

UNIVERSITY MEDICAL CENTER, INC.

University of Louisville Hospital / James Graham Brown Cancer Center

University of Louisville Hospital PGY1 Pharmacy Residency Program Summary

Positions Available: 4-6 positions, 12-month contract

Application Deadline: Early January (see PhORCAS)

Requirements: On-site Interview, CV, 3 References, Official Transcript from ACPE Accredited College of Pharmacy (or pending accreditation)

Starting Date: Late June

Estimated Stipend: Approximately \$47,900/year

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Core Rotations:

- **Orientation** (5-6 weeks): Orientation to the hospital, pharmacy, drug distribution systems, computer systems, unit dose and IV admixture programs. Resident will also be oriented to the clinical services, policies/procedures, evaluation process within Pharmacademic, residency jobs, graduation requirements, and the drug information/research timeline. This will include multiple meetings with preceptors for focused topic discussions (research pearls, TPN, chemo preparation, crash cart, study medication process, IV pumps, etc). Residents will also be recertified (if needed) in BLS and obtain ACLS.
- **Internal Medicine** (1 month): Orientation to patient care areas and provision of pharmaceutical care for patients on general medicine floors, rounding with an internal medicine team, patient counseling, vaccine screening, pharmacokinetic drug monitoring, in-service physicians and nurses, medication reconciliation, clinical intervention documentation, attend medical group rounds, and begin to develop precepting skills through interaction with Pharm.D. APPE students on rotation.

- **Critical Care** (1 month, Medical, Surgical or Neuro ICU): Participate in the interdisciplinary care of patients in the medical, surgical or neuro intensive care units while rounding with the MICU, Trauma or Neuro-anesthesia teams, actively monitor antibiotic use as part of the Antimicrobial stewardship team, extensive pharmacokinetic drug monitoring, presentations to physicians and nurses, clinical intervention documentation, medication reconciliation, and begin to develop precepting skills through interaction with Pharm.D. APPE students on rotation.
- **Medical Oncology** (1 month): Participate in daily patient care rounds with the Medical Oncology service (attending physician, 1-2 oncology fellows, medical residents, pharmacist, and medical students), actively monitor antibiotic use, provide pharmacokinetic drug monitoring, identifying and resolving and medication related issues for patients on the medical oncology service, provide in-services to physicians, nurses, pharmacists, become familiar with the primary literature related to the common chemotherapy regimens, learn to review and verify chemotherapy orders, assess and make recommendations regarding nutritional needs, vaccine screening, medication reconciliation, clinical intervention documentation, and provide medication or discharge counseling when needed.
- **Ambulatory Care** (1 month): Focus on outpatient primary care and transitions of care. Function independently in the outpatient pharmacy area including prescription processing and patient counseling, understand prescription drug programs for the un/under-insured population, lead patient visits in the anticoagulation and diabetes management clinics, independently monitor drug therapy and patient adherence to drug regimens, provide tailored patient education about disease states and therapeutic plans.
- **Administration** (1 month): Participate in staff planning activities, learn process of developing pharmacy budget, effective leadership strategies and communication techniques, understand available technology and automation in regards to safe medication use processes, trending of adverse drug events/medication errors, exposure to various management strategies, develop skills to create a new service within the organization, and multiple opportunities to interact with department and institution administration teams.
- **Infectious Diseases** (1 month): Participate in daily academic rounds with the Infectious Diseases consult service at ULH that provides consultative services to patients within the entire hospital, actively monitor antibiotic use for drug appropriateness, dosing, duration, route, monitoring and efficacy, communicate ongoing patient information/labs to team on a daily basis, extensive pharmacokinetic drug monitoring, pharmacodynamic dosing adjustments, clinical intervention documentation, vaccine screening, and patient/physician medication-related education as needed.

- **Elective Rotations** (4, 1 month): Residents may choose from the following: Emergency Department, Stroke, Outpatient Infectious Diseases (HIV/Hep C), Pharmacy Informatics, Neonatal Intensive Care Unit, Bone Marrow Transplant, Outpatient Oncology clinics, DM MTM, Inpatient Psychiatry, EM/Toxicology or additional experience designed per resident interest. Of note repeat rotations require learning experience approval and must be different goals/objectives and activities from the original rotation. Additional elective opportunities are available at off-site locations: Academia, Cardiology, Solid Organ Transplant, Pediatrics, and Managed Care. Off site rotations must be arranged as early as possible to allow for communication and scheduling purposes and are limited to 2 months (Ex. Academia, SUCOP).

Longitudinal Rotations: (Throughout the year)

- **Drug Information:** Provided in all rotations, continuous documentation of drug information provision (written and verbal), participation in the P&T committee, completion of medication use evaluation including development of criteria, collection, analysis of data and presentation of results, development/revision of policies, formulary monograph preparation and presentation, development of an organized system for staying current with pertinent literature, evaluating usefulness of biomedical literature, documentation of direct patient care activities, and providing concise, applicable and comprehensive medical writing.
- **Resident Research Project:** Residents will gain experience in the design, department education and implementation of a new medication study and/or in-depth evaluation of medication use processes. Residents will complete a year, long residency research project, submit the project proposal to the Residency Research Advisory Committee, obtain approval from the hospital Institutional Review Board (IRB), collect and analyze data, prepare a poster for presentation at ASHP MCM, present the final project results at the regional residency conference, and prepare a final manuscript suitable for publication.
- **Teaching & Learning:** Residents assist with teaching/precepting of Pharm.D. students during core rotations and student case conferences. Residents participate in a Teaching Certificate Program (Sullivan University College of Pharmacy). Additional activities include: providing lectures for Sullivan University College of Pharmacy, leading small group discussions/sessions, and presenting CE lectures at Sullivan University, College of Pharmacy Grand rounds and to the University of Louisville pharmacy department.
- **Staffing/Service Commitment:** Residents will learn to effectively staff the inpatient pharmacy by learning to prepare and dispense medications according to facility requirements, staffing every 3rd weekend (clinical and distributive), one 4-hour Mon-Fri evening shift every 6th day (3-7pm) and 5-6 (8 hour) shifts during December Research/Office month (based on 6 resident staffing model; subject to

change based on numbers of PGY1 residents). Residents will hone their prioritization skills while integrating information systems into their daily practice, learning Chapter 795/797/800 clean room guidelines, drug informational skills when fielding questions from physicians/nurses, staff supervision skills, dispensing systems, automation/robotics, clinical documentation, decentralized order entry to ensure safe and appropriate medication therapy for patients.

- **Antimicrobial Stewardship:** This longitudinal experience is designed to provide an introduction of key infectious diseases (ID) concepts and syndromes, while exposing the resident to antimicrobial stewardship practices that benefit the patient and the healthcare system. The resident will perform real-time audits of patients in the acute care setting at University of Louisville Hospital (ULH) to evaluate and determine appropriate antimicrobial therapy. The goal of this learning experience is to optimize patient care while minimizing unintended consequences of antimicrobial use. The resident will gain antimicrobial awareness and knowledge throughout each quarter. Additionally, the resident will be exposed to key duties and responsibilities of the antimicrobial stewardship team to gain insight into the multi-disciplinary strategy for optimal outcomes.

Other Program Opportunities:

- **Benefits:** medical, dental, vision, 401k retirement plan, flexible spending account, and life insurance.
- **Travel:** Residents attend ASHP-MCM, Great Lakes Pharmacy Resident Conference, Kentucky Pharmacy Residency Network meetings and KSHP meetings (as needed). Interview leave is granted at the discretion of the residency director.
- **Vacation / Holidays:** Residents will receive approximately two weeks paid vacation (1 w/leave, 1 w/out leave) and will staff 2 holidays per year.
- **Residency Banquet and Cook-Out**
- **Residency Team Building, Resident Night at Churchill Downs**
- **Resident Jobs**

PGY2 Residency Programs for 2019-2020:

- **PGY2 Oncology (1-2 positions)**
- **PGY2 Critical Care (1 position)**
- **PGY2 Ambulatory Care (1-2 positions)**
- **PGY2 Internal Medicine (1 position)**
- **PGY2 Emergency Medicine (1 position)**