Sunnybrook Health Sciences Centre (SHSC)

Type of Program: AMBULATORY PHARMACY PRACTICE RESIDENCY PROGRAM

No. of residents: 1

Program Description

"Ambulatory care" includes health-related services that are provided to patients who walk to seek their care and includes a wide range of service areas including outpatient pharmacies, emergency departments, primary care clinics, specialty clinics, ambulatory care centres and family practice groups.

The ambulatory practice residency at SHSC is a 1 year training program focusing on developing practice skills as they apply to ambulatory care. The resident will increase his/her knowledge and practical experience in the pharmaceutical management of chronic disease states and refine problem-solving and decision-making skills. In addition, the resident will develop effective communication skills with patients and health care professionals and understand the multidisciplinary approach to health care.

This program will emphasize areas for which the department has considerable experience, such as general ambulatory practice in the outpatient pharmacy, family health teams, women’s health, oncology, psychiatry, anticoagulation, cardiology and drug safety assessment.

Note: Currently, there are no standards for accreditation of this program.

Starting date: July of each year

Rotations and Activities

General Orientation
A general orientation to the hospital and pharmacy department, including areas of drug distribution, the Ambulatory Patient Pharmacy (APP), drug information, MetroDIS, Odette Cancer Centre, as well as pharmacy stores, pharmacy manufacturing, quality control lab, emergency, microbiology and imaging departments.

Clinical Orientation Week
One week orientation to the basic components of clinical practice, including: medication reconciliation training, e-discharge training, ODB profile viewer, systems review, chart review, chart documentation, electronic patient records, order clarification, medical delegated acts, antimicrobial stewardship, patient safety initiatives, etc.

Aseptic Technique
The resident will be trained in aseptic technique. After successful completion of the written and practical examination, the resident will receive a certificate.

Ambulatory Patient Pharmacy (APP)
Orientation to outpatient pharmacy where the patient population is Sunnybrook hospital staff, ambulatory patients, patients being discharged from hospital, and special patient populations such as HIV, dialysis, dermatology and orthopedics. Practice of distribution skills and communication skills in counseling of patients on prescription and non-prescription medications. Enhance problem-solving skills in identification, resolution and prevention of
DRPs. Participation in CE sessions, patient care reviews and Sundec diabetes education sessions for patients

**Pharmacy Management**

The resident will become familiar with third party drug coverage plans and pharmacy management issues (i.e. inventory, financial planning, and management skills). A mini-project may be completed during this rotation.

**Drug Information**

Orientation to drug information (DI) resources and research. Review of critical appraisal of medical literature. Direction is provided to formulate both verbal and written responses to DI questions posed by SHSC staff (i.e. physicians and nurses) during the drug information rotation. In addition, the resident responds to questions posed by community hospital pharmacists subscribing to the MetroDis service

**Women’s Health**

*Osteoporosis clinic:*
Provides clinical pharmacy services to prevent and manage osteoporosis in a multidisciplinary team setting. Enhance knowledge and practice skills in pharmaceutical management of osteoporosis.

*Osteoporosis follow-up clinic:*
For patients returning to osteoporosis program, follow outcomes from previous pharmacy care plans, manage any identified problems and refer to other health care professionals as required.

*Osteoarthritis clinic:*
Develop practice skills in each of the steps of pharmaceutical care in provision of care for patient with osteoarthritis, working in conjunction with the physician, clinic pharmacist and patients. Enhance knowledge in pharmaceutical management of osteoarthritis.

**Drug Safety Clinic**

Refine thorough history-taking skills to assess the causality of medications in adverse events experienced by patients. Skin testing and other drug re-challenge methods performed, as required. Enhance knowledge and practical skills in pharmaceutical management of ADRs.

**Oncology**

Pharmaceutical care will be provided to cancer patients in the Odette Cancer Centre (OCC) attending a variety of outpatient clinics.

**Pain Management**

The resident will participate with pharmacists in the SHSC pain management clinic.

**Emergency Medicine**

Pharmaceutical care and education provided to patients attending the Sunnybrook Emergency Department. Enhance knowledge and practice experience in the pharmaceutical management of emergency medicine and toxicology in various patient populations.

**Anticoagulation**

Provide pharmaceutical care in follow-up with patients who attend the anticoagulation clinic. Monitor INR values to assess dosing of oral anticoagulant and educate patients as required. Enhance knowledge and practical skills in pharmaceutical management of patients undergoing long-term anticoagulation. The opportunity to spend some time with the inpatient thromboembolism team is possible.

**Family Health Teams**

Provide pharmaceutical care to patients in the following areas: disease
management and prevention, disease cure, rehabilitation, palliative care and health promotion. This type of primary health care setting provides the opportunity to collaborate with physicians, nurse practitioners, nurses and other health care professionals. The North York FHT, McMaster-Stonechurch FHT and Women’s College Ambulatory Care Education (CACE) - Complex Care Clinic are available practice sites.

Nephrology

Provision of Inter-professional care to patients attending the 3 Sunnybrook outpatient Nephrology Clinics (Kidney Care/ Pre-dialysis Clinic, Peritoneal Dialysis Clinic and Hemodialysis Clinic). Therapeutic discussions with the Pharmacy practitioners (i.e. chronic renal disease, treatment of anemia, etc.).

Research project

Resident will develop his/her own project proposal. This will involve writing a research protocol, submission to the research ethics committee for review, data collection, data analysis, manuscript write-up and oral and poster presentation of the research.

Conferences

CSHP – Summer Educational Sessions
CSHP - Professional Practice Conference

Other activities

Pharmacy Journal Club (1/week)
Emergency Lecture Series (2-3/week during summer)
Educational Discussions (1/week)
Clinical Pharmacology Grand Rounds (1/week)
Clinical Pharmacology Patient Case Session (1/month)
Medical Lecture Series (2-3/week)
Patient Review Presentations
Pharmacy Residents’ Seminars
Small Group Teaching Sessions
Teaching Skills Workshops
Evidence-based Medicine Sessions
Patient Safety Sessions (1/month)
Medical Grand Rounds (1/week)

Prerequisites:

Graduates or prospective graduates of a Faculty of Pharmacy in which the curriculum meets the standards established by the Association of Faculties of Pharmacy of Canada; eligible for licensure to practice pharmacy in a Canadian province.

Application procedures

Applications are coordinated through the Ambulatory Practice Residency Coordinator at Sunnybrook Health Sciences Centre. Residents are ranked on the basis of academic standing, past experience, references and performance in a personal interview.
Additional comments

In addition to the above activities, the resident may attend pharmacy and hospital committee meetings, P&T meetings, pharmacy staff meetings and Pharmacy Operations Committee meetings, upon invitation. The resident may occasionally be asked to conduct tours of pharmacy students or other guests of the department. The resident is evaluated after each rotation as well as at the 6-month point and end of their program. Formal presentations are also evaluated.

Residency Director: Scott Walker, MScPhm
Ambulatory Practice Residency Coordinator: Brian Hardy, PharmD

Rotations & Activities | Duration
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Orientation | 1 week
Ambulatory Patient Pharmacy | 2 weeks
Pharmacy Management (SB) | 2 weeks
Drug Information (SB) | 2 weeks

Clinical Electives

Women’s Health Clinics (WC) | 5 weeks
Osteoporosis clinic
Osteoporosis follow-up clinic
Ontario Telehealth (OP)
Osteoarthritis clinic
MotherRisk Program (HSC)

Drug Safety Clinic (SB) | 5 weeks
Oncology (Odette Cancer Centre) | 5 weeks
Pain Management Clinic (SB) | 5 weeks
Emergency Medicine (SB) | 5 weeks
General Medicine | 5 weeks
Immunobullous Clinic (WC) | 5 weeks
Nephrology (SB) | 5 weeks
Kidney Care/ Pre-dialysis Clinic
Hemodialysis Clinic
Peritoneal Dialysis Clinic
Inpatient Nephrology
Anticoagulation 5 weeks
  Outpatient Clinic (SB)
  Thromboembolism Service
  Anticoagulation Certification (Waterloo)

Family Health Teams 5 weeks
  North York FHT
  McMaster-Stonechurch FHT
  Women’s College CACE CCC

Cardiology (SB) 5 weeks
  Heart Failure Clinic
  Hypertension Clinic

Research Project 10 weeks

Conferences 2 weeks

Vacation 2 weeks