

HIV AMBULATORY CARE ROTATION

McGill University Health Centre

Chronic Viral Illness Service

Site:

McGill University Health Centre
Chronic Viral Illness Service
1001 boul. Décarie, bloc D, 2nd floor
Montréal, Québec H4A 3J1

The Chronic Viral Illness Service of the McGill University Health Centre serves over 1900 patients HIV mono-infected, HCV mono-infected or HIV/HCV co-infected. It is 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, hepatologists and general practitioners with an expertise in HIV patient care. The team also includes 5 pharmacists, clinical and research nurses, a nutritionist, two social workers, a psychiatrist, and a psychologist. Pharmacists offer pharmaceutical care to clinic patients on a full-time basis. Furthermore, since May 2006, the hospital is responsible for the Québec Antiretroviral Therapeutic Drug Monitoring Program. Pharmacists do TDM interpretations for patients from across the country.

The Québec division of the Canadian HIV / AIDS Trial Network is located at the McGill University Health Centre. Clinical studies and fundamental research on HIV, viral hepatitis and comorbidities are ongoing. Specific research interests include new HCV therapies, viral resistance to antiretrovirals, immunotherapeutics, HIV/HCV co-infection, neuro-cognitive impairment associated with HIV, pharmacokinetics of antiretrovirals.

Preceptors:

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Duration of rotation: 8 weeks

Goals: The HIV specialty resident will be asked to apply the pharmaceutical care model to patients with HIV and/or viral hepatitis.

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

Objectives: By the end of the rotation, the resident will be able to:

- Discuss the current recommendations for the management of HIV, HCV and HBV:
 - Disease process: epidemiology, transmission risk factors and preventative measures, natural history of infection, interpretation of pertinent laboratory tests, clinical presentation, complications, prognosis;
 - Pharmacotherapy: when to start and change therapy, choosing an antiviral treatment in treatment-naïve and treatment-experienced patients;
 - Monitoring: monitoring of efficacy, adverse drug reactions and adherence;

- Discuss the current recommendations for the management of opportunistic infections, concomitant infections and HIV related complications (will vary based on the cases seen):
 - *Pneumocystis jiroveci* pneumonia
 - Toxoplasmosis encephalitis
 - Oral and esophageal candidiasis
 - Herpes virus infections
 - *Mycobacterium avium* complex
 - Cryptococcal meningitis
 - Progressive multifocal leukoencephalopathy
 - Tuberculosis co-infection
 - Syphilis
 - Neurocognitive impairment
 - HIV nephropathy
 - AIDS associated malignancies, etc;

- Recommend appropriate antiviral 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 antivirals;

- Counsel patients starting new antiviral regimens and/or new medications for the management of opportunistic infections or other complications;

- Identify health problems and develop and implement an individualized pharmaceutical care plan to manage these health problems:
 - Collect pertinent disease, drug and patient information from the patient's chart and by interacting with the patient;
 - Identify actual and potential health problems;

- Prioritize the health problems;
 - For each health 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.
- Anticipate, detect, manage and monitor adverse drug reactions;
- Anticipate, detect, manage and monitor drug-drug 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, HCV, HBV and opportunistic infections;
- Recognize when to prescribe antiretroviral therapeutic drug monitoring, participate in the TDM data collection, understand the interpretation report and do the necessary follow-up with the team and patient;
- Act as a responsible, mature, professional and motivated member of the interdisciplinary team.