 4 weeks

#### Educational Objectives

1. Demonstrate knowledge in the disciplines from the biological, behavioural sciences and social sciences, as well as the humanities that are foundational to the practice of medicine.
2. Gather a history and perform a physical examination.
3. Create and prioritize a differential diagnosis.
4. Select and discuss treatment plans and prescriptions.
5. Report on a clinical encounter
6. Promote an appropriate patient-doctor relationship
7. Manage the encounter
8. Demonstrate the attributes of the professional and the healer during the medical school experience and in the context of patient care.



9. Work within an interprofessional team to care for individual patients and to promote the health of defined populations.
10. Participate in the delivery of excellent patient care in their clinical environment
11. Advocate for the health of individuals

### **Prerequisites**

None.

### **Scope of Work**

Work hours: The typical day starts at 8am and ends at 5PM.

Elective students are not assigned on-call duties.

Students will assess patients with cardiac complaints in the emergency department, medical and surgical wards, medical day center as well as the pre-operative clinic.

Teaching activities: Students are expected to attend the monthly cardiology journal club, weekly Medicine Grand Rounds, and weekly video-conferenced cardiology rounds from the MUHC.

### **Recommended Reading/Preparation**

Pathophysiology of Heart Disease: A Collaborative Project of Medical Students and Faculty, 6th Edition edited by Leonard S. Lilly



## Undergraduate Medical Education Elective

### Médecine interne – Cardiologie

#### Hôpital de Hull

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#### Site

##### CISSS de l'Outaouais

Le CISSS de l'Outaouais compte parmi les plus importants centres de santé au Québec et regroupe 6 hôpitaux (600 lits) offrant une gamme complète de services à plus de 360000 personnes, ainsi que des services spécialisés et ultraspecialisés à la population de l'Outaouais et du nord-ouest du Québec.

#### Soutien financier

Les externes inscrits dans une faculté de médecine au Québec, peuvent bénéficier de compensation financière pour leur déplacement et logement dans les milieux de formation en région au Québec. Veuillez consulter le site internet du [Programme de la formation médicale décentralisée](#) pour plus d'information.

#### Description du stage

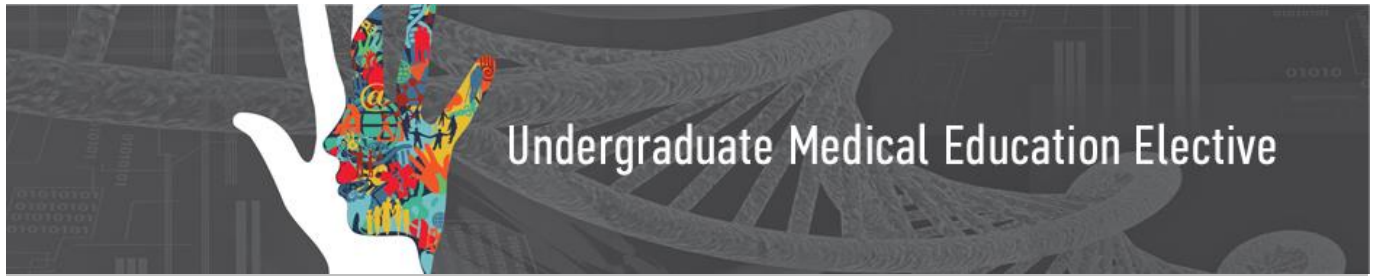
Intégré à l'équipe de cardiologie, l'externe sera exposé aux diverses pathologies de cette spécialité en particulier aux maladies coronariennes. Le stage comprend conduites d'examen, consultations à l'urgence et sur les unités, suivi des hospitalisations à l'unité coronarienne, discussions de cas cliniques et exposition au laboratoire d'hémodynamie.

#### Durée du stage

2, 3 ou 4 semaines

#### Objectifs pédagogiques

Permettre à l'externe de se familiariser avec les principaux problèmes de cardiologie clinique. Il sera en mesure d'établir le diagnostic différentiel, organiser l'investigation et prescrire le traitement de base. Acquérir une plus grande connaissance des maladies coronariennes. Décrire un ECG et connaître les critères d'anormalité et reconnaître les principales pathologies associées, de même que les principes de traitement.



## Undergraduate Medical Education Elective

### Modalités de déroulement

L'horaire est distribué en début de stage. La première journée du stage débute par une orientation/accueil dans le milieu afin de vous familiariser.



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