

PGY1 Pharmacy Residency

Learning Experiences

Orientation (Required)

- 3rd or 4th week of June – 2 days for LMH Health New Employee Orientation
- Pharmacy orientation starts in July. Orientation is intended to introduce the resident to LMH Health and the department of Pharmacy. The orientation block will capture most, but not all training including: computer-based order entry, bar-code scanning, electronic health record, documentation, primary dispensing, IV admixtures, automated dispensing cabinets, ordering, packaging, storage, distribution and controlled substance processes. Each resident will be introduced to the pharmacist code response training with an emphasis on code cart navigation, BLS and ACLS. The remainder of orientation will expose the residents to the responsibilities of pharmacy clinical services throughout the Health-System.

Internal Medicine (Required)

- Internal Medicine is typically the first or second learning experience of the residency. The responsibilities of the resident include all aspects of patient care (medication histories, review of patient profiles, monitoring and managing medications, managing chronic conditions, consults, drug information, patient counseling and health care professional education. Each resident learns how to navigate among the patient care team (physicians, nurse practitioners, physician assistants, respiratory therapist, nurse, social worker and outside health care professionals) to manage their medications across the healthcare continuum.

Medical-Surgical (Required)

- Medical-Surgical is the other learning experience that is scheduled in the first two months of the residency. This experience involves the items described in internal medicine with an emphasis on post-operative care for the following surgical teams: orthopedics, spine care, general surgery, and gynecological surgery. Other specific patient populations during this experience include: oncology, pediatrics, and obstetrics. The residents will also gain experience leading LMH Health Joint Class, a class to teach patients about knee and hip arthroplasties. The residents also have the opportunity to coordinate pre-operative medication histories for patients attending Joint Class as well as Spine Class, an educational session to teach patients about spinal fusion and laminectomy procedures. The topic discussions in this experience typically focus on anticoagulation in the perioperative period, total parenteral nutrition and pain management; however, discussions typically expand based on the patient population at the time of the rotation.

Learning Experiences

Critical Care (Required)

- This learning experience focuses on the pathophysiology, treatment and prevention of disease states and complications encountered in critical care. At the end of this rotation, residents should understand respiratory failure, ventilation and hemodynamic support, acute myocardial infarction, stroke and common toxicology treatment pathways. The residents will actively participate in ICU rounds, closely monitor safety and efficacy of treatment plans, participate in discussions of critical care topics with preceptors and/or pulmonologist, provide drug information to the healthcare team, prepare and present one nursing in-service.

Oncology (Required)

- The Oncology Center at LMH Health is an ambulatory care clinic with five hematologists/oncologists, one ARNP, eighteen nurses and fifteen treatment rooms. The Oncology Satellite Pharmacy is staffed Monday through Friday by two pharmacists and two technicians. The pharmacy primarily provides outpatient chemotherapy and supportive medications, but does oversee the limited amount of inpatient chemotherapy as well. Additional responsibilities include drug information for patients and staff, patient education, investigational drug inventory maintenance and oncology specific formulary review.

Long-Term Care “Skilled Nursing Facility & Acute Rehab” (Required)

- The responsibilities for this experience are similar to internal medicine with an emphasis on chronic disease management and transitions of care. The patients on this unit typically stay for greater than one week and are often transferred to and from other healthcare facilities. The patients and their caregivers appreciate the support of a pharmacist to assist with education and navigation across continuums of care. In this rotation, the residents are exposed to the pharmacist’s responsibility for meeting state regulatory requirements for skilled nursing facilities and acute rehabilitation centers. Based on resident interest, this rotation also provides the opportunity to round with the pain and palliative care team.

Emergency Medicine (Required)

- Pharmacists deliver patient care in the emergency department from 6AM to 11PM, 7 days per week. This is covered by one 8-hour shift and one 12-hour shift. The resident learning experience is customized based on the interest level of the resident. Residents will work with emergency room nurses, physicians, nurse practitioners, physician assistants as well as first responders, respiratory therapists and social work. This experience emphasizes code blue response, medication evaluation team events, code stroke, code STEMI and code trauma. Patients with complicated medication issues or those to be admitted receive a pharmacist consult for medication history and comprehensive medication review. Medication education and patient assistance will be provided to patients discharged home from the emergency department.

Learning Experiences

Infectious Disease (Elective)

- Residents may complete this experience after successful completion of Internal Medicine and Medical-Surgical. The resident will round one-on-one with an infectious disease specialist on consulted inpatient cases. Based on interest, the resident may set-up time to shadow in the outpatient clinic as well. The resident will attempt to optimize the use of evidence-based medicine in the treatment of consulted patients, respond to drug information requests, and deliver exceptional education to patients and their caregivers. In addition to patient care, residents may tour the microbiology lab and consult with the microbiologist or pathologist as applicable.

Cardiology (Elective)

- This rotation is available in the 2nd half of the residency. Residents have the opportunity to round one-on-one with the inpatient cardiologist and his or her cardiology nurse, participate in outpatient clinic appointments with a clinic cardiologist, provide education as consulted by staff in Cardiac Rehabilitation and observe cases in the Cardiac Cath Lab. This experience helps the resident focus on cardiac related medication treatment plus understand the experience of cardiology patients as they move through the process of diagnosis, treatment and follow-up of various cardiac related conditions.

International Experience in Kenya, Africa (Elective)

- This learning experience involves collaboration with the “Kansas 2 Kenya” Medical Mission Team and Faculty at the University Of Nairobi School Of Pharmacy. The residents work with a team of physicians, nurses, pharmacists and support staff to plan a 10+ day trip with 3-5 clinic days. Professional roles and responsibilities vary from year to year. Residents educate the team on travel vaccinations and assist with procurement and transportation of medications for the mission. Exposure to various Sub-Sahara tropical disease including malaria, cholera, AIDs, tuberculosis, helminthes, pulmonary diseases and irritant eye disease including trachoma are reviewed for this learning experience. Educational programming for the University Of Nairobi School Of Pharmacy varies with topics consistently involving the pharmacist’s role in vaccinations, advancement of pharmacy services and leadership.

International Experience in Khon Kaen, Thailand (Elective)

- LMH Health Pharmacy has a formal educational agreement with the Faculty of Pharmaceutical Sciences at Khon Kaen University (KKU) in Khon Kaen, Thailand. Pharmacy residents have the opportunity to complete a 4-week learning experience, primarily in the area of oncology and academia with a board-certified oncology pharmacy faculty member. The KKU Pharmacy Practice Department has an active residency program of its own and affords the resident a unique perspective on how pharmacy is practiced abroad while interacting with pharmacy peers. Pharmacy students from KKU travel to LMH Health as well in the fall semester providing opportunity for the residents to precept international students.

Learning Experiences

Teaching Certificate (Longitudinal – Required)

- Residents participate in the UMKC Residency Teaching Certificate Program. A variety of teaching and mentoring opportunities are available including:
 - Didactic lectures at University of Kansas School Of Pharmacy (KU SoP)
 - Facilitation of skills lab or clinical assessment course
 - Precepting IPPE and APPE students from KU SoP
 - Mentor of employed clinical interns at LMH Health
 - Educational presentations to various disciplines at LMH Health
 - Educational events for the community

Medication Safety & Clinical Coordination (Longitudinal – Required)

- Residents contribute to the improvement of the medication use process throughout the year. Responsibilities vary from year to year based on the needs or Strategic Plan of the Health-System. Residents are active members on the following LMH Health committees:
 - Medication Use Team (A Focus on Improving Medication Safety across the Health-System)
 - Antimicrobial Stewardship
 - Pharmacy & Therapeutics

Pharmacy Management & Leadership (Longitudinal – Required)

- Residents gain an appreciation for the importance of pharmacy management and leadership. Through a series of readings, interactions with the preceptor and assignments, the resident understand the pharmacy's role in the Health-System, including budget preparation of a selected line item of the pharmacy budget. Residents will be involved in human resource issues including recruiting, hiring, firing, mentoring, employee evaluations and disciplinary action. Pharmacy presence at meetings both as a member and a leader will be emphasized.

Main Rx (Longitudinal - Required)

- Residents staff in the inpatient pharmacy one evening per week and every 3rd weekend. The residents gain an understanding of all pharmacy operations. The inpatient pharmacy is the hub for all drug information questions for LMH Health and the community; therefore, providing a broad learning experience for the residents. In addition to services for inpatients, the pharmacy services the two infusion clinics who treat patients with a variety of disease states requiring specialty infusions or outpatient antibiotics.

Learning Experiences

Ambulatory Care (Longitudinal – Required)

- The resident will participate in three longitudinal ambulatory care experiences. The Anticoagulation Clinic is a referral based clinic for warfarin management. The Heartland Clinic is a multi-disciplinary clinic serving the medically underserved population in the Lawrence area. This clinic provides opportunity for the resident round with clinic providers & see patients for MTM or chronic disease management referrals. The Medication Therapy Management Program is coordinated by the LMH Health-System Pharmacy. LMH Health Employees & their dependents schedule quarterly visits with a pharmacist to optimize medication selection and education as well as maintain up to date vaccinations.
 - Anticoagulation Clinic – ½ day per week for 6 months
 - Heartland Clinic – ½ day per week for 6 months
 - Future rotations will be available in LMH Patient Centered Medical Home (PCMH) Clinics. Pharmacists will start in those clinics in fall of 2018!

Quality Improvement Projects (Longitudinal – Required)

- Residents complete one major and one minor project to advance the clinical or operational aspects of patient care. Residents serve as project managers who receive support and oversight from preceptors. The primary purpose of this experience is for each resident to gain experience in the development, coordination, implementation, analysis, sustainability and presentation of Health-System based projects. All residents are encouraged to submit their projects for publication; however, publication is not required to obtain the residency certificate.
 - Minor Project – Presented at ASHP Midyear
 - Major Project – Presented at Midwest Pharmacy Residency Conference
 - Either project may be presented at the KCHP Annual Spring Meeting

Customized Residency Learning Experience (Elective)

- “The ASHP PGY1 residency accreditation standard defines residency customization as the essential process by which the “generic plan” for resident training is restructured to optimize resident experiences based on specific “strengths, weaknesses, and interests.” AJHP Vol 70 Jun 15,2013
- Other customized-elective learning experiences may be designed upon the request of the resident with approval of the Residency Advisory Council (RAC).