



Duke University Hospital



Post Graduate Year Two (PGY2)
Solid Organ Transplant Pharmacy Residency

About the Department

Duke University Hospital (DUH) is a 1,062 licensed bed academic medical center and serves as the flagship of Duke University Health System (DUHS), which includes two community hospitals, Duke Regional Hospital and Duke Raleigh Hospital, as well as affiliations with other hospitals in the region, community-based primary care practices, homecare and hospice, and infusion services.

A tertiary and quaternary care facility, DUH is consistently rated as one of the top hospitals in the United States. It offers comprehensive diagnostic and therapeutic facilities, including the Duke Medicine Pavilion, a Level 1 regional emergency/trauma center, an extensive complement of major surgery suites, a comprehensive cancer center recognized as one of the 40 National Cancer Institutes across the country, an Eye Center, the Duke Heart Center and the Children's Health Center. The facility also functions as a research hospital with a federally-funded general clinical research unit where medical advances are achieved and applied and a teaching hospital for students of medicine, nursing, and the allied health sciences

The DUH Department of Pharmacy is recognized for quality and diversity of services, professional leadership and educational excellence. The accessibility of pharmacy services is advanced by the innovative use of personnel and technology. Employees work as a team to create an exceptional work environment.

Our Mission To deliver exceptional pharmacy services for a healthier tomorrow

Our Vision To be a distinguished global leader in pharmacy care

To achieve this mission, the Department employs multiple pharmacy practice models in both the inpatient setting and outpatient clinics. Pharmacy services are provided by over 400 pharmacists, technicians and administrative staff using state-of-the-art technology systems to support their practices. The implementation of Epic Maestro Care facilitates coordinated patient management – with a goal of one patient, one record, one health system. Medication preparation and distribution is also technology-based, with centralized distribution processes, profiled automated dispensing cabinets and dedicated sterile products operations. Outpatient pharmacies serve the needs of the ambulatory patients in four areas: Duke Clinic, Duke Cancer Center, Children's Health Center and North Pavilion.

Clinical pharmacy services are well-recognized for all medical and surgical services and include general medicine, hematology/oncology, critical care medicine, infectious diseases, surgery, solid organ transplant, pediatrics, adult and pediatric bone marrow transplantation, anticoagulation, pain management, emergency medicine and nutrition support.



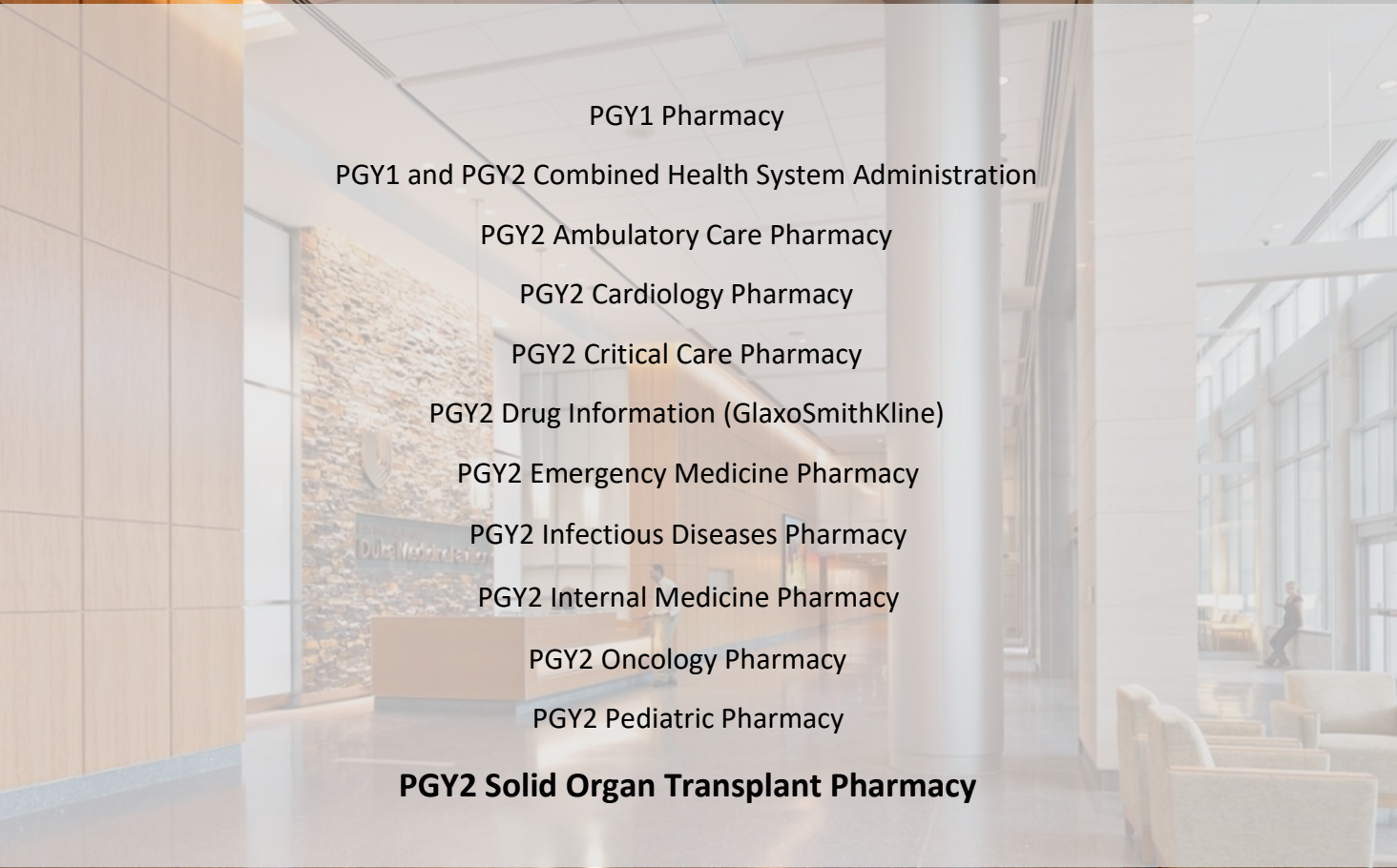
Postgraduate Training Programs

For over 45 years, our program has been training residents to become confident and competent practitioners equipped with the knowledge and skills to meet the challenges facing pharmacy practice both now and in the future. We

measure our success each year through the ability of our graduates to obtain the most competitive specialty residencies, fellowships, academic, and clinical positions available. Our commitment to continued excellence guarantees that our program will only strengthen in the future.

In addition to clinical activities, residents are involved in educational programs, including pharmacy conferences and journal clubs. Other teaching opportunities include co-precepting students from the University of North Carolina Eshelman School of Pharmacy and Campbell College of Pharmacy as well as medical and nursing in-services. Research skills are developed through completion of a research project and/or drug use evaluation. Residents attend the ASHP Midyear Clinical Meeting, the Southeastern Residency Conference, and have the opportunity to attend and participate in other state and local conferences.

DUH offers 12 distinct PGY1 and PGY2 pharmacy residency programs. The residency selection process is an important professional decision, an investment that will reap rewards for many years to come. We are pleased that you are interested in a Duke Residency and hope that you complete an application to our program.



PGY1 Pharmacy

PGY1 and PGY2 Combined Health System Administration

PGY2 Ambulatory Care Pharmacy

PGY2 Cardiology Pharmacy

PGY2 Critical Care Pharmacy

PGY2 Drug Information (GlaxoSmithKline)

PGY2 Emergency Medicine Pharmacy

PGY2 Infectious Diseases Pharmacy

PGY2 Internal Medicine Pharmacy

PGY2 Oncology Pharmacy

PGY2 Pediatric Pharmacy

PGY2 Solid Organ Transplant Pharmacy

PGY2 Solid Organ Transplant Pharmacy Residency

Introduction

Duke was one of the first institutions in the country to successfully establish a kidney transplant program in 1965. Since then, Duke's transplantation programs have achieved many more national and regional milestones, including the state's first successful liver, heart, hand, and abdominal wall transplants. Annually the Duke Transplant Center performs over 500 solid organ transplants including heart, intestine, kidney, liver, lung, pancreas, and vascularized composite tissue transplants in pediatric and adult recipients. Clinical pharmacy services are provided to all of the organ groups via a multidisciplinary approach.

The solid organ transplant residency is a specialized program consisting of 12 months of training in various transplant settings. The program is designed to include several core experiences necessary for establishing a foundation of solid organ transplant knowledge. Due to the diverse experiences at Duke, the residency year is tailored to adapt to the needs and interests of the individual resident.

Postgraduate Year Two (PGY2) pharmacy residency programs build on Doctor of Pharmacy (Pharm.D.) education and Postgraduate Year One (PGY1) pharmacy residency programs to contribute to the development of clinical pharmacists in specialized areas of practice. PGY2 residencies provide residents with opportunities to function independently as practitioners by conceptualizing and integrating accumulated experience and knowledge and incorporating both into the provision of patient care or other advanced practice settings. Residents who successfully complete an accredited PGY2 pharmacy residency are prepared for advanced patient care, academic, or other specialized positions, along with board certification (BCTXP).

The goal of the PGY2 Solid Organ Transplant Residency Program is to prepare the resident to excel in the care of solid organ transplant recipients and donors in any setting as a clinical pharmacy specialist, clinical faculty member, or to continue post graduate training (e.g., another residency or fellowship).

Excellence will be achieved by:

- Demonstrating accountability for patient care
- Modeling excellence in solid organ transplant pharmaceutical care
- Serving as professional role models for pharmacy students and PGY1 residents
- Participating in clinical research and performance improvement projects focused on solid organ transplant pharmacotherapy
- Facilitating and leading solid organ transplant pharmacotherapy discussions in Solid Organ Transplant Pharmacy Conference



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Outcomes

Goal R1.1: In collaboration with the health care team, provide comprehensive medication management to solid organ transplant patients following a consistent patient care process.

Goal R1.2: Ensure continuity of care during solid organ transplant patient transitions between care settings.

Goal R1.3: Manage and facilitate delivery of medications to support safe and effective drug therapy for solid organ transplant patients.

Goal R2.1: Demonstrate ability to manage formulary and medication-use processes for solid organ transplant patients, as applicable to the organization.

Goal R2.2: Demonstrate ability to conduct a quality improvement or research project.

Goal R3.1: Demonstrate leadership skills for successful self-development in the provision of care for solid organ transplant patients.

Goal R3.2: Demonstrate management skills in the provision of care for solid organ transplant patients.

Goal R4.1: Provide effective medication and practice-related education to solid organ transplant patients, caregivers, health care professionals, students, and the public (individuals and groups).

Goal R4.2: Effectively employ appropriate preceptor roles when engaged in teaching students, pharmacy technicians, or fellow health care professionals in solid organ transplant.

The Residency Experience

The PGY2-SOT at DUH is designed to provide diverse clinical experiences and prepare graduates to excel in the care of solid organ transplant recipients and donors. Residents will refine their skills in the solid organ transplant environment via well established clinical practice models with increased autonomy and responsibility for managing patient care practice. Rotations are offered in the inpatient, ambulatory care, and consultative settings. Required rotations include adult abdominal transplant, pediatric abdominal transplant, ventricular assist device service, heart transplant, lung transplant, transplant infectious disease consult, and longitudinal ambulatory experiences. Elective experiences include off-site rotation at UNC Hospitals, MICU, CTICU, PICU, SICU, and other experiences of interest to the resident. The resident will actively participate in interdisciplinary rounding, conferences, committees, journal clubs, in-services, listing conferences, QAPI meetings, and research. Teaching opportunities are available with local Colleges of Pharmacy.

Rotations

Required Learning Experiences	
Orientation <i>Includes orientation to inpatient staffing</i>	1 month (July)
Adult Kidney Transplant	4 weeks
Adult Liver Transplant	4 weeks
Abdominal Outpatient Clinic	3 weeks

Transplant VAD	2 weeks
Surgical Cardiac Transplant	4 weeks
Medical Cardiac Transplant	4 weeks
Surgical Lung Transplant	4 weeks
Medical Lung Transplant	4 weeks
Lung Outpatient Clinic	3 weeks
Transplant Infectious Disease Consult	1 month
Advanced Transplant	1 month (June)
Inpatient Staffing	Longitudinal
Research Project	Longitudinal (Dedicated time for data collection built into scheduled)
Transplant Conference	Longitudinal
Grand Rounds	Fall
Transplant Practice Management	Longitudinal
Elective Learning Experiences	
Options include, but are not limited to: Ambulatory Transplant – UNC Medical ICU Pediatric ICU Cardiothoracic ICU Surgical ICU	1 month
Additional Learning Experiences (not required)	
Pediatric Cardiac Transplant	Longitudinal

Education and Teaching

Each resident delivers formal presentations at Pharmacy Noon Conference. Residents actively contribute in case study presentations and clinical teaching. Pharmacy residents will have the opportunity to teach allied health professionals including medical, nursing, and physical therapy students, as well as provide didactic lectures to pharmacy students at various schools of pharmacy within the state. Residents also have the opportunity to precept PGY1 residents and pharmacy students on rotation.

Research

The ongoing development of research skills is an essential component of a residency program. The resident completes a formal residency project suitable for publication in a selected area of pharmacy practice. Duke provides statistician support for the research project. Resident research projects are presented at a regional or national conference.

Staffing Experience

Staffing will be incorporated into the residency experience in decentralized areas within the Clinical and Patient Care Service Division. PGY2s will be invited to staff every 3rd weekend. Activities include verifying medication orders, providing pharmacokinetic consults, responding to drug information questions, providing patient education and attending codes. During the second half of the year the resident will staff clinical transplant shifts on the weekend.

Benefits

Stipend: Estimated \$54,000-58,000

Paid Time Off (PTO): Resident accrue 35 PTO days during the 12-month program. Fifteen days of PTO may be used for scheduled personal leave. The remaining PTO is available for illness, attendance at professional meetings and interviews.

Health Benefits: Health coverage for you and your immediate family is available through optional Duke Health Care Plans. Please visit <http://www.hr.duke.edu> for more information.

Pagers: Each resident is provided with an alpha-numeric pager

On-Call Services: No formal in-house call is required; however, rotations are associated with after-hours service responsibility

Office Space: Offices are provided for the residents in the South Pharmacy area. Located within the office are a copier, fax machine, printers, phone with voicemail, and a refrigerator

Computer Services: The Department of Pharmacy is connected by a computer network allowing access to many different software and database programs. Residents are provided notebook computers.

Library Services: Residents have check-out and copier privileges at the Medical Center Library located on the Medical Center campus. The library also provides on-line access to numerous journals. <http://www.mclibrary.duke.edu>

Application Information

To apply for this residency, the following is required:

- Cover letter (approximately 1 page)

NMS Match Code: 627076

Completed PhORCAS Application

- Curriculum Vitae
- Pharmacy College transcripts
- Complete recommendations (a minimum of three recommendations are required, at least two of which should be from clinical preceptors)
- Resident Matching Program number from the National Matching Service

Your cover letter, residency application, curriculum vitae, and college transcripts must be received into PhORCAS no later than **January 5th**. Qualified applicants will be notified to arrange an interview during select days in January or February. This full-day interview provides an excellent opportunity for residency applicants to become acquainted with the facilities, personnel, and residency program.



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For questions please contact:

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Program Director



Jennifer Byrns, PharmD, BCPS, BCTXP, CPP, FAST is a clinical abdominal pharmacist practicing in the ambulatory setting at Duke University Hospital. She has been caring for transplant patients at Duke since 2013. She is actively involved in patient care, education, and research endeavors in the transplant field.

She earned a degree in Chemistry at the University of North Carolina and Doctor of Pharmacy from the University of North Carolina Eshelman School of Pharmacy. Jennifer completed her PGY1 Pharmacy Practice Residency at the Medical University of South Carolina in Charleston, SC and PGY2 Solid Organ Transplant Residency at Duke University Hospital.

Jennifer is a board-certified pharmacotherapy specialist (BCPS) and board-certified solid organ transplant pharmacy specialist (BCTXP). She also is a clinical pharmacist practitioner (CPP). Jennifer is involved in both state and national transplant and pharmacy organizations holding multiple executive positions. She provides didactic lectures at the University of North Carolina School of Pharmacy, Duke University School of Medicine, Highpoint University Fred Wilson School of Pharmacy, and Campbell University School of Pharmacy. Her interest areas are in immunology, pharmacokinetics/pharmacodynamics of transplant medications, and medication related outcomes.

Preceptors

This PGY2 Solid Organ Transplant residency is supported by a strong group of transplant and other specialty pharmacy preceptors who come from a variety of backgrounds and residency training, offering diverse clinical perspectives. These preceptors serve as pharmacy practice role models through board-certification and active involvement in resident research, process improvement projects, clinical service expansion / improvement initiatives, drug policy or other committees, etc.

The Duke University Department of Pharmacy is committed to supporting the professional goals of each preceptor. The department's support includes regular preceptor development seminars, live ACPE-accredited presentations, financial support for professional development and educational conferences, and more.

To learn more about our Duke Preceptors, please visit: <https://pharmacy.duke.edu/residency-programs/our-preceptors>

Thank you for your interest in Duke University Hospitals PGY2 Residency programs.

