Bethesda Hospital PGY1 Residency Program Learning Experiences

Required rotations

Orientation
This rotation will orient the resident to hospital pharmacy and the responsibilities of a staff pharmacist. During this 8 week rotation, emphasis will be placed on learning the workings of the department from a technician, intern, and pharmacist role. The rotation will include utilization of Epic, ConnectRx, DoseEdge, Abacus, and HealthEast pharmacy policies. An initial self-assessment will take place so the resident can rate his/her strengths and weaknesses and will help identify opportunities for improvement.

Internal Medicine
This core rotation will focus on providing clinical pharmacy services to Bethesda Hospital and general Internal Medicine. During this 5 week rotation the resident will be responsible for attending patient care rounds each morning. The resident will also provide all clinical services to the care units under the supervision of the decentralized/clinical pharmacist. They will become familiar with the decentralized pharmacist’s responsibilities and procedures. The resident will also participate in our med reconciliation program, including obtaining med histories and discharge counseling. By the end of the rotation the resident should be able to effectively and efficiently provide clinical services to the hospital and be able to work as an effective decentralized pharmacist.

Infectious disease
The Infectious Disease rotation is intended to expose the resident to antibiotics, antifungals and antivirals most commonly encountered in the long-term acute care setting, and familiarization with antibiotic stewardship through active participation with St. Paul Infectious Disease team and Antibiotic Management Team (AMT) rounds. The resident will apply clinical knowledge and problem solving skills to treat common infectious diseases. The resident will design patient-centered, evidence-based regimens and will actively monitor regimens for efficacy and toxicity. The resident will demonstrate the ability to identify patients meeting criteria for AMT rounds. The resident will present patient cases to the rounding infectious disease physician, and will be responsible for documentation of interventions made during AMT rounds.

Critical Care
This rotation will provide the resident the opportunity to focus on patients requiring intensive care services and telemetry monitoring. The resident will work closely with the decentralized pharmacists assigned to the 5100 unit identifying medication issues, managing medication therapy, and responding to drug information questions. During this rotation the resident will be responsible for attending ICU multi-disciplinary rounds, inpatient “Code Blues” and Antibiotic Stewardship Rounds as needed for the patients on 5100. The resident will work closely with preceptor, team pharmacists, nursing staff, intensivists, hospitalists and many specialist providers (cardiologists, neurologists, neurosurgery NPs, etc.) to develop appropriate evidence-based care plans for 5100 patients.

By the end of the rotation, the resident should have a strong working knowledge of the pharmacist’s role in both telemetry and Intensive Care Unit patient care. They should also have a strong working knowledge of
a pharmacist’s role as a member of a multi-discipline care team. The resident should be able to demonstrate an understanding of the medical management of the common disease states seen on St Joseph’s ICU/telemetry unit such as ventilated patients, strokes (ischemic & hemorrhagic), post -p open heart, post-op neurosurgical patients, ICU delirium. The resident should be able to effectively, efficiently and independently provide clinical services to this patient care area. The preceptor and co-preceptors will be responsible for facilitating learning experiences, evaluation and routine feedback to the resident.

The primary preceptor and secondary preceptors will be responsible for facilitating learning experiences, evaluation and routine feedback to the resident.

**Respiratory Care**
This rotation will focus on providing clinical pharmacy services to Bethesda Hospital and the respiratory care team. The resident will be responsible for attending care service rounds and patient care rounds each morning. The resident will work directly with the respiratory care team at Bethesda on the respiratory units. They will become familiar with ventilator options, common disease states that directly impact respiratory care and treatment options. By the end of the rotation the resident should be able to effectively and efficiently provide clinical services to the respiratory care team. The preceptor will be responsible to facilitate learning experiences, evaluation and routine feedback to the resident.

**Traumatic Brain Injury**
This rotation will focus on providing clinical pharmacy services to Bethesda Hospital and our patient population that have suffered a traumatic brain injury. During the 5 week rotation, the resident will be responsible for attending care service rounds and patient care rounds each morning. The resident will also provide all clinical services to the care units under the supervision of the decentralized/clinical pharmacist. They will also become familiar with the decentralized pharmacist’s responsibilities and procedures. The resident will also participate in our med reconciliation program, including obtaining med histories and discharge counseling. By the end of the rotation the resident should be able to effectively and efficiently provide clinical services to the hospital and be able to work as an effective decentralized pharmacist.

**Pharmacy Practice Management and Leadership**
The Bethesda Hospital Pharmacy Practice Management and Leadership rotation will give the resident a thorough understanding of the Clinical Pharmacy Manager’s site and system roles. During this 5-week rotation the resident will actively participate in projects and processes that support the continuity of pharmacy care across the system. Objectives for this rotation will be achieved by completing assigned projects, active discussion with preceptor(s), and attending various interdisciplinary and administrative meetings.

**Medication Safety (longitudinal)**
The longitudinal medication safety learnings are designed to enhance leadership in medication safety by understanding or participation in activities related to local, state and national safety initiatives. The longitudinal learnings consists of areas of study, participation in one or more project activities, assignments, or activity that demonstrates the required learning and meets goals and objectives of the residency.

These learnings will provide the resident knowledge and experience to identify, develop and implement safe medication practices. The resident will gain knowledge through reading articles and publications on medication safety. The knowledge will then be applied to develop and implement initiatives to improve the medication use system. The resident will also work with various individuals and committees across the organization longitudinally to improve medication and patient safety.
Practice Related Research Project (longitudinal)
This longitudinal rotation includes the identification of a major residency project, and establishing aims, measures, methodology, IRB approval, data collection and analysis, and summary of conclusions. Resident will be required to present project findings at the Midwest Residency Conference and other appropriate forums. The resident will also complete a manuscript suitable for publication as required by ASHP. During the year, the resident will develop project management skills by conducting a practice-related project, including development of a timeline, to meet expected deadlines of the residency program. Resident will also learn to apply lean methodology principles to support sound practice improvement and project management skills.

Staffing (longitudinal)
This longitudinal rotation will allow the resident function as a hospital pharmacist and perform the responsibilities as a staff pharmacist. After completion of orientation and training, the resident will be expected to function as an independent practitioner. The resident will gain experience in performing the daily tasks of technicians, interns, and pharmacists. The resident will work with the Epic computer system and work in accordance with the HealthEast policies and procedures of the pharmacy.

Elective rotations

Geriatrics
The Geriatric rotation at HealthEast Bethesda Hospital will allow the resident to gain experience providing pharmaceutical care to patients in a geriatric care setting. It will focus on medical conditions associated with the geriatric population. It will emphasize on the appropriate treatment of disease states commonly seen in these particular patient populations. The resident will work closely with the pharmacists, physicians, nurse practitioners and ancillary staff to provide appropriate medical treatment in the hospital and clinic setting. By the end of the rotation, the resident will have a good working knowledge of common medication issues that arise in this population and be able to effectively resolve these issues.

Emergency Medicine
The Emergency Medicine Learning Experience will focus on the emergency management of patients in a busy 22-bed community hospital emergency department (ED). The resident will work closely with the ED pharmacist to provide clinical pharmacy services to patients in collaboration with various members of the ED care team. The resident will participate in codes, intubations, procedural sedations, obtain medication histories, research drug questions for providers, review antibiotic orders, and perform other daily operations expected of the ED pharmacist. By the end of the rotation, the resident should have a strong working knowledge of the pharmacist’s role in an ED as well as his or her role as a member of a multi-disciplinary care team.

Informatics
This rotation will help the resident become familiar with the key principles utilized in hospitals and health systems to improve pharmacy informatics, automation and health information technology. The resident will primarily work with the pharmacy leadership staff at HealthEast and secondarily with members of the Pharmacy Informatics department. The resident will learn by directly working with the automation software, discussing topics and readings with the preceptor and other pharmacy staff, through shadowing opportunities and by attending other meetings relevant to the rotation. The preceptor will be responsible to facilitate learning experiences, evaluation, and routine feedback to the resident.

Medication Therapy Management
The medication management (MTM) rotation is an elective learning experience that will take place within several of the HealthEast clinics and/or specialty clinics. This rotation will expose the resident to outpatient
management of patients and highlight how this differs from inpatient management. There is a focus on chronic disease management and direct patient care.

During this rotation, the resident will work collaboratively with the primary care team to address each patient’s medication related concerns to help the patient get the most benefit from his or her medications. The resident will advance his or her clinical skills through extensive direct patient care experiences and develop competency in providing evidence-based, patient-centered medication management services. The resident will comprehensively review the patient’s medications, assess vital signs, evaluate laboratory results, identify drug therapy problems and practice motivational interviewing skills in order to develop a treatment plan with the patient.

**Anticoagulation Management Clinic**
The Anticoagulation Management Learning Experience is an elective rotation that focuses on the outpatient management of anticoagulation. The HealthEast Anticoagulation Clinic is a centralized management service comprised of both registered nurses and pharmacists that share the responsibility for anticoagulation management of over 2000 HealthEast primary care patients. Utilizing a collaborative practice agreement, pharmacists in the anticoagulation clinic provide anticoagulation therapy management, bridging guidance and drug therapy selection. During this rotation, the resident will work collaboratively with the pharmacist to monitor, assess and develop anticoagulation management plans. The resident will advance his or her clinical skills through extensive patient care contact and gain practical experience developing evidence-based recommendations for medication management plans. Additionally, the resident will assist in providing education and drug information to other members of the care team including providers, nurses and other clinic support members.

**Mental Health and Addiction Medicine**
This rotation will focus on the treatment of mental health patients in the inpatient setting. The resident will work as part of an interdisciplinary team to treat commonly seen disease states such as bipolar disorder, schizophrenia, depression, anxiety, and substance use disorders. The resident will be responsible for following patients throughout the course of their admission by performing order verification, answering drug information questions, identifying medication interventions, and completing pharmacist consults. The resident will also be responsible for attending patient care rounds twice weekly and medication education group once weekly. Topic discussions and patient case presentations will be held daily with preceptors. The primary preceptor and secondary preceptors will be responsible for facilitating learning experiences and providing routine feedback.

**Oncology/Immunology**
This rotation provides an opportunity for residents to provide care for those patients diagnosed with solid tumor malignancies, myeloma, myelodysplastic disorder, chronic leukemia and lymphoma. In addition to learning about these malignancies, the resident will gain experience in immunotherapies given in an infusion center for non-oncologic diseases. The resident is expected to be a drug information resource to the team. Additional rotation activities include topic discussions, participation in patient education of chemotherapy regimens, and development of new chemotherapy protocols. Residents may have other activities including pharmacy and nursing in-services or small projects.

**Pain Management**
The focus of this rotation is providing acute pain management services to hospitalized patients. A primary focus will be pain experienced by Orthopaedic/Spine surgery patients as well as pain management in other patient populations such as general surgery, sickle cell, oncology related pain, and acute on chronic pain in medical patients. The resident will assist the HealthEast Acute Pain Team in performing pain assessments on patients, identifying pain management issues and
problems, developing a pharmacological care plan with the interdisciplinary team, implementing and monitoring the plan, and participating in discharge planning. An emphasis will be placed on developing the resident’s knowledge in multimodal post-operative and medical pain management.

The residents will interact daily with members of the inpatient and outpatient interdisciplinary team, consisting of physicians, advanced practice nurses, bedside nurses, occupational therapists, acupuncturists, and pharmacists. Residents will attend weekly care rounds, as well as daily review of patient medications, outcomes, and side-effects.

**Lean Process Improvement**
This rotation will help the resident become familiar with the key principles of the Lean improvement system utilized at HealthEast. The resident will learn about Lean, the common Lean tools utilized by HealthEast, and how to leverage these tools to improve the way we complete our work. The resident will gain an understanding of the core principles of the HealthEast Lean system, including, but not limited to; Front Line Management System, Standard Work, A3 Thinking, Strategy Deployment, Value Stream Mapping, and the Gemba. The preceptor will be responsible for facilitating learning experiences, evaluation, and providing routine feedback to the resident.

**Teaching Certificate (longitudinal)**
The HealthEast Teaching Certificate is an elective longitudinal learning experience available to HealthEast pharmacy residents. The purpose of the teaching certificate elective is to develop the teaching, precepting, and mentoring skills of residents so they will be better equipped to provide education as clinical practitioners. The teaching certificate elective will require the resident to cultivate teaching skills through self-study, group discussions, focused activities, providing and attending education lectures, co-precepting students, providing feedback to students and peers, and self-reflection. At completion of this learning experience, the resident should have strong teaching skills and the confidence to provide education effectively in a clinical setting.

**Long-term Acute Care Elective (elective for St. Joe’s and St. John’s residents)**
This rotation will focus on providing clinical pharmacy services to long-term acute care patients at Bethesda Hospital. Areas of focus include traumatic brain injury, respiratory care, complex wound care, and complex medical care. During the 5-week rotation, the resident will be responsible for patient care rounds each morning and providing all clinical services to the care units assigned under the supervision of the decentral/clinical pharmacist. The resident will become familiar with all responsibilities of the decentral/clinical pharmacist. By the end of the rotation, the resident should be able to effectively and efficiently provide clinical services to long-term acute care patients.