

Learning Experiences

PGY1 Pharmacy & PGY2 Pediatric Pharmacy Residency Programs

ROTATIONS

General Pediatrics

During the PGY1 year, each resident will start their clinical rotations with general pediatrics in order to further familiarize themselves with our institution as well as build foundational knowledge. For PGY2 residents, this is an opportunity to precept a fourth-year pharmacy student advance practice pharmacy experience (APPE).

Cardiology Gastroenterology Nephrology Pulmonology

These "selective" rotations give residents the opportunity to focus on individual organ systems and patient populations within the acute care setting. These services include collaboration with both medical students/residents as well as advanced practice providers. Our institution performs heart, liver, and kidney transplants, so opportunities to participate in the management of these patients. Additional patient populations that residents will be exposed to include heart failure, hemodialysis- and peritoneal dialysis-dependence, and cystic fibrosis.

Hematology/Oncology Bone Marrow Transplant

Our hematology/oncology services reside within the Pauline Allen Gill Center for Cancer and Blood Disorders and includes an inpatient unit, day hospital/infusion center, and outpatient clinic. During their hematology/oncology rotation, residents will round with the teaching service, primarily managing patients with solid tumors, hematologic malignancies, sickle cell disease, and thromboses. Our institution also performs bone marrow transplants, which is offered as an elective learning experience.

Infectious Diseases

During the infectious disease (ID) rotation, residents have the opportunity to participate in our antimicrobial stewardship program and round daily with either the general (immunocompetent) or immunocompromised ID services. Residents also can participate in weekly ID department case conferences during their rotation in addition to quarterly antimicrobial stewardship committee meetings throughout the year.

Pediatric and Trauma/ Neuro Intensive Care

Children's Medical Center Dallas (CMCD) features a 44-bed pediatric intensive care unit. Three rounding teams are responsible for the care of these patients, including a medical teaching service, advanced practice provider-driven service, and a trauma/neurosurgery service. During PICU/trauma ICU rotations, residents gain exposure to both continuous renal replacement therapies as well as extracorporeal membrane oxygenation (current active ECMO capacity = 5 circuits).

Neonatal Intensive Care

Our institution is home to a 47-bed Level IV neonatal intensive care unit and provides care to over 650 newborns each year. The NICU at Children's Medical Center is designed to care for premature and critically ill neonates, including those requiring medical and surgical management. During this rotation, residents will become familiar with neonatal pharmacy considerations and work with providers/dietitians to optimize total parenteral nutrition.

Cardiac Intensive Care

The cardiac intensive care unit (CICU) consists of a 20-bed unit in addition to a 12-bed step-down unit, making it the largest dedicated pediatric CICU in Texas. We treat all pediatric congenital and acquired heart conditions, with a variety of medical and surgical teams within our Heart Center. Some rotation-highlights that residents will experience include heart failure management (including ventricular assist devices), post-operative care, heart transplant, and a pharmacist-driven total parenteral nutrition service.

Emergency Medicine

Children's Medical Center Dallas is the only emergency department in North Texas with Level I Trauma designation with over 120,000 patient encounters each year. Notably, the pharmacy service within the CMCD Emergency Department is the recipient of a Pediatric Pharmacy Association "Best Practice Award" for its 24/7 pharmacy model. On any given day, you will find multiple clinical pharmacists performing medication reconciliations, preparing and administering medications in emergency situations, and serving as a resource for ED providers and staff. As part of the department's "culture book" program, ED pharmacists also collaborate with ED physicians to follow up on all positive cultures from the ED to ensure appropriate antimicrobial coverage.

Solid Organ Transplant

During this elective rotation, residents work closely with the transplant team to ensure the provision of appropriate pharmaceutical care of pediatric heart, liver, and kidney transplant patients. Rotation activities include pre-transplant evaluation and presentations, therapeutic drug monitoring of immunosuppression, monitoring for safety and efficacy of transplant related medications, creating rejection treatment plans, providing patient and caregiver medication education and providing drug information and education to the interdisciplinary team.

LONGITUDINAL

Medication Safety

This rotation is offered as an elective for those residents interested in investigating medication-related safety events and contributing to process-improvement within the pharmacy department. Residents will attend the daily institution-wide safety meeting and report pharmacy-related safety concerns on behalf of the department.

Practice Management

Throughout the PGY1 program, residents will engage in a variety of experiences that will expose them to pharmacy leadership and serve as an introduction to medication safety practices within the department. As part of the practice management longitudinal rotation, residents will also attend biweekly pharmacy leadership meetings and present relevant Food and Drug Administration labeling changes at monthly Pharmacy & Therapeutics Committee meetings.

Ambulatory Experiences

As a PGY1, residents will spend one afternoon per week in the Heart Center Clinic as part of the anticoagulation team, managing patients on warfarin and enoxaparin. Components of this experience include communication with patients and caregivers, collaboration with providers, coordination with outside laboratories and community pharmacies, and discharge education/counseling.

As a PGY2, residents will be embedded within the hemodialysis and peritoneal dialysis clinics on one afternoon per week. In the clinic, they will be responsible for performing medication reconciliations, providing adherence counseling, serving as a pharmacy resource for providers and staff, and ensuring the safe and appropriate use of medications through order verification.

Teaching Certificate

All residents have the opportunity to earn a teaching certification through Texas Texas University Health Sciences Center School of Pharmacy's Teaching and Learning Curriculum Program. Residents will work with pharmacy residents across all Texas Tech programs and complete assignments related to teaching and/or precepting to build a teaching portfolio.

Code Response

During the PGY2 program, residents will participate in a variety of medical emergency simulations to gain familiarity and confidence in their ability to respond to a code. In addition to practice scenarios, residents are also expected to attend active codes during relevant rotations alongside a preceptor and document these experiences in a code log-book. PGY1 residents also have the opportunity to attend simulations and codes on the units/floors.

Research Project

Each resident is required to complete an institutional review board (IRB)-approved research study during the course of the residency year. Research project ideas can be selected from a pre-approved list of topics or an original idea based on the resident's area(s) of interest. Platform presentations will take place at the annual Texas Society of Health-Systems Pharmacists Alcade Southwest Leadership Conference (PGY1) or the Pediatric Pharmacy Association's Annual Meeting (PGY2).