

HIV AMBULATORY CARE ROTATION

Site:

McGill University Health Centre
Montréal Chest Institute
Immunodeficiency Service
3650 rue St-Urbain, 8th floor
Montréal, Québec
H2X 2P4

- The immunodeficiency service of the Montréal Chest Institute serves approximately 1200 HIV – infected patients. It is amongst one of the largest HIV ambulatory care clinics in the province of Québec.
- An interdisciplinary team approach is provided to patients. The medical staff includes infectious disease specialists, immunologists, and general practitioners with an interest for HIV patient care. The team also includes 4 pharmacists, clinical and research nurses, a dietitian, a social worker, a psychiatrist, a psychologist and a TB expert. Pharmacists normally offer pharmaceutical care to HIV – infected patients on a full-time basis. Furthermore, since May 2006, the hospital is responsible for the Québec Provincial Antiretroviral Therapeutic Drug Monitoring Program. Pharmacists are responsible of doing the TDM interpretations for the treating physicians across the province.
- The Québec division of the Canadian HIV / AIDS Trial Network is located at the Montréal Chest Institute. Clinical studies and fundamental research on HIV are ongoing. Specific research interests include protease inhibitor boosted regimens, therapeutic drug monitoring of antiretrovirals, viral resistance to antiretrovirals, hepatitis B / C / HIV co-infected patients, cytokines and interleukins.

Preceptors:

- Nancy Sheehan, M.Sc.
- Marie Courchesne, M.Sc
- Niamh Higgins, PharmD
- Anick Boulerice, M.Sc

Correspondence:

Nancy Sheehan, B.Pharm, M.Sc
Immunodeficiency Service
Montréal Chest Institute
Tel: (514) 934-1934, ext 32191
Fax: (514) 843-2092
e-mail: nancy.sheehan@umontreal.ca

Duration of rotation: 8 weeks

Goals:

The HIV specialty resident will be asked to apply the pharmaceutical care model to HIV ambulatory patient care.

- 1) To increase the student's knowledge on antiretrovirals and other medications used for the management of HIV / AIDS and opportunistic infections.
- 2) To increase the student's ability to identify, manage and monitor drug-related problems seen in HIV – infected patients and collaborate, when necessary, with other health professionals.
- 3) To increase the student's awareness of social, psychological, emotional and ethical issues which accompany HIV infection.

Objectives:

By the end of the rotation, the student will be able to:

- Discuss the current recommendations on the management of HIV – infected adults:
 - Disease process: transmission risk factors and preventative measures, natural history of infection, laboratory measures monitored, clinical presentation, epidemiology,
 - Pharmacotherapy: when to start and change therapy, choosing an antiretroviral agent in the antiretroviral naïve population and in patients with multiresistant virus,
 - Monitoring: monitoring of efficacy, adverse drug reactions and adherence;
- Discuss the current recommendations on the management of the most common opportunistic infections, concomitant infections and HIV related complications (will vary based on the cases seen):
 - *Pneumocystis jiroveci* pneumonia,
 - *Toxoplasmosis gondii* encephalitis,
 - Oral and esophageal candidiasis,
 - Herpes virus infections,
 - *Mycobacterium avium* complex,
 - Cryptococcal meningitis,
 - Progressive multifocal leukoencephalopathy,
 - Tuberculosis co-infection,
 - Hepatitis C co-infection,
 - Hepatitis B co-infection,
 - Syphilis,
 - AIDS dementia,
 - HIV nephropathy, etc;

- Recommend appropriate antiretroviral regimens to patients and to the treating team based on the patients' medical history, concomitant medications, laboratory results, viral mutations, and preference, and based on the pharmacological characteristics of the available and investigational antiretrovirals;
- Counsel patients starting new antiretroviral regimens and/or new medications for the management of HIV / antiretroviral or HIV complications / opportunistic infections;
- Develop and implement a monitoring plan for patients who have recently started antiretrovirals (efficacy, tolerability, laboratory results, adherence);
- Identify drug – related problems and develop and implement an individualized pharmaceutical plan to manage these drug – related problems:
 - Collect pertinent disease, drug and patient information from the patient's chart and by interacting with the patient,
 - Identify actual and potential drug – related problems,
 - Prioritize the drug – related problems,
 - For each drug-related problem, provide appropriate recommendations for the management of the problem and communicate the plan to the medical team and to the patient,
 - Develop and implement a monitoring plan for the intervention);
- Anticipate, detect, manage and monitor adverse drug reactions and drug-drug or drug-food interactions;
- Provide appropriate and concise drug information in a timely manner to patients and health professionals (including the 1-800 line) who have queries on the management of HIV and opportunistic infections;
- Recognize when to prescribe antiretroviral therapeutic drug monitoring, participate in the TDM data collection and understand the interpretation report;
- Act as a responsible, mature, professional and motivated member of the interdisciplinary team.