

Learning Experiences for St. John's Hospital PGY-1 Residency

Required Experiences

- Ambulatory Care (Longitudinal – 6 month, half day once a week)
 - Choice of: Anticoagulation Clinic – Ambulatory/Primary care clinic with a focused, longitudinal experience in anticoagulation. Resident will evaluate, monitor, and manage drug therapy associated to patient's anticoagulation and other pertinent drug therapy or medical conditions. Resident will work within the collaborative practice agreement of the preceptor.
 - HIV Clinic – Resident will work with SIU Infectious Disease at the SIU Ambulatory Care Clinic to provide HIV care to HIV+ patients while working with SIU attendings, residents and staff, and community organizations to improve patient specific care as well as HIV care in the Central Illinois Community.
 - Congestive Heart Failure Clinic – Resident will follow patients in the Hospital to Home clinic with a focused experience in heart failure. Resident will review medications and work with the nurse to educate patients about management of their condition.
- Pharmacy Practice Experience (Service Component): The Pharmacy Practice rotation is a longitudinal 12 month learning experience. This rotation is the resident's pharmacy staffing responsibilities. The rotation will take place in the St. John's Hospital Pharmacy department which consists of a central pharmacy area, IV room area and departmental services area. After completion of the Pharmacy Orientation rotation, the pharmacy resident is responsible for providing staff pharmacist coverage every other weekend. As a staff pharmacist, the resident is responsible for having a working knowledge of the pharmacy department, identifying and resolving medication therapy issues, and answering questions from the physicians and nurses related to patient care. By January of the residency year, the resident should be staffing as the charge pharmacist on the weekends, managing all day to day functions in the main pharmacy.
- Medication Safety/Quality Experience: Medication Safety/Quality is a longitudinal learning experience at St. John's Hospital Springfield Referral Division. The pharmacy resident will be assigned to a quality initiative and will be responsible for reviewing, summarizing, preparing recommendations, and presenting the data at Medication Management Meetings and Pharmacy and Therapeutics Committee Meetings. This learning experience will focus on education of the following teams: pharmacy, nursing, physicians, patients, and administration. Good communication, time management, and interpersonal skills are vital to the success in this experience. The resident must devise efficient strategies for accomplishing the required activities in a limited time frame.

- **Drug Information Experience:** The resident will be responsible for formulating appropriate responses to drug information requests; documenting requests from contracts, SIUE preceptors and St. John's pharmacists; presenting a formal journal club; participating in wellness activities as needed, producing a professional writing project (e.g. formulary monograph, article for publication); participating in peer review process for a pharmacy journal if the opportunity is available; and creating and participating in topic discussions with faculty and fourth year students throughout the residency year.
- **Pharmacy Leadership:** The Department of Pharmacy Services includes the divisional director of pharmacy, operation managers at each site, clinical, information technology pharmacy facilitators and secretarial support. The purpose of the leadership rotation is to involve the resident with the central management team by experiencing functions and concepts of how the department is managed. The rotation allows the resident to identify with and become a dynamic part of the pharmacy management team.
- **Internal Medicine:** The rotation is designed to give the resident a basic understanding of disease states commonly encountered in adult internal medicine. This rotation will stress the application of therapeutics in patient care and require the resident to develop skills in proper drug therapy selection, patient monitoring, pharmacokinetics, patient education, interprofessional education, and delivery of pharmaceutical care to hospitalized adult patients.
- **Pediatrics:** The resident will work in a decentralized satellite pharmacy located in the Women and Children's Center responsible for pediatric, neonatal, and birth center patients. The resident will be expected to participate in a multidisciplinary medical team which cares for patients in the Pediatric Intensive Care Unit (PICU). The resident will also be actively involved in the daily functions of the Pediatric Pharmacy Satellite. These activities include: monitoring patients on aminoglycoside and/or vancomycin therapy, chart review of patients on the general and intermediate care units, assisting with physician requests, and providing medication education to patients.
- **Critical Care:** The resident will round with the SIU Critical Care team which consists of an attending physician, a pulmonary fellow, 3 residents, medical students, nursing staff, respiratory therapists, and other ancillary staff. The rotation will take place in the St. John's Hospital ICU and CCU departments which consists of 18 beds divided among 4 modules. You will monitor medication use for vancomycin, aminoglycosides, warfarin, renally adjusted medications, and various other medications as appropriate. The resident will be expected to answer questions from the team, research any topics related to the care of the patient, lead topic discussions weekly, and present case studies weekly as they relate to the specific disease states listed.
- **Pharmaceutical Care:** The Point of Care (POC) pharmacist is assigned to a decentralized position and is responsible for order verification as well as clinical activities for the floor to which they are assigned. During the POC learning experience,

the resident will be assigned to one of the decentralized positions. The resident is responsible for pharmaceutical care for all patients on their assigned floor. This is to include, but is not limited to: consults from physicians (including kinetics), antibiotic streamlining, IV to PO switch, renal dosing and patient teaching.

- **Pharmacy Practice at a Community Hospital:** The Pharmacy Practice in a Community Hospital is an experience at one of three Hospital Sisters Health System community hospitals. St. Francis Hospital is a 25-bed Critical Access Hospital located in Litchfield, IL. The hospital consists of ICU, Acute Care, Labor and Delivery, Surgical and Emergency Medicine Departments. The purpose of this rotation is to introduce and support the development of expert skills, practice philosophy and competency in pharmacy practice in a community hospital. Responsibilities may include drug distribution activities, providing drug information, monitoring patient pharmacotherapy regimens, computer order entry, supervision of support personnel, reviewing medication profiles, providing drug information, implementing pharmacotherapy and monitoring patient regimens. These activities entail substantial involvement with patient education and frequent interaction with other health care providers.

Elective Experiences

- **Advanced Internal Medicine:** This rotation is designed to expand upon the resident's knowledge of disease states commonly encountered in adult internal medicine with an additional focus on education. This rotation will require the resident to continue development of his or her skills in proper drug therapy selection, patient monitoring, pharmacokinetics, patient education, interprofessional education, and delivery of pharmaceutical care to hospitalized adult patients.

- **Advanced Pediatrics:** The pharmacy resident will be responsible for identifying and optimizing medication therapy for all pediatric patients throughout the learning experience, with a primary focus in the Neonatal Intensive Care Unit. The resident will be allowed to choose a clinical focus for the rotation (diabetes, asthma, nutrition, neonatal intensive care, pediatric oncology).

- **Antibiotic Stewardship:** In contrast to the Infectious Diseases learning experience, this experience aims to provide pharmaceutical care and optimize antimicrobial use. The resident works with the antimicrobial stewardship pharmacist to identify, prevent, and resolve drug-related problems in patients receiving antimicrobials. In addition to conducting surveillance activities to promote the rational, safe, and cost-effective use of antimicrobials, the resident will gain valuable experience in developing educational strategies, updating formulary and hospital policies, and designing initiatives and programs to improve antimicrobial usage.

- **Emergency Medicine:** The Emergency Department (ED) is a 35-bed department, which includes a 3-bed Trauma center. The ED also contains a radiology area that allows for CT scans and portable chest x-rays. This rotation will provide a PGY1 resident the opportunity to gain insight into Emergency Medicine Pharmacy Practice. The resident is responsible for actively collaborating with the ED team to promote medication use that is safe, cost-effective, evidence based, and aligned with national quality indicators. The resident will work towards addressing and resolving medication issues found among ED patients. The resident will provide constant physician and nurse education to prevent medication errors and adverse events, as well as actively participating in the appropriate monitoring of medications.

- **Home Infusion Pharmacy:** The Home Infusion Department provides a continuity of specialty pharmacy services to the patient in their home after discharge from the hospital. Therapies include antibiotics, antifungals, antivirals, chemotherapy, hydration fluids, inotropic agents, pain management, corticosteroids, antiemetics, growth hormones, colony stimulating factors, total parenteral nutrition and enteral nutrition. The pharmacy resident is responsible for identifying and resolving medication therapy issues for patients being serviced from the Home Infusion Department. This will include screening the patient's current home medications with the department provided medications for any potential adverse interactions. The resident will provide therapeutic monitoring and clinical consulting services for aminoglycosides and vancomycin, monitor TPN therapy and consult with the physician in adjusting formulas based on patient profile and lab values, determine how best to administer a medication based on patient age, drug stability, and insurance coverage as well as concluding appropriate dosage and concentration based on multiple criteria.

- **Health System Administration (at HSHS):** The teaching team includes the System Director of Pharmacy as well as Pharmacy Directors and Clinical Managers at the local systems of each of the hospitals within the system. The pharmacy resident is responsible for reviewing formulary issues and completing at least one formulary monograph to be used at one or more hospitals within the system. The development should include a toolkit to be used at the hospital level to implement the formulary proposal, the cost-savings impact that can potentially be achieved at the hospital and system level, and a monograph for presentation to the P&T committee. The Healthtrust website should be utilized as a resource for formulary guidance and active or pending contracts.

- **Infectious Disease:** This learning experience in an acute care setting is designed to provide the resident with clinical training specifically in the pharmacotherapeutic management of infectious diseases (ID). Activities will take place at Memorial Medical Center (MMC), Saint John's Hospital (SJH), and the Southern Illinois University (SIU) School of Medicine (SOM) clinics in Springfield. At any given time, the ID consult team includes an attending physician and ID fellow, three internal medicine residents, two pharmacy students and sometimes one or two medical students. The resident will have

the opportunity to participate as an active member of the ID consult team, making drug therapy recommendations and monitoring patients for both positive and negative outcomes. This rotation will provide practical skills in antimicrobial drug selection along with clinical pharmacokinetics regarding dosing and monitoring of antimicrobials including vancomycin and aminoglycosides. The resident will be responsible for presenting an oral journal club to the ID team as well as the successful completion of a clinical project or presentation.

- **Investigational Medicine (Longitudinal):** There are approximately 20-30 ongoing studies that the pharmacy is participating in at any given time. The Investigational Pharmacist's duties include storage, accountability, preparation and dispensing of investigational drug products. The pharmacy resident will be responsible for coordinating, collaborating and providing expertise in support of clinical investigational drug trials at St John's Hospital pharmacy. The pharmacy resident will participate in the education of pharmacy staff and students regarding investigational drug therapy. The pharmacy resident will provide accurate and efficient dispensing of investigational medication.
- **Med/Psych:** The scope of practice encompasses patients with psychiatric, medical, and combined illness. By integrating evidence based practice and current practice guidelines with case-based teaching, the resident will facilitate the development of problem solving strategies to navigate through psychotropic-related situations pharmacists may encounter in patient care. Clinical practice includes modeling the ideology of maintaining hope for recovery and for the reduction of stigma against individuals challenged with mental illness.
- **Medication Safety/Quality (at HSHS):** For the learning experience at Hospital Sisters Health System, the teaching team includes the Director of Clinical Quality Improvement and Chief Quality Officer from the system office as well as at least one RN and or Respiratory Therapist at the local systems of St. John's and St. Mary's Hospitals in central Illinois. The pharmacy resident is responsible for identifying adverse events (harm) and measuring the rate of adverse events over time using a retrospective review of a random sample of inpatient hospital records using "triggers" to identify possible adverse events and to produce a sampling approach to determine harm rates and observe improvement over time.
- **Transitional Care/Geriatrics:** The pharmacy resident will work with the hospice and transitional care interdisciplinary teams and will be responsible for identifying and resolving medication therapy issues for all patients on these units throughout the learning experience. This rotation will focus on the medication regimen review based on OBRA Regulations, appropriate medications and doses for the geriatric patient, pain management for chronic and acute pain, along with education of pharmacy students, interdisciplinary team members, patients, and pharmacy staff. The resident will provide

medication counseling for patients on the transitional unit and a geriatric-related pharmacy competency or in-service which may be in the form of a case presentation.

- Trauma: The trauma service rotates yearly between St. Johns Hospital and Memorial Hospital, both in Springfield, Illinois. The trauma team consists of an attending physician, a 4th year chief resident, a 3rd year ICU resident, 2-3 additional residents and possibly med students. Other disciplines on the team include the clinical pharmacist, pharmacy students, a radiology technician, a physical therapist, a speech therapist, a respiratory therapist, a utilization review nurse, a trauma nurse specialist, and the primary nurse. Surgical patients and trauma patients are followed by the team. The pharmacy resident is responsible for monitoring the progress of all trauma patients. This includes identifying and resolving medication therapy issues. The resident will provide therapeutic drug monitoring services for patients on the team receiving drugs requiring monitoring including, but not limited to, aminoglycosides and vancomycin. Resident will be expected to answer questions from the team and research any topics related to the care of the patient.