

Pharmacy Residency Programs



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Postgraduate Training Programs

Cleveland Clinic is comprised of a 1,400-bed academic medical center and 17 additional hospitals, including 5 in Southeast Florida. In total, there are nearly 6,000 inpatient beds and over 1,500 pharmacy employees, 20 ambulatory pharmacies, significant inpatient and outpatient clinical services and a pharmacy budget exceeding \$1 billion.

At the Main Campus, we offer 16 distinct PGY-1 and PGY-2 pharmacy residency programs, and at our Regional Community Hospitals (Florida and Ohio), we offer 12 PGY-1 programs, two PGY-1/2 Health-System Pharmacy Administration programs, two PGY-2 Critical Care programs, two PGY-2 Emergency Medicine programs, one psychiatry program, and two PGY-2 Ambulatory Care programs.

Residency Overview

Our residency programs provide education and training with a primary emphasis on the development of practice skills in a number of specialized pharmacy practice areas. Throughout the year, residents are involved in a variety of service, education, and research activities.

During this training, residents learn to conduct patient care activities using a consistent approach that reflects the philosophy of pharmacy care across the continuum. In addition to clinical activities, residents are involved in educational programs, including pharmacy conferences, journal clubs and a seminar presentation. Other teaching opportunities include medical and nursing in-services, as well as co-precepting students from colleges of pharmacy. Research skills are developed through experience and enhanced by instruction as residents complete a research project and/or drug use evaluation. Residents attend the ASHP Midyear Clinical Meeting, a Residency Conference, and have the opportunity to attend and participate in other state and local conferences.

For more information about the residency programs at Cleveland Clinic, visit <https://my.clevelandclinic.org/departments/pharmacy/education/residency-programs>



Cleveland Clinic Main Campus

Cleveland Clinic has been named the No. 2 hospital in the United States by *U.S. News & World Report*. This is the 23rd consecutive year that Cleveland Clinic has been among the Top 5 hospitals. The 2021-2022 “Best Hospitals” rankings also named Cleveland Clinic the No. 1 heart hospital in the country for the 27th consecutive year. Statewide and regionally, Cleveland Clinic ranked No. 1 in Ohio and the Cleveland area.

Cleveland Clinic is nationally ranked in 13 specialties, including 8 in the Top 5 nationwide.

The rankings are:

- Cancer No. 5
- Cardiology & Heart Surgery No. 1
- Diabetes & Endocrinology No. 13
- Ear, Nose & Throat No. 22
- Gastroenterology & GI Surgery No. 3
- Geriatrics No. 2
- Gynecology No. 2
- Neurology & Neurosurgery No. 7
- Ophthalmology No. 10
- Orthopedics No. 7
- Pulmonology No. 5
- Rheumatology No. 2
- Urology No. 2

Cleveland Clinic Children’s also received national recognition from *U.S. News & World Report*.

MAIN CAMPUS RESIDENTS

PGY
1



PGY
1
&
2



PGY
2



Pharmacy Residency

The Pharmacy Residency (PGY-1) is a one-year program designed to provide a foundation of diverse experiences in pharmaceutical care as well as in health-system pharmacy practice.

The residency program builds on Doctor of Pharmacy (PharmD) education and outcomes to contribute to the development of clinical pharmacists responsible for medication-related care of patients with a wide range of conditions, eligible for board certification, and eligible for postgraduate year two (PGY-2) pharmacy residency training. The resident receives extensive training and experience in all areas of hospital pharmacy practice. The residency is designed to expand the skills and knowledge necessary for direct patient care. The program offers a variety of opportunities for the resident to develop critical thinking, communication, and leadership skills necessary to optimize patient care outcomes.

Required rotations include acute care, critical care, drug information, medication safety, and practice management. Residents are able to

individualize their residency through elective rotations such as ambulatory care, cardiology, emergency medicine, infectious diseases, informatics, internal medicine, oncology, pediatrics, and transplant. Additional activities include presentations at education conferences, completion of a research project, participation in hospital committees and pharmacy student education. Inpatient staffing is required every other weekend throughout the year.

Residents also participate in an on-call program.

CONTACT

Pharmacy Residency (PGY-1) Director

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Community Pharmacy

The Community-Based Pharmacy Residency (PGY-1) is a one-year program designed to provide diverse experiences in pharmaceutical care in the community practice setting.

This program builds upon the Doctor of Pharmacy (PharmD) education and outcomes to develop community-based pharmacist practitioners with diverse patient care, leadership, and education skills who are eligible to pursue advanced training opportunities including postgraduate year two (PGY2) residencies and professional certifications. The program offers advanced training in optimizing the care of diverse patient populations as they transition from a health system setting. Graduates of the program are prepared to provide advanced patient care services in the community pharmacy with independent, chain, and integrated health systems pharmacies. Completion of the teaching certificate program through Northeast Ohio Medical University (NEOMED) qualifies the residency graduate for positions in shared faculty/academia.

Learning experiences include ambulatory leadership, managed care/employee health plan, drug information, community pharmacy,

advanced community pharmacy, anticoagulation, specialty pharmacy, primary care, transitional care management, heart failure, and HIV ambulatory care clinic. Residents participate in a weekend staffing rotation and must work one major and one minor holiday. Required projects include: conduct a research/quality improvement project that results in a publishable manuscript, create a business plan for a new or enhanced service; and author a collaborative practice agreement, standing order, or state-based protocol.

Presentations are given at various meetings including resident conference and local, state, and national poster presentations.

CONTACT

Community-Based Pharmacy Residency (PGY-1) Director

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Health-System Pharmacy Administration and Leadership/MS

The Health-System Pharmacy Administration and Leadership Residency (PGY-1 and PGY-2) and master's degree is a specialized two-year program with the primary objective of developing pharmacy leaders who are trained and prepared to immediately assume managerial positions within large, integrated healthcare delivery systems, leading to Director of Pharmacy positions. Residents experience training, mentoring and modeling in pharmacy administration and leadership. Residents complete all aspects of a PGY1 residency during their first year and receive a certificate of completion at that time. Throughout their two years, residents will have exposure to central pharmacy, sterile products, emergency department, ambulatory, specialty pharmacy, and decentralized clinical services to gain experience with front-line supervision. HSPAL Residents also oversee the pharmacy internship program to gain further experience with direct supervision.

Residents will gain instruction on the provision of safe, appropriate, and cost-effective use of medication across the continuum of care through the application of knowledge and skills in patient care.

Required residency learning experiences ensure exposure to inpatient pharmacy operations and sterile products, acute care services, supply chain, finance, and med safety, and formulary management. The residents gain knowledge to understand, analyze and manage the changing nature of today's complex medical delivery systems and leadership skills necessary for change management and managing the pharmacy enterprise. Additional activities include presentations, projects, manuscript writing, staffing, and management on-call responsibilities.

CONTACT

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Pharmacotherapy Residency

The Pharmacotherapy Residency (PGY-1 and PGY-2) is a specialized two-year training program designed to develop expert-level competence in pharmacotherapy.

The program instructs the resident on the provision of safe, appropriate, economical use of medication through the application of specialized knowledge, skills and functions in patient care in preparation for becoming a board-certified pharmacotherapy specialist (BCPS). The program's goal is to develop an expert-level practitioner with the necessary knowledge, skills and abilities to thrive as a clinical generalist, specialist, coordinator or faculty member. Rotations are arranged in two-to three-month long clinical blocks that focus on a particular area of pharmacotherapy (e.g., critical care, internal medicine, pediatrics). In the second year, more specialized blocks of clinical rotations and a longitudinal ambulatory care component

are offered to build and enhance competencies acquired during the resident's first year.

Residents also have the opportunity to concentrate on a particular area of pharmacotherapy in the second year. Throughout year 1 and 2, additional requirements include presentations, projects, a manuscript, inpatient staffing, and on call.

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Ambulatory Care Residency

The Cleveland Clinic Ambulatory Care Residency (PGY-2) prepares graduates in three areas important for a clinical specialist: clinical practice, precepting, and research. Not only will residents develop the clinical skills to manage complex chronic disease states in a variety of outpatient settings, they will also develop operational skills to initiate and/or expand clinical pharmacy services. Resident graduates will be ready to precept a wide range of learners and be able to conduct research projects from conception to publication.

The PGY2 Ambulatory Care residents will practice within Cleveland Clinic Health-System, including hospital based clinics on the main campus, as well as several non-hospital based clinics within Cleveland Clinic family health centers. The pharmacist-driven ambulatory care clinics utilize consult agreements that allow pharmacists to initiate, discontinue, and modify medications for the disease states delegated by the physician. Required core rotations include: primary care, primary care 2, anticoagulation,

anticoagulation 2, pharmacy administration. Required specialty rotations include: diabetes, HIV, heart failure, geriatrics. Residents will select 2 elective rotations from the following list: transplant, rheumatology, diabetes 2, pharmacogenomics, managed care, specialty pharmacy, and pharmacy administration 2. In addition to completing a research project and drug use evaluation/quality improvement project, the resident will present at resident conference, ambulatory care monthly, leadership journal club, and the APPE student lecture series.

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Cardiology Residency

The Cardiology Residency (PGY-2) is a one-year training program designed to develop an expert-level practitioner with the necessary knowledge, skills and abilities for specialized practice in cardiology.

For the 27th consecutive year, Cleveland Clinic's heart program has ranked as the best in the nation, earning the No. 1 ranking in *U.S. News & World Report's* "2021-2022 Best Hospitals."

This program offers a variety of opportunities allowing the resident to develop clinical skills and aptitude necessary for acute care cardiology, cardiovascular ambulatory care, cardiovascular critical care, and to optimize patient care outcomes. Required experiences consist of a core series of cardiovascular rotations including clinical cardiology (acute care), coronary ICU, advanced heart failure/heart transplant, cardiothoracic surgery ICU (including CABG/Valve/Aortic Disease, heart/lung transplant and mechanical circulatory support), Imaging Service (valvular disease, endocarditis, pericarditis, and HOCM) and ambulatory heart failure/transplant clinic. The resident can choose from a number of elective rotations such as vascular

medicine and emergency medicine to build and enhance competencies.

In addition to completing a research or quality project, drug monograph, manuscript, and drug use evaluation, the resident will hone their skills through clinical staffing, presenting in pharmacy education conference and other settings, as well as participation in the resident on-call program and on pharmacy and hospital/health-system committees. The residency fosters development of an independent practitioner with the ability to thrive in a variety of cardiovascular practice settings.

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Critical Care Residency

The Critical Care Residency (PGY-2) is a one-year training program designed to develop an expert-level practitioner with the necessary knowledge, skills, and abilities to thrive as a critical care clinical specialist, clinical faculty member, or to pursue fellowship training in critical care. We are pleased to announce the Cleveland Clinic Main Campus PGY2 Critical Care Pharmacy Residency Program has been selected as the 2020 winner of the American Society of Health System Pharmacists (ASHP) Residency Excellence Award.

The program offers a variety of opportunities that allow the resident to develop the clinical skills necessary for complex intensive care issues and to optimize patient care outcomes. Required rotations include the medical, surgical, cardiac, cardiovascular surgery and neurosciences intensive care units. Elective opportunities in the heart failure, trauma/ burn, pediatric, and medical liver intensive care units, emergency department, infectious diseases consult service, and bone marrow and solid organ transplantation enable residents to integrate

their accumulated knowledge and skills to provide comprehensive pharmaceutical care for critically ill patients.

Additional opportunities include clinical teaching and outcomes research, and emergency response. The residency fosters development of an independent practitioner with the ability to thrive in a variety of practice settings. In addition to completing a research project and drug use evaluation, the resident will hone their skills through clinical staffing and presenting in both pharmacy education conference and critical care conference settings. Clinical and didactic teaching opportunities are available.

CONTACT

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Emergency Medicine Residency

The Emergency Medicine Residency (PGY-2) is a one-year training program designed to develop an expert-level practitioner with the necessary knowledge, skills, and abilities to excel as an emergency medicine clinical specialist.

The program offers a variety of opportunities that allow the resident to develop the clinical skills and aptitude necessary to manage complex emergency medicine issues and optimize patient outcomes. Required experiences consist of a core series of emergency medicine rotations including trauma and observation emergency medicine, adult critical care rotations in the medical and neurosciences intensive care units, a pediatric intensive care unit rotation, and a concentrated toxicology rotation. Several elective rotations are offered to further enrich pharmacotherapy knowledge and application, such as experiences in transplant medicine and infectious diseases as well as additional emergency medicine experiences.

In addition to completing a research project and drug use evaluation, the resident will further refine skills through clinical staffing, presentations at pharmacy education conferences and other venues, and participation in institutional and enterprise emergency medicine committees. Clinical teaching opportunities are also available with pharmacy students, residents, and physicians. The residency program fosters the development of an independent practitioner with the ability to thrive in a variety of emergency medicine practice settings.

CONTACT

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Infectious Diseases Residency

The Infectious Diseases Residency (PGY-2) is a one-year training program designed to provide an opportunity for the resident to develop the necessary skills for specialized practice in infectious diseases.

The program is designed to develop skilled clinical pharmacists to practice as infectious diseases specialists in academic or community hospitals, clinical faculty members or pursue fellowship training. Required rotations consist of infectious diseases (ID) general consult service, antimicrobial stewardship, endocarditis consult service, bone and joint infection consult service, neurologic ID consult service, ID outpatient clinic (including HIV), pediatric ID consults, immunocompromised ID consult service (solid organ transplant, bone marrow transplant, and oncology), and microbiology. The resident

can choose from a number of elective rotations to build and enhance competencies. The resident is involved longitudinally in antimicrobial stewardship and antimicrobial formulary management.

Additional experiences for the resident include a research project, drug use evaluation, and participation in pharmacy education conferences as well as the Department of Infectious Diseases case conference and grand rounds.

CONTACT

Infectious Diseases Residency (PGY-2) Director
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Investigational Drugs and Research Residency

The Investigational Drugs and Research Residency (PGY-2) is a one-year program designed to provide an opportunity for the resident to develop the necessary skills for specialized practice in investigational drug services and clinical research.

The PGY2 Investigational Drugs and Research pharmacy residency program offers the opportunity to develop clinical, analytical, teaching, and leadership skills required to support clinical trials research. The program encompasses the fields of clinical research, medication safety, leadership, regulatory compliance, and quality assurance and is designed to develop expert skills in pharmacists' provision of care for patients enrolled in clinical trials. Upon completion the resident will have expertise in clinical trial design and conduct, pharmacy operations and clinical services for the

research enterprise, and investigational drug service pharmacy leadership within an interprofessional environment.

Elective competency area(s) may also be selected for specific residents when creating their residency development plan. Experience in extended enterprise practice areas where research is prevalent, such as in Weston, FL, or Las Vegas, NV may be considered.

CONTACT

Investigational Drugs and Research Residency
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Medication-Use Safety and Policy Residency

The Medication-Use Safety and Policy Residency (PGY-2) is a one-year training program designed to provide an opportunity for the resident to develop necessary skills for specialized practice in medication-use systems and policies.

The program offers a variety of opportunities that allow the resident to develop skills in medication safety, drug information, formulary management, and drug-use policy development, while also incorporating aspects of administration and informatics.

Required rotations include medication safety, drug information practice, administration and drug-use policy, formulary management and implementation, regulatory and accreditation, and informatics. The resident will be involved with medication event reporting and monitoring, drug shortage and recall management, newsletter development and editing, and regulatory compliance. The resident

will attend and present at the Cleveland Clinic Health System Medical Staff P&T Committee and corresponding Formulary Specialty Panels as well as the Cleveland Clinic Local P&T Committee. The resident will participate in journal clubs and pharmacy education conference, conduct a drug use evaluation and a research project, write a manuscript, and present one seminar.

CONTACT

Medication-Use Safety and Policy Residency
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Oncology Residency

The Oncology Residency (PGY-2) is a one-year training program designed to provide an opportunity for the resident to develop the necessary skills for specialized practice in oncology pharmacy.

The resident's expertise, knowledge and skills in oncology therapeutics will allow them to contribute to an interdisciplinary healthcare team offering patient-specific therapeutic interventions to treat, cure, rehabilitate, and alleviate medical conditions

and diseases unique to cancer patients. The program also enhances proficiency in clinical research and strengthens communication skills.

Required rotations include solid tumor oncology, leukemia, blood and marrow transplantation, pediatric oncology, management/investigational drug services, outpatient oncology, inpatient lymphoma/myeloma, and advanced medicine/surgery. The resident can choose from a number of elective rotations to build and enhance competencies.

The resident participates in pharmacy education conference, weekly oncology disease state and therapeutics discussions, student lectures and discussions, conducts a research project, conducts a drug use evaluation, presents one seminar, participates in the formulary management process, and is involved in reviewing and validating oncology chemotherapy order sets.

CONTACT

Oncology Residency (PGY-2) Director

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Pediatric Residency

The Pediatric Residency (PGY-2) is a one-year training program designed to provide our resident with the experience needed to practice as a highly-skilled clinical pharmacist in the pediatric setting. Our residents train under the supervision of experienced clinical pharmacists in the care of infants, toddlers, children and adolescents. Our program is focused on direct patient care, practice management, and education of healthcare providers, patients and caregivers.

Cleveland Clinic Children's is a 120 bed hospital that consistently ranks as a national leader in pediatric clinical care by *U.S. News & World Report's* "Best Children's Hospitals". It is part of the Cleveland Clinic Health System and is a non-freestanding children's hospital that resides on the Cleveland Clinic Main Campus.

PGY-2 Pediatric Residents will be exposed to a broad range of experiences and activities intended to build the skills necessary to practice independently. Areas of focus include general pediatrics, pediatric intensive care, and neonatology, with additional

experiences available in pediatric infectious diseases, hematology/oncology and cardiology. The resident can choose from a number of elective rotations to build and enhance competencies. In addition, the resident will conduct a year-long research project and present the results at the PPA annual conference as well as prepare a manuscript for publication. Presentation skills will be enhanced by giving formal presentations throughout the year. Additional requirements are participation in hospital committees and inpatient staffing in the pediatric pharmacy satellite.

CONTACT

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Clinical Pharmacogenomics Residency

The Clinical Pharmacogenomics Residency (PGY-2) is a one-year program designed to provide an opportunity for the resident to develop necessary skills for specialized practice in clinical pharmacogenomics, implementation and expansion of pharmacogenomics services across a large hospital system, as well as clinical research.

The PGY2 Clinical Pharmacogenomics Resident will practice within the Cleveland Clinic Health System, including hospital based clinics on Main Campus. One example is the embedded pharmacogenomics clinic in the Center for Geriatric Medicine which is a pharmacist-driven service that utilizes consult agreements to allow pharmacists to initiate pharmacogenomics testing, provide interpretations, and pharmacogenomics-based recommendations. Required rotations include: clinical pharmacogenomics, clinical pharmacogenomics 2, 3, 4, ambulatory care, ambulatory care

specialty, drug information center. The resident can select up to 3 elective rotations from the following list: oncology, pediatrics, pharmacy informatics, psychiatry, and transplant. The resident will complete a clinical research project and drug use evaluation/quality improvement project as well as present at resident education conference. There will be opportunities to participate in precepting APPE and staff development.

CONTACT

Clinical Pharmacogenomics Residency
(PGY-2) Director

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Pharmacy Informatics Residency

The Pharmacy Informatics Residency (PGY-2) is a one-year training program designed to provide both experiential and didactic informatics experiences to prepare a pharmacist for a career in medical informatics.

The program offers a wide variety of projects involving implementation or optimization of features in an electronic health record and medication-use processes used by a multi-hospital health-system.

Additionally, with many different types of automation in place across the health-system, opportunities are available for experience with automated dispensing systems, automated carousels, pharmacy robotics, and pharmacy workflow and inventory management systems.

Required rotations will include Automation & Technology, Orders Management, Reporting & Analytics, Clinical Decision Support, Informatics Theory, Informatics Leadership, Student Precepting, and Informatics Advanced Practice. Elective opportunities are available in specialty-focused areas such as Oncology Informatics, Ambulatory Informatics, Antimicrobial Stewardship, and Order

Set Management. The resident will also lead a longitudinal research project which will involve implementing a new technology, or improving upon an existing technology, in the electronic health record or medication-use system. Additional requirements for graduation include weekend staffing (minimum of 14 weekends per residency year), participation in the Cleveland Clinic Residency on-call program, Pharmacy Informatics on-call support, and submission of the longitudinal research project for presentation at a national conference.

The Pharmacy Informatics Residency also provides the opportunity to earn a credential in the use of the medication management application in the electronic health record.

CONTACT

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Solid Organ Transplant Residency

The Solid Organ Transplant Residency (PGY-2) is a one-year training program that builds on Doctor of Pharmacy education and PGY-1 pharmacy residency training to contribute to the development of clinical pharmacists in solid organ transplantation.

The Solid Organ Transplant residency provides 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 Solid Organ Transplant pharmacy residency are prepared for advanced patient care, academic, or other specialized positions.

Required rotations consist of kidney, liver, heart, and lung transplant, transplant ambulatory care, and immunocompromised infectious diseases. The resident can choose from a number of elective rotations to build and enhance competencies. Additional experiences for the resident include a research project, drug use evaluation, and participation in pharmacy education conferences.

CONTACT

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Ohio Regional Hospitals



Cleveland Clinic Akron General

Cleveland Clinic Akron General is a 532-bed adult, tertiary care, Level I Trauma center that has been serving the healthcare and wellness needs of Akron and the surrounding communities for over 100 years. Additionally, Cleveland Clinic Akron General has regional referral centers in Cardiology, Cancer, and Orthopedics. As a major teaching hospital, Cleveland Clinic Akron General trains future physicians and pharmacists through 15 high-quality medical and pharmacy residency programs. Cleveland Clinic Akron General is ranked as the No. 1 hospital in the Akron metro area and the No. 7 hospital in Ohio, according to *U.S. News & World Report's* “2021-22 Best Hospitals.”

The Department of Pharmacy at Cleveland Clinic Akron General employs more than 160 caregivers (pharmacists, residents, pharmacy interns, technicians, and other support personnel) whose primary goal is to provide excellent patient care. The pharmacy provides services at Cleveland Clinic Akron General, the McDowell Cancer Center, the Visiting Nurse Services Hospice Care Center, Ambulatory Care Centers, Lodi Community Hospital, and three free standing emergency departments and infusion centers. Patient care areas at Cleveland Clinic Akron General are served by a central pharmacy. Distributive services are supported by a decentralized distribution system (BD Pyxis) and centralized robotics of Swisslog PillPick® and BoxPicker®. Centralized automation will be converted over to BD carousels by early 2022.

The pharmacy provides clinical services with clinical specialists in the areas of internal medicine, family practice, ambulatory care, pain management, surgical intensive care, medical intensive care, neurologic intensive care, cardiovascular intensive care, infectious diseases, emergency medicine, psychiatric medicine, hematology/oncology, and transitions of care. Clinical services are also provided through a medication concierge service, heart failure discharge medication reconciliation and education service, and diabetes needs assessments. Additionally, the pharmacy is very involved in teaching, serving as an Advanced and Introductory Pharmacy Practice Experience training site for several colleges of pharmacy.



Pharmacy Residency

The Pharmacy Residency (PGY-1) is a one-year postgraduate training program that provides training in a variety of areas of pharmacy practice. Emphasis is placed on the development of clinical skills through direct interaction with patients, physicians, nurses, and other healthcare providers. Graduates will be prepared for a successful career in multiple adult acute care settings, ambulatory care, or further training in a PGY-2 residency program. Pharmacists completing this residency will be competent and confident practitioners of direct patient care in multiple environments, equipped to meet the challenges of current and future pharmacy practice. Residents will be accountable for achieving optimal drug therapy outcomes as members of the health care team.

These pharmacists will exercise skill in educating other health care professionals, students, patients, and the community on drug-related topics. Residents will demonstrate a high level of professionalism by following a personal philosophy of independent practice, monitoring their own performance, and will contribute to the profession.

Residents will gain experience in a variety of core practice areas including: internal medicine, family medicine, critical care, infectious diseases, anticoagulation clinic, diabetes clinic, quality improvement/medication safety, pharmacy practice management, unit based pharmacy, and research. Elective experiential opportunities include: neurologic intensive care, cardio-vascular intensive care, surgical intensive care, medical intensive care, emergency medicine, opioid stewardship, ambulatory transitions of care, psychiatry, and hematology/oncology. Residents will gain experience teaching by serving as the primary preceptor for at least one pharmacy student and completing either the teaching certificate program offered by Northeast Ohio Medical University (NEOMED) or a leadership certificate offered through Cleveland Clinic. Residents will also provide continuing education programs for the pharmacy staff, lead at least one Morbidity and Mortality conference, and provide community service by delivering medication education sessions to cardiac rehabilitation patients.

Residents will work every other weekend throughout the year which includes rotating between staffing and the High-risk Patient – Clinical Generalist model.

Additionally, the resident will develop and complete an original research project. The project will be presented at a variety of local, regional, and national professional conferences, including ASHP Midyear Clinical Meeting and the Ohio Pharmacy Residency Conference, and a manuscript of publishable quality will be prepared.

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Health-System Pharmacy Administration and Leadership Residency/MS

Upon completion of the 24-month combined Pharmacy Residency Program in Health-System Pharmacy Administration and Leadership (HSPAL) with a Master of Science Degree at Cleveland Clinic Akron General the resident will possess clinical competence in administrative, financial, medication safety, and leadership skills related to health-system administration and leadership enabling them to manage complex health-system pharmacy departments. Residents completing the HSPAL residency at Cleveland Clinic Akron General will be trained to begin their careers in a wide variety of managerial positions.

During the first 12-months of the HSPAL residency, the resident will complete all the same requirements as the PGY1 Pharmacy residents allowing the resident to gain a solid clinical foundation and prepare them to site for board certification (BCPS) in their second year. Electives in their PGY1 year can be used to gain leadership experience. In the second 12-months of the HSPAL residency, the resident will become a member of the Pharmacy Management team gaining skills in pharmacy leadership, pharmacy enterprise

leadership, medication safety, clinical pharmacy operations, pharmacy operations, procurement and support services, and technology operations. The HSPAL resident will also have required rotations in the Cleveland Clinic Health System (CCHS) to gain diverse experience of leadership at all different levels in the Pharmacy Enterprise. The HSPAL resident will serve as the Chief Pharmacy Resident in the second year of the residency to a 10 pharmacy residents. Additionally, the HSPAL resident will complete the leadership certificate program through the CCHS pharmacy enterprise during their first year and the NEOMED teaching certificate in their second year.

CONTACT

Health-System Pharmacy Administration and Leadership Residency Director

Michael R. Hoying, RPh, MS

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Department of Pharmacy

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Critical Care Residency

The Critical Care Residency (PGY2) at Cleveland Clinic Akron General is a one-year training program designed to provide training in a variety of critical care settings.

The primary practice areas for the residents include Cardiovascular Intensive Care, Medical Intensive Care, Neuroscience Intensive Care, Trauma/Surgical Intensive Care, Emergency Medicine, and Infectious Diseases. There are also opportunities for elective rotations in Nephrology and Nutrition. Additionally, residents will have the opportunity to precept both pharmacy students and PGY1 pharmacy residents. A teaching certificate program is offered through Northeast Ohio Medical University if the resident had not acquired one from their PGY1 residency. Cleveland Clinic also offers a leadership certificate for residents who wish to pursue this option. The residents will work every other weekend throughout the year rounding with the Medical Intensive Care service. The residents

will also complete a medication use evaluation and an original research project. The residents will have the opportunity to present their research at a variety of local, regional, and national professional conferences.

CONTACT

Critical Care (PGY-2) Director

Michaelia Cucci, PharmD, BCPS, BCCCP

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Emergency Medicine Residency

The Emergency Medicine Residency (PGY2) at Cleveland Clinic Akron General is a 12-month training program designed to train future emergency medicine pharmacy practitioners to provide competent and compassionate care to the spectrum of patients presenting to the emergency department. The PGY2 resident will engage with the interdisciplinary team in direct patient care with the goal of providing optimal, patient-centered medication therapy. Core experiences will expose the PGY2 resident to patients with trauma (Level 1 trauma center), medical emergencies, cardiac emergencies, and neurologic emergencies/stroke alerts (Thrombectomy-capable stroke center). The PGY2 resident will have core and elective opportunities that expand their knowledge of infectious diseases/antimicrobial stewardship, behavioral health, clinical toxicology, and ED transitions of care. Opportunities to precept pharmacy students and residents, as well as non-

pharmacy learners, are incorporated into the year. Extensive opportunities for interdisciplinary learning exist, including didactic time with the physician residents. The PGY2 resident will complete several projects, including a multidisciplinary research project with the opportunity to present research results at a variety of local, regional, or national professional conferences.

CONTACT

Emergency Medicine (PGY-2) Director
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Avon Hospital

Avon Hospital opened in November 2016, adjacent to the Richard E. Jacobs Health Center in the western-Cleveland suburb of Avon, Ohio. This 126-bed community hospital is the first Cleveland Clinic regional hospital designed and built to accommodate future advances in medical care. Avon Hospital provides a variety of services to the community including emergency medicine, general and orthopedic surgery, and acute care. In 2019, Avon Hospital was awarded Advanced Certification for Primary Stroke by The Joint Commission and 2019 Healthgrades Outstanding Patient Experience Award. Avon Hospital also achieved Level 2 Geriatric Emergency Department Accreditation by The American College of Emergency Physicians in 2021.

The Department of Pharmacy consists of approximately 25 dedicated staff members, and provides 24-hour pharmaceutical services from the inpatient pharmacy with decentralized pharmacist coverage in the emergency department, intensive care unit, and general medical and surgical floors. A unique healthcare delivery model allows for around-the-clock bedside coverage utilizing hospitalist physicians and NP/PA providers.

Pharmacists are integral members of the interdisciplinary care team and focus on drug therapy optimization, medication reconciliation, and patient education. Pharmaceutical services continue after hospital discharge at the Richard E. Jacobs Health Center where patients can fill prescriptions through prescription bedside delivery service or at the outpatient pharmacy, follow-up for anticoagulant therapy monitoring at a pharmacist-staffed clinic, and receive parenteral medications through the outpatient infusion center.



PGY
1

Pharmacy Residency

The Avon Hospital Pharmacy Residency (PGY-1) is a one-year postgraduate training program based in a state-of-the-art community hospital practice setting.

The residency will build upon the knowledge and skills gained from a Doctor of Pharmacy education, focusing on the development of a pharmacist practitioner capable of managing medication-related care for patients with a variety of acute and chronic disease states. Core experiences include central and decentralized pharmacy practice, internal medicine, critical care, infectious diseases, and emergency medicine, as well as every other weekend staffing and clinical responsibilities.

The resident will develop leadership skills through a practice management experience and hospital committee involvement. The resident will have the opportunity to complete elective experiences based on their needs and interests. The resident will be involved in

educational activities, including presentations to pharmacy staff, provider and nursing in-services, co-precepting pharmacy students, and completion of a teaching certificate through Northeast Ohio Medical University. Research experience will be gained through completion of a major research project, and the resident will have the opportunity to present their research on a regional and national level.



CONTACT

Pharmacy Residency (PGY-1) Director
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Euclid Hospital

Euclid Hospital is home to one of the region’s leading orthopedic surgery centers. The hospital is licensed for 168 beds and has an average daily census of 130 patients. Euclid serves the local community providing emergency services, general and orthopedic surgeries, acute and sub-acute care, as well as a variety of outpatient services. The Department of Pharmacy supports 24-hour pharmaceutical services and also offers bedside delivery of patient discharge medications.

Decentralized pharmacists provide pharmaceutical services in the emergency department, intensive care unit, as well as medical and surgical floors. Clinical duties focus on medication reconciliation, patient counseling and drug optimization; pharmacists also collaborate with prescribers in shared medical appointments for patients with COPD, CHF, and CKD.



PGY
1

Pharmacy Residency

The Euclid Hospital Pharmacy Residency (PGY-1) is a one-year postgraduate training program based in a community hospital practice setting. The resident will gain experience in the development of patient-specific medication treatment and monitoring plans, provide education to patients and other healthcare professionals, and serve as a drug utilization resource while training to become a competent clinical practitioner. The residency offers required learning experiences in internal medicine, infectious disease, critical care, decentralized unit-based pharmacy, emergency medicine, and pharmacy practice management. Available electives include ambulatory care, psychiatric pharmacy, pharmacy operations, and other electives based on the resident’s needs and interests. Additionally, the Euclid Hospital residency program also includes teaching/precepting opportunities for pharmacy students and optional

didactic teaching in coordination with NEOMED’s teaching certificate. The resident will also be responsible for completing a longitudinal research project and drug use evaluation and will present at local and national conferences virtually or in person.



CONTACT

Pharmacy Residency (PGY-1) Director
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Fairview Hospital

Fairview Hospital is a 488-bed community teaching hospital. Fairview Hospital supports medical residencies in internal medicine, surgery and family practice and is recognized as a Magnet® Hospital by the American Nurses Credentialing Center. Fairview Hospital has a number of clinical Centers of Excellence, including Birthing Services, Cancer Center, Emergency and Level II Trauma, Heart Center and Surgery. Fairview was nationally ranked in Cardiology & Heart Surgery, Neurology & Neurosurgery, Orthopedics and Urology by *U.S News & World Report* in 2020-21.

The Department of Pharmacy consists of 102 dedicated total staff and provides pharmacy services 24 hours a day. The department uses various technologies to support safe and efficient medication compounding and delivery. Pharmacists provide care through a decentralized model on medical-surgical floors, intensive care unit, emergency department and outpatient oncology. Rounding services include internal medicine, infectious disease and critical care. In addition to PGY1 residents, Fairview pharmacists precept IPPE and APPE students from local pharmacy schools and support a PGY2 in Emergency Medicine.



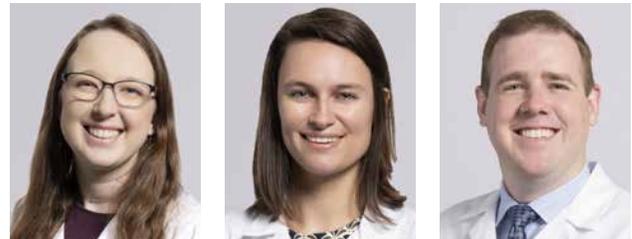
PGY
1

Pharmacy Residency

The Fairview Hospital Pharmacy Residency (PGY-1) is a one-year postgraduate training program that provides a foundation of diverse experiences in pharmaceutical care and hospital pharmacy practice. The program is designed to expose the resident to a variety of practice areas in acute care and ambulatory environments to build and expand the knowledge and skills necessary for direct patient care. Residents who successfully complete this program are well prepared for specialized residencies, fellowships, and opportunities in clinical hospital practice.

Throughout the year, residents are involved in a variety of service, education and research activities. They also provide longitudinal support for key pharmacy practice initiatives such as formulary management, patient education and medication reconciliation. Required experiences include adult internal medicine, critical care, cardiology, infectious disease, unit-based pharmacy practice, emergency medicine and pharmacy leadership.

Required longitudinal rotations are ambulatory family medicine clinic, research project and staffing. Electives include oncology, pediatric/adolescent psychiatry, trauma, investigational drug services, inpatient family medicine, nephrology and critical care (surgery). There are also opportunities to complete teaching and leadership certificates. In addition to clinical activities, residents are involved in educational programs, which include pharmacy case conferences and continuing



education seminar presentations to internal medicine residents. Other teaching opportunities include medical and nursing in-services and precepting students from local colleges of pharmacy. Research skills are developed throughout the year as residents complete a research project and drug use evaluation. Residents attend the ASHP Midyear Clinical Meeting and Ohio Pharmacy Residency Conference and have the opportunity to attend and participate in other state and local conferences.

CONTACT

Pharmacy Residency (PGY-1) Director
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Emergency Medicine Residency

The Emergency Medicine Residency (PGY-2) is a 1-year specialized residency which provides the resident a foundation to establish comprehensive pharmaceutical care to adult and pediatric Emergency Department patients and work with medical personnel through integrated drug distribution, drug information, clinical services, research and teaching. Required rotations include concentrated blocks in the Emergency Department with an emphasis on resuscitation, toxicology, antimicrobial stewardship, teaching, and leadership along with trauma and medical intensive care. Elective rotations may include, but are not limited to, infectious disease, surgical intensive care, and cardiac critical care. The resident will represent the pharmacy department within the Emergency Services Institute Pharmacy Governance Committee. Additional

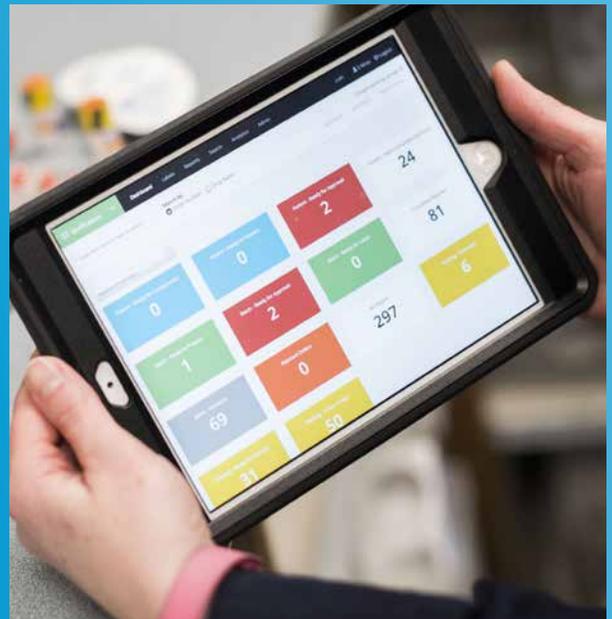
responsibilities include a research project, medication use evaluation, journal clubs and case presentations.



CONTACT

Emergency Medicine Residency (PGY-2) Director
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Hillcrest Hospital

Hillcrest Hospital is a 500-bed community acute care hospital rated as the No. 4 hospital in Ohio and the No. 3 hospital in the Cleveland Metropolitan Area by *U.S. News & World Report* in 2021. Hillcrest is an accredited Stroke Center (Gold Plus Target Stroke Honor Roll for 2020 Get With The Guidelines), Chest Pain Center with PCI, and is a Top 100 hospital for cardiac care. Hillcrest earned Magnet Status and the Quality Achievement Award from the American Heart Association.



PGY
1

Pharmacy Residency

Pharmacy Residency The Pharmacy Residency (PGY-1) is a one-year postgraduate training program that develops general pharmaceutical patient care expertise. Residents who successfully complete this program are well prepared for specialized residencies, fellowships, hospital practice in an integrated patient care area clinical role or other career opportunities. The residency offers exposure to intensive care (medical, surgical, cardiovascular, and cardiothoracic), high risk obstetrics, neonatology, oncology, emergency medicine, internal medicine, ambulatory internal medicine, longitudinal ambulatory care (anticoagulation and heart failure clinic), infectious disease, administration, and pharmacy practice. Additional opportunities are available through hospital committees, continuous improvement projects and elective rotations. Residents fine tune their communication skills through multiple journal clubs and formal presentations. Residents develop critical thinking skills through case conferences in addition to daily rounding on patient care teams. Residents develop leadership skills through two individual leadership courses and monthly leadership seminars. Residents develop teaching and preceptor skills through PharmD student interactions.



Please visit our resident website at www.hillcresthospital.org/PGY1pharmacyresidents for further information.

CONTACT

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Ambulatory Care Residency

The Ambulatory Care Residency (PGY-2) at Hillcrest Hospital is a specialized one-year residency experience designed to develop and train an expert level ambulatory care pharmacy practitioner. The resident will train in various settings to foster clinical skills to be able to manage complex chronic disease states. The resident will also conduct a research project from conception to publication and participate in precepting opportunities. Together, these opportunities will allow the resident to cultivate their interpersonal skills, critical thinking, and pharmacotherapy expertise to become a well-rounded and highly desirable ambulatory care pharmacy professional.

The PGY-2 Ambulatory Care resident will utilize consult agreements to initiate, discontinue, and modify medications for disease states delegated by the physician or nurse practitioner. The required rotations include: Internal/Family Medicine Outpatient Clinic, Primary Care Pharmacy Clinic, Outpatient Anticoagulation Clinic, Transitions of Care Inpatient, Internal Medicine Inpatient, Chronic Heart Failure Clinic, Practice Management, Emergency Department/Infectious

Disease Clinic, and Hematology/Oncology Outpatient. In addition to the completion of a research project, the resident will complete at least one formal continuing education presentation, present at a resident conference, and complete a medication use evaluation/quality improvement project. Numerous educational and preceptor prospects are available, including precepting PGY-1 pharmacy residents, and APPE students.

CONTACT

Ambulatory Care Residency (PGY-2) Director

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Critical Care Residency

The Critical Care Residency (PGY-2) at Hillcrest Hospital is a specialized one-year residency experience designed to develop and train an expert level critical care pharmacy practitioner. The program provides multiple training settings in order to hone and advance the resident's knowledge, skills, and abilities in the area of critical care medicine, and subsequently succeed as a critical care clinical specialist. Residents refine their critical thinking skills, pharmacotherapy expertise, and critical care medicine acumen while enhancing their communication and interpersonal skills, allowing them to become well-rounded and highly desirable critical care pharmacy professionals.

The program offers required learning opportunities in medical, surgical, neonatal, cardiothoracic, and coronary care intensive care unit settings, as well as an infectious disease service, and the emergency department. Elective rotation opportunities are available in trauma and the pediatric emergency department. The resident will complete a medication use evaluation and an original research project, with an associated manuscript written for publication. These projects will be presented at various state and national level pharmacy and critical care professional meetings. Numerous

educational and preceptor prospects are also available, including didactic teaching of midlevel providers, nursing and pharmacy staff; and precepting of PGY-1 pharmacy residents, and pharmacy students at both the IPPE and APPE level. Clinical and distributive staffing requirements sharpen the resident's abilities as a pharmacist while developing leadership and communication skills. Participation in the Cleveland Clinic Corners of Leadership Pharmacy Residency Certificate Program is also encouraged.



CONTACT

Critical Care Residency (PGY-2) Director

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Lutheran Hospital

Lutheran Hospital is a 203-bed acute-care hospital that specializes in orthopedics and spine, chronic wound care, and behavioral health. Lutheran Hospital encompasses the primary adult inpatient psychiatric units of the Cleveland Clinic Department of Psychiatry which consists of two severe mental illness units, one mood disorder unit, one general adult psychiatry unit, one geriatric psychiatry unit, and one alcohol and drug recovery unit. The hospital supports medical residencies in adult psychiatry and orthopedic surgery. Lutheran Hospital has been recognized among community hospitals by receiving the Vizient Bernard A. Birnbaum, MD, Quality Leadership Award and by the Joint Commission as a Top Performer on Key Quality Measures. The Department of Pharmacy supports 24-hour pharmaceutical services. Decentralized pharmacists provide services in the emergency department, medical floors, and behavioral health units. An electronic medical record/CPOE supports pharmacy services. The department utilizes decentralized automation cabinets as its main distribution system.



PGY
2

Psychiatry Residency

The Psychiatry Residency (PGY-2) at Lutheran Hospital is a specialized one-year residency experience designed to develop and train an expert level psychiatry pharmacy practitioner. The program provides training settings and opportunities to advance the resident's knowledge, skills, and abilities in the area of psychiatric pharmacy. Required experiences include severe mental illness, mood disorders, chemical dependency, and outpatient psychiatry. Elective experiences include child/ adolescent psychiatry, geriatric psychiatry, consultant liaison, forensics, and emergency psychiatry. All clinical experiences are in the adult inpatient setting unless otherwise noted.

Residents have many opportunities for teaching including didactic lectures for medical residents in adult psychiatry, weekly patient education groups, staff in-services, and student and PGY1 resident precepting. Residents will complete a research project and associated manuscript written for publication. This project will be presented at various state and national professional meetings including the CPNP Annual Meeting. The resident will participate in interdisciplinary

committees related to psychiatry. Residents will enhance their operational knowledge during monthly weekend staffing. In addition, optional longitudinal teaching certificate and leadership training programs are offered. Residents upon completion of the program will be prepared to work in a variety of practice settings and to pursue board certification in psychiatric pharmacy (BCPP).

CONTACT

Psychiatry Residency (PGY-2) Director
Audrey Kivlehan, PharmD, BCPS, BCPP

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Marymount Hospital

Cleveland Clinic Marymount Hospital is a 269-bed acute care hospital located in Garfield Heights, Ohio. The hospital has served the needs of the local community since 1949 and was the first community hospital to join the Cleveland Clinic Health System. Specialties include internal medicine, cardiology, pulmonology, psychiatry, pain management, critical care, emergency medicine, orthopedics, and surgical services. Marymount received a Healthgrades Patient Safety Excellence award in 2019, and has been recognized for stroke care through Joint Commission Certification as a Primary Stroke Center and an American Heart Association/American Stroke Association Get With the Guidelines® Stroke Gold Plus Achievement award in 2020. In 2021 Marymount was endorsed by the American Nursing Credential Center as a Magnet designated hospital and granted Geriatric Emergency Department Accreditation by the American College of Emergency Physicians.

The Department of Pharmacy consists of approximately 40 members and is made up of administration, clinical pharmacy specialists, clinical pharmacists, interns, and technicians. The department is decentralized and is supported by an electronic medical record. Various types of pharmacy technology are utilized by the department and include automated dispensing cabinets, a virtual carousel, electronic inventory management, and an electronic intravenous compounding workflow management system. Pharmacy services include 24-hour code blue and stroke alert response, vancomycin and warfarin dosing management, medication review following patient falls, medication reconciliation, patient education and counseling, Emergency Department culture callback, antimicrobial stewardship, and a bedside discharge medication delivery service.



Pharmacy Residency

Cleveland Clinic Marymount Hospital offers a Pharmacy Residency (PGY-1) program that builds upon the Doctor of Pharmacy education in order to develop knowledgeable and skilled practitioners who are able to participate in an interdisciplinary healthcare team and provide a wide range of clinical pharmacy services. Graduates of the program will be able to pursue careers in a clinical setting and are eligible for board certification and specialty residency training or fellowship.

The residency advisory committee tailors the residency to meet the specific needs and interests of the resident. Core areas of training include internal medicine, critical care, emergency medicine, behavioral health, infectious diseases, ambulatory care, and administration.

Residents will gain teaching experience by co-precepting pharmacy students and through completion of a teaching certificate program offered through NEOMED College of Pharmacy. Residents will have



longitudinal involvement in the Pharmacy and Therapeutics committee and will complete original research projects that will be presented at local, state, or national meetings.

CONTACT

Pharmacy Residency (PGY-1) Director

Trevor Stump, PharmD, BCPP

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Medina Hospital

Medina Hospital is a 148-bed acute-care facility serving the health care needs of a growing rural Medina County since 1944. In August 2009, the hospital became affiliated with the Cleveland Clinic, becoming the ninth regional hospital in the health system. Medina Hospital offers a complete continuum of care, from preadmission testing and surgery, to urgent care and emergency services. Orthopedic surgeons offer a full spectrum of procedures, specializing in total joint replacements and arthroscopy. Medina Hospital is accredited by the Joint Commission as a Certified Stroke Center.

The Department of Pharmacy at Medina Hospital provides 24-hour service with a professional staff of approximately 30 members responsible for the medication use processes.

The department is supported by CPOE and an electronic medical record. Automated dispensing cabinets throughout the hospital serve as the primary source of medication distribution.

Pharmacists are actively involved within the Emergency Department, the intensive care unit, antimicrobial stewardship, and decentralized on the general medical floors. Pharmacists also serve as pharmacy student preceptors, provide discharge counseling, and review daily clinical reports.



PGY
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Pharmacy Residency

The Medina Hospital Pharmacy Residency (PGY-1) is a one-year postgraduate program that takes place in the unique setting of a progressive community hospital. Graduates will help implement and enhance pharmacy services, while developing the skills necessary to become integral parts of the interdisciplinary healthcare team. In addition to clinical activities, residents are involved in education and service activities. Residents complete a major research project and drug use evaluation over the course of the year. Teaching opportunities include teaching medical and nursing in-services, as well as co-precepting students from colleges of pharmacy.

Additionally, a teaching certificate may be available through local colleges of pharmacy. Residents will present their research at a regional pharmacy residency conference, Midyear Clinical Meeting, and the Ohio College of Clinical Pharmacy.



CONTACT

Pharmacy Residency (PGY-1) Director

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Mercy Hospital

Cleveland Clinic Mercy Hospital, a ministry of the Sisters of Charity Health System, operates a 476-bed hospital serving Stark, Carroll, Wayne, Holmes and Tuscarawas Counties and parts of Southeastern Ohio. As a Catholic health care organization, the mission at Cleveland Clinic Mercy Hospital is to continue Christ's healing ministry by providing quality, compassionate, accessible and affordable care for the whole person. Cleveland Clinic Mercy Hospital offers the area's most experienced robotic surgery center; nationally recognized heart and cancer centers; family-focused intensive care unit, and more. The hospital is a model of community health care demonstrating service excellence and providing wellness, education, and outreach to the community.

The inpatient pharmacy department is a 24-hour operation responsible for dispensing medications daily for an average census of 250 patients. The outpatient pharmacy also offers bedside delivery of patient discharge medications.



Pharmacy Residency

The Pharmacy Residency (PGY-1) is a one-year postgraduate training program that provides an in-depth, professional, patient-centered pharmacy training experience where residents can develop their professional expertise as a clinical practitioner, as well as the skills required to deliver safe and effective pharmaceutical care. After completion of the program, the resident will be qualified for advanced training in a PGY2 residency or secure gainful employment in multiple settings.

Residents will gain experience in a variety of core pharmacy practice areas including: administration, internal medicine, critical care, emergency medicine, infectious disease/stewardship, ambulatory care, medication safety, transitions of care, and research. Residents will also gain experience teaching by assisting with clinical training of pharmacy students throughout the year, along with serving as the primary preceptor for at least one pharmacy student. Residents are also highly encouraged to complete the teaching certificate program offered by Northeast Ohio Medical University (NEOMED) and/or a leadership certificate offered through Cleveland Clinic.

Residents will be involved in direct patient care and clinical rounding services as applicable to the rotation. In addition, residents will be exposed to the management of a pharmacy department and gain



insight into the responsibility of accepting leadership and making a contribution back to the profession of pharmacy. Professional activities include attendance at local pharmacy organization meetings, ASHP Midyear Clinical Meeting, and regional pharmacy resident conferences.

CONTACT

Pharmacy Residency (PGY-1) Director
**Sunita R. Patel, PharmD, BCPS, BCACP,
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South Pointe Hospital

Cleveland Clinic South Pointe Hospital is a 173-bed acute care community teaching hospital located in Warrensville Heights, an eastern suburb of Cleveland, Ohio. A unique aspect of South Pointe Hospital is that it serves as an extension campus for Ohio University’s Heritage College of Osteopathic Medicine. This affiliation allows collaboration between pharmacy and medical residents and students in a community setting.

South Pointe Hospital is accredited by the Joint Commission and is a Certified Stroke Center. The *U.S. News & World Report* recognized South Pointe Hospital in achieving the highest rankings in Geriatrics, Nephrology, Pulmonology, Heart Failure and Chronic Obstructive Pulmonary Disease.

The Department of Pharmacy provides pharmacy services 24 hours a day. Decentralized pharmacy services are established on the medical-surgical floors, intensive care unit, emergency department, and outpatient oncology care area. Clinical rounding services include critical care, infectious disease, and internal medicine.

Pharmacy services are integrated throughout the hospital to optimize patient care through clinical chart review, medication counseling, consult services, antimicrobial stewardship, committee involvement and bedside delivery services. Pharmacists serve as student preceptors and participate in didactic teaching opportunities with the South Pointe medical residency programs.



PGY
1

Pharmacy Residency

The South Pointe Hospital Pharmacy Residency (PGY-1) is a one-year postgraduate training program which will emphasize the development of general pharmaceutical patient care and practice skills necessary to become an integral part of the interdisciplinary healthcare team. Residents will be exposed to all pharmacy services available at South Pointe Hospital and will have the opportunity for off-site elective experiences at other Cleveland Clinic hospitals.

The resident will complete a research project and a drug use evaluation over the course of the year. Professional activities include attendance at local pharmacy organization meetings and presentations at regional and national conferences in accordance with Cleveland Clinic travel restrictions. Residents will also receive a teaching certificate through Northeast Ohio Medical University.



CONTACT

Pharmacy Residency (PGY-1) Director

Lindsey Hoffman, PharmD, BCCCP

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Florida Regional Hospitals



Cleveland Clinic Indian River Hospital

Founded by Garnett Radin, R.N., in 1932, Cleveland Clinic Indian River Hospital is a 332-bed, not for profit hospital offering comprehensive medical services to the Treasure Coast community. The Welsh Heart Center, Scully-Welsh Cancer Center and Scully Endoscopy Center offer full-service programs and a multidisciplinary approach. Healthcare professionals represent specialties including orthopedic services, minimally invasive vascular surgery, neurosurgery, stroke services, robotic surgery, a state-of-the-art wound healing center, bariatric surgery and the only maternity wing in the community. The hospital features all private rooms and is the largest private-sector employer in Indian River County.

The Department of Pharmacy provides 24-hour service with a professional staff of approximately 27 pharmacists with 9 being board certified in their area of practice.

Pharmacists are actively involved within ambulatory care, emergency services, the intensive care unit, antimicrobial stewardship, and decentralized on the general medical floors. Pharmacists also serve as pharmacy student preceptors and provide discharge counseling.

For more information about Cleveland Clinic Indian River Hospital Residency program, visit <https://www.indianrivermedicalcenter.com/about/careers/pharmacy-residency-program/>.



PGY
1

Pharmacy Residency

PGY1 Program Purpose: PGY1 pharmacy residency programs build on Doctor of Pharmacy (Pharm.D.) education and outcomes to contribute to the development of clinical pharmacists responsible for medication-related care of patients with a wide range of conditions, eligible for board certification, and eligible for postgraduate year two (PGY2) pharmacy residency training. The residency advisory committee tailors the program to meet the needs and interests of each resident. Required learning experiences include: orientation, internal medicine, cardiology, critical care, infectious disease, emergency medicine, ambulatory care, and advanced ambulatory care. Residents will spend time in longitudinal experiences throughout the program year, including: research, education, leadership, operational pharmacy practice, and advanced operational pharmacy practice. Elective experiences offered include psychiatry-pharmacy, primary care medication management, nutrition support, sterile preparations, oncology and administration. Residents present research at ASHP Midyear Clinical Meeting and the Florida Residency Conference. In addition, residents will have the opportunity to gain teaching experience through optional participation in a teaching certificate program, serve as preceptors for APPE students, and provide drug information and in-services to clinical staff throughout the hospital. Residents will



have longitudinal involvement in the Pharmacy and Therapeutic Committee. They will complete a variety of projects and presentations including a CE program and MUE.

CONTACT

Pharmacy Residency (PGY-1) Director
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Ambulatory Care Residency

PGY2 pharmacy residency programs build on Doctor of Pharmacy (Pharm.D.) education and 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, if available.

The Cleveland Clinic Indian River Hospital Ambulatory Care Residency (PGY-2) prepares graduates in three areas important for a clinical specialist: clinical practice, precepting, and research. Not only will residents develop the clinical skills to manage complex chronic disease states in a variety of outpatient settings, they will also develop operational skills to initiate and/or expand clinical pharmacy services. Resident graduates will be ready to precept a wide range of learners and be able to conduct research projects from conception to publication.

The PGY2 Ambulatory Care resident will practice at the Cleveland Clinic Indian River Hospital; including hospital based clinics on

the main campus, as well as satellite clinics. The pharmacist-driven ambulatory care clinics utilize consult agreements that allow pharmacists to initiate, discontinue, and modify medications for the disease states delegated by the physician. Residents will gain experience in a variety of practice areas, including: primary care, anticoagulation, cardiology, endocrinology, pharmacy administration, leadership, hematology, pulmonology, and education. Residents will care for patients in clinics, as well as participate in patient education, serve as preceptors, and provide discharge counseling. In addition to completing a research project and drug use evaluation/quality improvement project, the resident will present at the Florida Resident Conference, monthly Lunch N Learn seminars, and leadership journal club.

CONTACT

Ambulatory Care Residency (PGY-2) Director

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Cleveland Clinic Martin Health

Cleveland Clinic Martin Health is a 521-bed community-based health care organization that offers preventive, primary and acute hospital care, located in Stuart, Florida, and Port St. Lucie, Florida. Our health system is composed of 3 hospitals, a stand-alone emergency department, as well as the Robert & Carol Weissman Cancer Center, rehabilitation services, and numerous primary care clinics. Our mission is to provide exceptional health care, hope and compassion to every patient, every time.



Cleveland Clinic Martin Health offers expertise in many specialty services, including emergency medicine (over 100,000 visits annually), a level II neonatal intensive care unit, cardiovascular critical care (CVICU), medical ICU, surgical ICU, orthopedics, cardiothoracic surgery, infectious diseases, neurology, and geriatric care. Clinical services have expanded to include partnerships with Moffitt Cancer Center and Nemours Children's Health System. Cleveland Clinic Martin Health has retained certification as a Primary Stroke Center for more than 10 years, and has achieved national recognition as an Orthopaedic Specialty Center of Excellence, Joint Commission Certification in Patient Blood Management, Blue Distinction Center in Cardiac Care, Blue Distinction Center for Knee and Hip Replacement, Commission on Cancer Outstanding Achievement Award, and the Pinnacle of Excellence Award for the Martin Health Physician Group.

The Department of Pharmacy provides comprehensive pharmacotherapeutic services throughout our health system using a decentralized staffing model. In addition to PGY1 residents, Martin Health serves as a primary precepting site for IPPE and APPE students from local colleges of pharmacy. Clinical services include code blue and stroke alert response, ED culture call back, medication reconciliation, patient education and counseling, bedside delivery prescription services, vancomycin, aminoglycoside, and warfarin consult programs and advanced technologies incorporated to expedite and ensure safe patient care.

PGY
1

Pharmacy Residency

The multi site Pharmacy Residency (PGY-1) is designed to provide in-depth training in multiple aspects of hospital pharmacy including: pharmacokinetics, nutritional support, oncology, critical care, pharmacy administration, infectious disease, and ambulatory care. Residents' expectations include, but are not limited to, preparing in-services, MUEs, and completion of a longitudinal residency project. The PGY1 program is designed to meet each resident's interests and needs and assist them in developing as clinical pharmacists. Required rotations in acute care include internal medicine (1 month), critical care (2 months), emergency medicine (1 month), and additional rotations in administration (1 month), clinical research (1 month), and orientation (1 month). Residents will have the opportunity to select 5 months of electives from the following: emergency medicine II, pediatrics, nephrology, oncology, transitions of care, infectious diseases, medication safety, academia, or repeating a core rotation.

Cleveland Clinic Martin Health precepts pharmacy students from a number of pharmacy schools in the area, including University of Florida, Nova Southeastern University, Palm Beach Atlantic University, and the University of South Florida. Residents will have the opportunity to precept and develop teaching skills through interaction with the students. A formal teaching certificate program is also available for residents with advanced interest in academia.



CONTACT

Pharmacy Residency (PGY-1) Director
Jaelyn O'Connor, PharmD, BCPS

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Cleveland Clinic Weston

Cleveland Clinic Weston, located in Weston, Florida is a 205 bed, not-for-profit, multi-specialty academic medical center that integrates clinical and hospital care with research and education.

Cleveland Clinic Weston has 240 physicians with expertise in 35 specialties. The medical campus is fully integrated and includes diagnostic centers, outpatient surgery and a 24-hour emergency department located in the state-of-the-art hospital. Cleveland Clinic Weston ranked No. 1 in the Miami-Fort Lauderdale metro area and No. 5 in Florida in the 2021-2022 “Best Hospitals” rankings by *U.S. News & World Report*.

Cleveland Clinic Weston is an integral part of the Cleveland Clinic Health System, where providing outstanding patient care is based upon the principles of cooperation, compassion and innovation.



Pharmacy Residency

The Cleveland Clinic Weston Pharmacy Residency (PGY-1) is a one-year postgraduate program. The resident receives extensive training and experience in all areas of hospital pharmacy practice. They will integrate into the healthcare team and utilize evidence-based medicine to optimize drug therapy outcomes.

The resident gains understanding and confidence in the practice of patient-centered care and is integral to the resolution of drug-related problems. The resident conducts practice-related research and develops skills in educating healthcare professionals and the community. Upon completion of the training program, the resident will have a fundamental understanding of healthcare system processes from a community institutional practice perspective.

Required rotations include orientation, internal medicine, critical care (medical ICU), critical care (surgical ICU), infectious disease, ambulatory care, transplant I (abdominal transplant), transplant II (heart transplant/HF), health system pharmacy leadership/management, emergency medicine, and oncology. Elective opportunities exist in nephrology, cardiology, and neurology. Additionally, residents will have experiences in drug information, research, policy development and education throughout the year. Residents attend the ASHP Midyear Clinical Meeting and Florida Residency Conference.



For more information about Cleveland Clinic Weston Residency (PGY-1), visit www.clevelandclinicflorida.org.

CONTACT

Pharmacy Residency (PGY-1) Director
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Florida Regional – Multi-site

Weston Hospital



Tradition Hospital



Martin North Hospital



Martin South Hospital



Indian River Hospital



PGY
1
&
2

Health-System Pharmacy Administration and Leadership/MS

The Health-System Pharmacy Administration and Leadership Residency (PGY-1 and PGY-2) and master's degree is a specialized two-year program with the primary objective of developing pharmacy leaders who are trained and prepared to immediately assume managerial positions within large, integrated healthcare delivery systems, leading to Director of Pharmacy positions. Residents experience training, mentoring and modeling in pharmacy administration and leadership. Residents will have exposure to central pharmacy, sterile products, acute care, emergency department, ambulatory, and decentralized clinical services to gain experience with front-line supervision.

HSPAL Residents also oversee the pharmacy repackaging program at the Florida Research and Innovation Center to gain further experience with management and direct supervision. In addition to presentations and projects, residents are required to complete a large project and submit a manuscript for publication.

Residents will gain instruction on the provision of safe, appropriate, and cost-effective use of medication across the continuum of care

through the application of knowledge and skills in patient care. Required residency learning experiences include inpatient pharmacy operations, primary care, inpatient med/surg, critical care, supply chain, finance, and med safety/drug information. The residents gain knowledge to understand, analyze and manage the changing nature of today's complex medical delivery systems and leadership skills necessary for change management and managing the pharmacy enterprise. Required activities include presentations, coursework, projects, a manuscript, and staffing and management on-call responsibilities.

CONTACT

Health-System Pharmacy Administration
and Leadership Residency Director
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Application Requirements

PGY1 Programs:

Interested applicants must be PharmD graduates of accredited college of pharmacy, be eligible for licensure in the State of Ohio (or Florida if applicable), and submit the standard application materials through PhORCAS (i.e. Letter of Intent, CV, the 3 standard reference forms in PhORCAS, official college transcripts), along with:

1. We request a minimum of one (two is preferred) of your three references should come from a preceptor who you have worked with in a clinical setting, related to an APPE in acute or ambulatory care. The clinical preceptor should be able to comment on your scope of responsibility, total patient load, level of autonomy, clinical abilities, and organizational and time management skills. All 3 reference writers should use the standard PhORCAS template to submit their candidate recommendation.
2. A response to the following essay statement is required for acceptance. The essay response should be no longer than one page in length. An application will not be reviewed if this statement is missing. Please note that the essay is separate from your letter of intent. Reflecting on your APPE rotations, please provide a piece of critical feedback you have received from one of your preceptors on a direct patient care rotation. Explain how you have incorporated this feedback into your practice and/or worked to improve in this area.

PGY2 Programs:

Interested applicants must be PharmD graduates of accredited college of pharmacy, be eligible for licensure in the State of Ohio (or Florida if applicable), and submit the standard application materials through PhORCAS (i.e. Letter of Intent, CV, the 3 standard reference forms in PhORCAS, official college transcripts), along with:

1. We request a minimum of one (two is preferred) of your three references should come from a preceptor who you have worked with in a clinical setting, related to a PGY1 rotation in acute or ambulatory care. The clinical preceptor should be able to comment on your scope of responsibility, total patient load, level of autonomy, clinical abilities, and organizational and time management skills. All 3 reference writers should use the standard PhORCAS template to submit their candidate recommendation.
2. A response to the following essay statement is required for acceptance. The essay response should be no longer than one page in length. An application will not be reviewed if this statement is missing. Please note that the essay is separate from your letter of intent. Reflecting on your PGY1 residency rotations, please provide a piece of critical feedback you have received from one of your preceptors on a direct patient care rotation. Explain how you have incorporated this feedback into your practice and/or worked to improve in this area.

Please submit all application materials via Pharmacy Online Residency Centralized Application Service (PhORCAS). **Deadline for receipt of these materials to be considered for an on-site interview is January 1, 2022 by 11:59 PM.** For the PGY-2 residency programs (Ambulatory Care, Cardiology, Critical Care, Emergency Medicine, Infectious Diseases, Informatics, Investigational Drugs and Research, Medication-Use Safety and Policy, Oncology, Pediatrics, Pharmacogenomics, and Solid Organ Transplant), a Pharmacy (PGY-1) Residency or equivalent experience is required.

Cleveland Clinic Health-System Residency sites agree that no person at these sites will solicit, accept, or use any ranking-related information from any residency applicant.

NOTE: 1. Residency applicants must currently be authorized to work in the United States. Cleveland Clinic Pharmacy does not sponsor applicants for work Visas.

2. Appointments of applicants to residency positions may be contingent upon the applicants satisfying certain eligibility requirements [e.g., graduating from accredited college of pharmacy, obtaining pharmacist license in Ohio (for Ohio sites) or Florida (for Florida sites) within 90 days of start date, and successful completion of a pre-employment physical and drug screen, including testing for cotinine].
3. Unfortunately, we cannot accommodate OPT (Optional Practical Training) Visas for the Cleveland Clinic Pharmacy Residency Program as the program extends beyond 12 months.
4. The Cleveland Clinic Pharmacy Residency Program does not meet the qualifications of an OPT STEM employer because Cleveland Clinic is not enrolled in E-Verify.
5. Candidates must meet all requirements at the time of application deadline
6. The Center for Health Sciences Education and Cleveland Clinic are committed to valuing all people through our organization, regardless of background or culture. A diverse and inclusive environment for students and staff and culturally appropriate care for our patients, are essential to fulfilling our vision to be the best place for care anywhere and the best place to work in healthcare. We welcome students from diverse backgrounds and cultures.
7. Cleveland Clinic requires all employees to demonstrate proof of full COVID-19 Vaccination.

<https://my.clevelandclinic.org/departments/pharmacy/education/residency-programs>



ASHP PURPOSE STATEMENTS:

PGY1 PROGRAM PURPOSE: PGY1 pharmacy residency programs build on Doctor of Pharmacy (Pharm.D.) education and outcomes to contribute to the development of clinical pharmacists responsible for medication-related care of patients with a wide range of conditions, eligible for board certification, and eligible for postgraduate year two (PGY2) pharmacy residency training.

PGY1 COMMUNITY-BASED PROGRAM PURPOSE: To build upon the Doctor of Pharmacy (PharmD) education and outcomes to develop community-based pharmacist practitioners with diverse patient care, leadership, and education skills who are eligible to pursue advanced training opportunities including postgraduate year two (PGY2) residencies and professional certifications.

PGY2 PROGRAM PURPOSE: PGY2 pharmacy residency programs build on Doctor of Pharmacy (Pharm.D.) education and 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, if available.



All COVID-19 required precautions were followed at the time of these photographs

<https://my.clevelandclinic.org/departments/pharmacy/education/residency-programs>



Every life deserves world class care.

9500 Euclid Ave., Cleveland, OH 44195

Cleveland Clinic is a nonprofit, multispecialty academic medical center integrating outpatient and hospital care with research and education for better patient outcomes and experience. More than 4,500 staff physicians and researchers provide services through 20 patient-centered institutes. Cleveland Clinic is a 6,026-bed healthcare system with a main campus in Cleveland, 18 hospitals and over 220 outpatient locations. The health system includes five hospitals in Southeast Florida with more than 1,000 beds, a medical center for brain health in Las Vegas, a sports and executive health center in Toronto and a 364-bed hospital in Abu Dhabi. Cleveland Clinic London, a 184-bed hospital, will open in 2022. Cleveland Clinic is currently ranked as one of the nation's top hospitals by *U.S. News & World Report*. clevelandclinic.org