

Health Sciences Centre Department of Pharmaceutical Services Pharmacy Student Placement Descriptions

The Hospital

The Health Sciences Centre (HSC) is an 820-bed tertiary care hospital that provides health services to adults and children from Manitoba and Northwestern Ontario. It comprises a General Hospital (adult medical & surgical care), a Women's Hospital, Respiratory and Rehabilitation Hospitals, a PsychHealth Centre and a Children's Hospital.

Information about parking, food, bus routes, and maps can be found on the WRHA Welcome page <https://elearning.easygenerator.com/a17ec104-ce11-4cbc-83ad-7f067c588e64/#/login> . You do not need a WRHA email to create an account.

The Pharmacy

- To get to the Central Pharmacy from the **820 Sherbrook Street Entrance** of the HSC, walk past the lobby and vending machines (on your right) to the first corridor on your right. Turn right. The door marked "Pharmacy Administration MS-189" is to your left. You have gone too far if you reach the wheelchair ramp to the Children's Hospital. Use the door buzzer to gain access to the pharmacy.
- To get to the Central Pharmacy from the **720 William Avenue Entrance** of the HSC, ask for a map to the Main Pharmacy MS189 or walk past the Welcome Centre and turn left towards the Bison (orange) zone. When you reach the "T" junction at the end of the corridor, turn left toward Ann Thomas, then turn right and follow the corridor (and signs) toward Children's Emergency. When you reach the stairs (the end of that corridor), turn right again and proceed along the corridor until you reach the MS189 Pharmacy Administration door, which is the first door to your right. You'll know you're going the correct direction if you pass a wheelchair ramp on your left immediately before you reach MS189. Use the door buzzer to gain access to the pharmacy.

The HSC Pharmacy has a large staff that works from the Central Pharmacy or one of eight satellite pharmacies. Most satellite pharmacists provide both clinical and drug distribution services (unit-dose, IV admixture) to the patients in their service area. Pharmacy technicians and assistants provide medications to the rest of the patient care areas using a combination of automated unit-dose (Cerner-HealthVision; Pyxis), individual prescription, or ward stock distribution systems. The Sterile Products Satellite (4th floor, General Hospital) provides

oncology and parenteral nutrition admixture services as well as a centralized IV admixture program. Pharmacists from the Central Pharmacy have clinical service assignments to selected program teams (e.g., Dialysis Program). Pharmacy technicians and assistants also aid delivery of pharmaceutical care through support of pharmacy purchasing, ward stock, and inventory control systems. Technicians provide support for BPMH in the adult emergency area.

Rotation Sites

1. Adult Medicine/Surgery

Pharmacists provide clinical and drug distribution services to patients on medical and surgical units associated with Medicine and Surgery Teaching Services 8 hours a day, 5 days a week. A wide variety of patients are seen in these patient care areas (e.g., heart disease, renal disease, respiratory disease, diabetes, serious or uncommon infections, deep vein thrombosis, neurosurgery, general surgery, gynecologic surgery, etc.), providing excellent opportunities to identify, prevent and resolve drug-related problems with drugs and diseases.

If you are assigned to this area, you will have many opportunities to interact with nurses, physicians-in-training, and other allied health professionals. Pharmacists focus on safe and effective medication prescribing, answering drug information questions, medication reconciliation, and pharmacotherapy monitoring of narrow-therapeutic range drugs. Pharmacists provide discharge medication counseling to patients if consulted to do so. Pharmacists attend rounds with physicians on medicine wards weekday mornings. Pharmacists do not usually attend rounds on surgery wards.

2. Adult Critical Care

The Critical Care Satellite Pharmacy team members provide clinical and drug distribution services to patients in the Adult Critical Care, Intermediate Intensive Care, 24 hours a day, 7 days a week. This Pharmacy Team also provides limited support to the Adult Post-Anesthesia Care Unit. Adult Critical Care is made up of three ICUs: a Medical ICU, Surgical ICU and Intermediate Intensive Care Unit (IICU). The Medical ICU cares for people that have life-threatening medical conditions (e.g., severe increase or decrease in blood pressure, severe pneumonia or other life-threatening infections, decompensated congestive heart failure, etc). Many patients require blood pressure or breathing support. The Surgical ICU cares for people that have experienced trauma or major surgical procedures (e.g., transplantation, high-risk surgical procedures). The Intermediate Intensive Care Unit is a step-down unit for people that have

medical problems that are best handled in an ICU setting, but that don't require the full resources of the Adult ICU.

If you are assigned to Adult Critical Care, you'll have many opportunities to answer drug information questions, attend daily interdisciplinary rounds, and to observe/monitor the effects of drug therapy. Critical Care also provides excellent opportunities to discuss important practice issues such as time management, building pharmacist-patient relationships, and how to deal with death and dying. Finally, because the satellites operate 24 hours a day, it may be possible for you to observe the responsibilities of the sole charge pharmacist during evening hours.

3. Pediatrics

The CK4/NICU/PICU Satellite Pharmacy team members provide clinical and drug distribution services to patients in the pediatric and/or neonatal intensive care unit, and to children on all wards at the Children's Hospital. Service is provided 24 hours a day, 7 days a week. The Neonatal ICU and Pediatric ICU care for neonates and children that have life-threatening medical/surgical/congenital conditions (e.g., severe increase or decrease in blood pressure, life-threatening infections, cardiac or breathing problems, etc). Some patients require blood pressure or breathing support. On the general care units, children may have respiratory infections, uncontrolled asthma, cancer, kidney problems (e.g., transplant recipients), or other medical/surgical/congenital problems that require hospital care. Pharmacists attend rounds with physicians and charge nurse in the ICUs and medicine wards.

If you are assigned to the Pediatrics area, you'll have many opportunities to answer drug information questions, research diseases and drug therapies used in the pediatric population, and to interact with members of unique patient care teams (safety & family-focused care). There are opportunities to counsel children or their caregivers about medications that the child needs to take upon discharge from hospital. Finally, this setting provides excellent opportunities to get practical experience with pharmacotherapy issues in a pediatric patient population (e.g., adherence to medication therapy; dosage form modifications for kids; drug dosing & pharmacokinetic changes in kids, etc).

4. Mental Health

The PsychHealth Satellite Pharmacy team members provide clinical and drug distribution services to patients in the PsychHealth facility 8 hours a day, 5 days a week. This team cares for adults that have psychiatric disorders (e.g., depression, acute psychosis, bipolar affective disorder, and schizophrenia).

If you are assigned to this area, you'll have many opportunities to interact with nurses, occupational therapists, social workers and psychiatrists while assisting your preceptor to deliver patient care. Pharmacists attend multi-disciplinary rounds. The pharmacists focus on medication adherence issues (managing adverse effects of drugs for psychiatric disorders), drug interactions, and pharmacotherapy monitoring of narrow-therapeutic range drugs. Pharmacists also assist the team with medication selection for non-psychiatric disorders (e.g., infections, nausea or vomiting, hypertension, diabetes, etc). Pharmacists also provide discharge counseling to patients that receive outpatient prescriptions from the PsychHealth Pharmacy. Students may have an opportunity to observe a psychiatrist interview a patient.

5. Emergency Medicine

The Emergency Department (ED) pharmacist works collaboratively with a multidisciplinary team to improve quality of care and patient safety in the emergency department. The ED is a unique environment - often chaotic and unpredictable - with high volumes and wide diversity of patients ranging anywhere from trauma, toxicology, pregnancy to chronic illnesses. The ED pharmacist focuses on safe and effective medication management, particularly in chronic illnesses, as well as identifying and resolving drug related problems contributing to patients' admission to the emergency department.

6. BMT/Acute Oncology

The BMT/GD6 Satellite Pharmacy team members provide clinical and drug distribution services to patients in the leukemia and blood/marrow transplant unit 8-10 hours a day, 7 days a week. This team cares for adults that have life-threatening blood or bone marrow conditions (e.g., leukemia, lymphoma, graft-vs-host disease, serious infections).

If you are assigned to the BMT area, you'll have many opportunities to interact with a wide range of health professionals while assisting your preceptor to deliver patient care. Pharmacists regularly consult with dietitians, social workers, nurses, home care workers, and physicians while caring for these patients. The pharmacists focus on the pharmacotherapy of issues such as serious infections, pain, bleeding, nausea or vomiting, mucositis, diabetes, and immunosuppression. Pharmacists also provide discharge counseling and continuity of pharmaceutical care with outpatient care providers. You might have an opportunity to observe a bone marrow harvest (operating room), transplant, radiation therapy, or other medical or surgical procedures that involve drug therapy. Pharmacists attend rounds daily with prescribers, nursing and allied health.

7. Renal Health

Pharmacists provide clinical services for inpatients and outpatients with renal health issues (e.g., dialysis, renal health). Pharmacists are part of a multidisciplinary health team; therefore you will have opportunities to interact with other health care professionals. Renal Health patients usually have multiple disease states and complex medication profiles. Pharmacists focus on preventing and resolving drug-related problems, safe and effective medication prescribing, answering drug information questions, and pharmacotherapy monitoring of narrow-therapeutic range drugs. The pharmacist provides discharge medication counseling to most patients.

8. Renal Transplant Program

A pharmacist provides clinical services for Manitoba's renal transplant patients in both inpatient and ambulatory care settings. The pharmacist is part of a collaborative inter-professional team; therefore, you will have ample opportunity to interact with other health care professionals. Renal transplant patients usually have multiple disease states and complex medication profiles. Pharmacists focus on preventing and resolving drug-related problems, safe and effective medication prescribing, answering drug information questions, and pharmacotherapy monitoring of narrow-therapeutic range drugs.

9. HIV (Health Sciences Centre & Nine Circles Community Health Centre)

Pharmacists provide clinical services for outpatients with HIV and sexually transmitted diseases. Pharmacists are part of a multidisciplinary health team; therefore you will have opportunities to interact with other health care professionals. HIV patients usually have multiple disease states and complex medication profiles. Pharmacists focus on preventing and resolving drug-related problems, safe and effective medication prescribing, answering drug information questions, and pharmacotherapy monitoring of narrow-therapeutic range drugs. The pharmacist provides medication education in small group and individual settings.