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Postgraduate Training Programs

Cleveland Clinic is a nonprofit, multispecialty academic medical center that is recognized in the U.S. and throughout the world for its expertise and care. The health system comprises a main campus medical center in Cleveland and 22 additional hospitals, including five in Southeast Florida. In total, there are 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 eighteen PGY-1 and PGY-2 pharmacy residency programs, and at our regional hospitals (Florida and Ohio), we offer fifteen PGY-1 programs, one PGY-1/2 Health- System Pharmacy Administration program, two PGY-2 Critical Care programs, two PGY-2 Emergency Medicine programs, and one PGY-2 Ambulatory Care program.

Residency Overview

Our residency programs provide education and training with a primary emphasis on the development of skills in specialized pharmacy practice areas. Throughout the year, residents are involved in 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. 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. PGY-1 residents attend the ASHP Midyear Clinical Meeting, a residency conference, and have the opportunity to attend and participate in other state and local conferences. PGY-2 residents attend a specialty conference within their practice area and have the opportunity to attend and participate in other state and local conferences.

Residents may elect to enhance their leadership skills through the longitudinal completion of ASHP's Pharmacy Leadership Certificate: Management Basics course.

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

Our Commitment to Diversity, Equity, and Inclusion

Cleveland Clinic is committed to valuing all people throughout 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.

Our Commitment to Fostering a Healthy Environment

We empower pharmacy practitioners to minimize the environmental impacts of healthcare while optimizing patient outcomes and supporting the many communities we call home. The Department of Pharmacy has a Greening the Pharmacy initiative with the goal of leading by example and acting as stewards of our precious natural resources for the wellbeing of all.

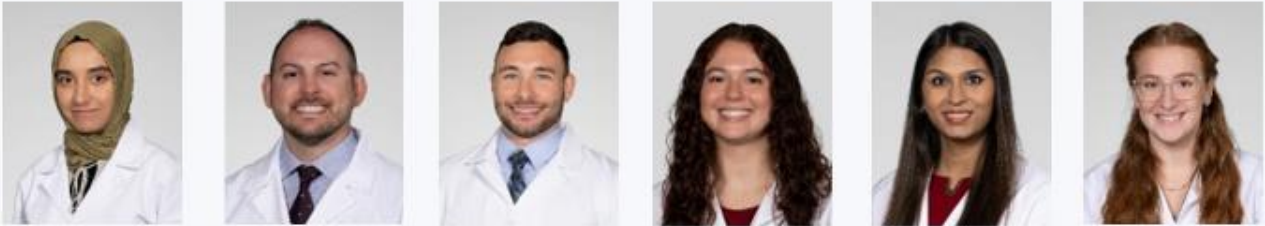
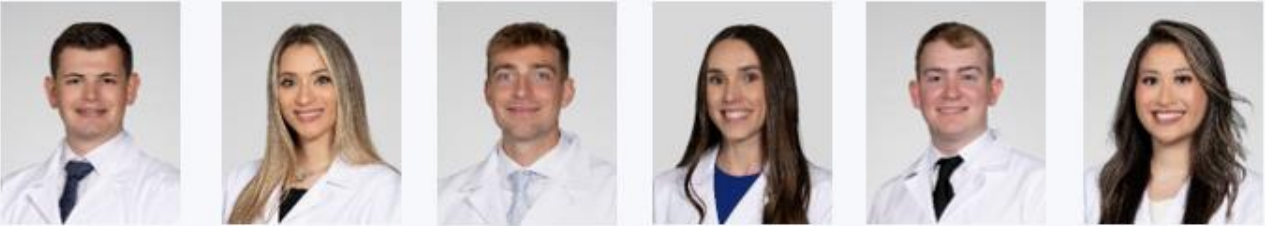


Cleveland Clinic Main Campus

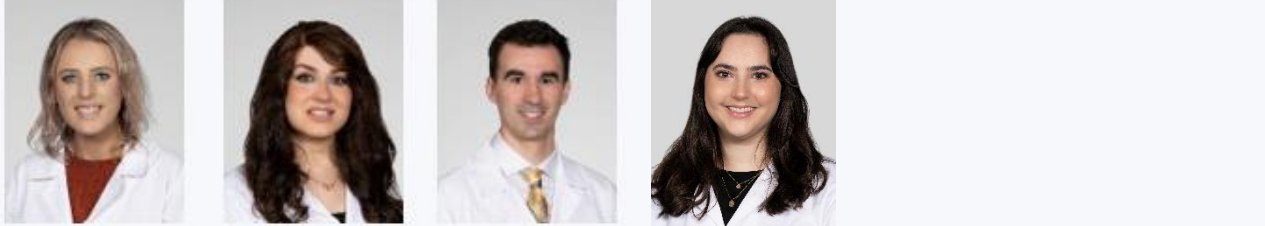
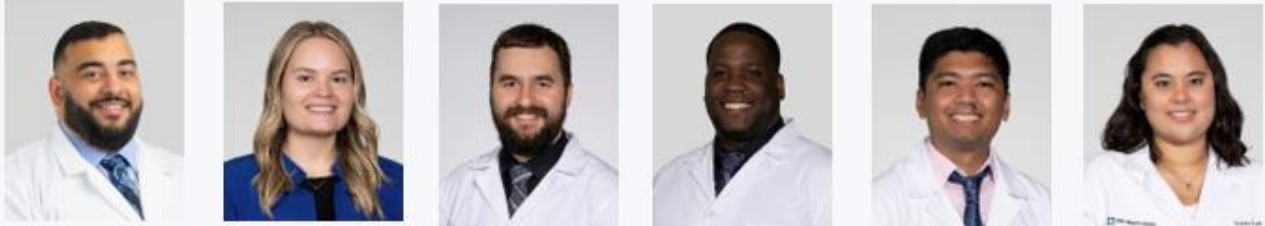
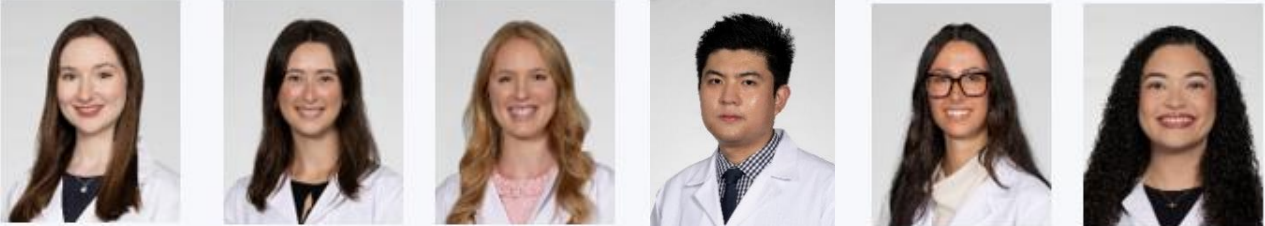
Cleveland Clinic’s main campus houses inpatient, outpatient, research, administrative, educational, and lodging facilities located on 173 acres near downtown Cleveland and University Circle. The complex includes hospitals providing adult and pediatric care and buildings dedicated to specialized clinical and surgical services for patients, as well as the Health Education Campus of Case Western Reserve University and Cleveland Clinic, where medical, nursing, and dental students train. Current main campus growth projects include a new 1 million-square-foot building that consolidates inpatient and outpatient neurological care; an expansion and renovation of the Cole Eye Institute; new research towers and construction of new labs in the Lerner Research Institute; and the recent installation of the nation’s first quantum computer devoted to healthcare research in the Cleveland Clinic-IBM Discovery Accelerator.

MAIN CAMPUS RESIDENTS

PGY 1



PGY 2



Pharmacy Residency

The PGY1 Pharmacy residents will practice at Cleveland Clinic main campus. Required rotations are: Internal Medicine 1, Practice Management, Drug Information, Medication Safety, and Adult Critical Care. Residents will select six elective rotations from the following list: Ambulatory Care, Cardiology, Critical Care 2, Emergency Medicine, Infectious Diseases, Informatics, Internal Medicine 2, Neurology, Oncology, Pediatrics, Pharmacogenomics, Practice Management 2, Psychiatry, and Solid Organ Transplant, of which one must be in an ambulatory clinic. Pharmacist preceptors are available for all rotations listed.

Residents will complete a large research project and manuscript and present at internal and external venues. Residents will complete an additional small research project (i.e. medication use evaluation) and present at an internal venue. Residents are required to staff 19 weekends per year, work two Cleveland Clinic-recognized holidays, and participate in an on-call program.

Community-Based Pharmacy Residency

This is a multi-site program with primary practice site at Stephanie Tubbs Jones (East Cleveland, Ohio) or Twinsburg Family Health Center (Twinsburg, Ohio). PGY1 community-based residents practice within regional and main campus Cleveland Clinic ambulatory pharmacies, ambulatory care clinics, specialty pharmacy, and the employee health plan. Required rotations are community practice, practice advancement & leadership, anticoagulation, primary care, specialty pharmacy, employee health plan, HIV ambulatory care clinic, teaching and education, and transitional care management. Residents will select one elective rotation from the following list: heart failure, diabetes/endocrinology, regional oncology clinic, geriatrics, or other advanced practice area of the resident’s choosing. Pharmacist preceptors are available for all rotations. Residents will complete a teaching certificate program through Northeast Ohio Medical University (NEOMED) College of Pharmacy. Residents are required to complete a large project and manuscript, a business plan, a quality improvement small project, and a drug class review, monograph, treatment protocol, utilization management criteria, or order set. Residents will present internally at resident conference,

To assist with building research skills, the residents will participate in a research curriculum that takes place throughout the year. Additional research resources include: staff statistician, statistical software, and grant funding through the department of pharmacy. Residents also participate in a longitudinal pharmacy emergency response curriculum.

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PGY 1

PGY 1

ambulatory care monthly, and the employee health plan P&T committee, and externally at the Ohio Pharmacist Association or Ohio College of Clinical Pharmacy Spring Meeting. Financial support is provided to attend the ASHP Midyear meeting dependent on institutional travel limitations. Residents are required to staff every third Saturday from September through June and are assigned to work two Cleveland Clinic-recognized holidays. Residents must complete four community service activities. To assist with building research skills, the residents will participate in research curriculum and skills workshops throughout the year. Additional research resources include staff statistician, statistical software, and grant funding through the department of pharmacy.

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PGY 1 **Community-Based Pharmacy Residency (Specialty)**

The PGY1 Community-Based Pharmacy Resident will practice at Cleveland Clinic Specialty Pharmacy on the administrative campus of Cleveland Clinic within the care coordination center, as well as select regional and main campus Cleveland Clinic ambulatory care clinics. Required rotations are: orientation, care coordination center 1/2/3 (disease states including: autoimmune/inflammatory, cardiology, hematology, hepatology/HIV, neurology, oncology, osteoporosis), and ambulatory care clinics 1/2/3, where the resident will have an opportunity to choose from 3 different clinics (neurology, gastroenterology, rheumatology, and regional oncology). Other required longitudinal rotations that are longitudinal include: patient-centered dispensing, practice management, projects, and teaching and education. The resident will complete a teaching certificate program through Northeast Ohio Medical University (NEOMED). Pharmacist preceptors are available for all rotations listed.

Residents will complete a research project and manuscript, business plan for a new or enhanced service, and a collaborative practice agreement, standing order, or state-based protocol. Residents will present at the following venues: resident conference, ambulatory care conference, administrative campus

pharmacy service line topic discussion series, and the Ohio Pharmacists Association spring meeting. Residents are required to staff in a blocked fashion through the care coordination center learning experiences (4 days per week for 1 week at midpoint and 2 weeks at the end of the learning experience) and participate in the on-call program every month for a week in the second half of the residency year. There is no holiday staffing. Residents must complete 4 community health activities or events.

To assist with building research skills, the residents will participate in the residency research curriculum that takes place throughout the residency year. Additional research resources include staff statistician, statistical software, and grant funding through the department of pharmacy.

CONTACT

Community-Based Pharmacy Residency Director
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Pharmacotherapy Residency

PGY1/2 Pharmacotherapy residents will practice at Cleveland Clinic main campus over 24 months. The PGY-1 year mirrors the Pharmacy PGY-1 residency program in terms of required and elective rotations, but the rotations are arranged in clinical blocks of two to three months, which 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 their second year.

Residents will complete a research project, manuscript, and present at local and national venues. Residents are required to staff 19 weekends during their first year and 15 weekends during their second year, work two Cleveland Clinic-recognized holidays per year, and participate in an

on-call program. To assist with building research skills, the residents will participate in research curriculum that takes place throughout the year. Additional research resources include: staff statistician, statistical software, and grant funding through the department of pharmacy. Residents also participate in a longitudinal pharmacy emergency response curriculum.

CONTACT

Pharmacotherapy Residency Director
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PGY 1 & 2 **Health-System Pharmacy Administration and Leadership Residency/MS**

The PGY -1/PGY-2 Health System Pharmacy Administration and Leadership residency with MS in Pharmacy Leadership (offered through the University of Cincinnati) is a two-year program within the Cleveland Clinic Health System. The PGY-1-year mirrors the PGY-1 Pharmacy residency program at Cleveland Clinic main campus in terms of required and elective rotations as well as staffing requirements. Residents will have an additional management rotation to gain a firm understanding of pharmacy operations in our main pharmacy and sterile products areas. During the PGY2 year, residents will complete the following required rotations: inpatient pharmacy operations, acute care services, supply chain, finance, med safety, formulary management, and informatics while on rotations with members of our leadership team. These rotations will provide an understanding of the changing nature of today's complex medical delivery systems and leadership skills necessary for change management and managing the pharmacy enterprise.

Elective rotations are offered in population health, practice advancement/advocacy, 340B, specialty pharmacy, and advanced operations within our regional hospital affiliates. Residents will complete a research project during their PGY1 and PGY2 years and develop a supporting manuscript with each project. The PGY2 project also doubles as a requirement for a capstone project associated with the master's degree. To build research skills, the residents will participate in the residency research curriculum that takes place throughout the residency year. Residents will be given the opportunity to present at local residency conference as well as attend ASHP Summer, Leadership and Midyear meetings.

CONTACT

Health-System Pharmacy Administration and Leadership Residency Director
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Ambulatory Care Residency

PGY2 Ambulatory Care residents will practice within the 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 or advanced practice provider. Required rotations are: primary care 1, primary care 2, anticoagulation 1, anticoagulation 2, pharmacy administration 1, diabetes 1, geriatrics, heart failure, HIV. Residents will select two elective rotations from the following list: diabetes 2, gastroenterology, managed care, pharmacogenomics, pharmacy administration 2, pulmonary, rheumatology, specialty pharmacy, transplant. Pharmacist preceptors are available for all rotations listed. Additionally, direct patient care rotations have embedded pharmacists within the specialty outpatient practices.

Residents will complete a research project, manuscript and present at the resident conference, ambulatory care monthly, and the APPE student lecture series. To assist with building research skills, the residents will participate in the research curriculum that takes place throughout the year. Additional resources include: staff statistician, statistical software, and grant funding through the department of pharmacy.

CONTACT

Ambulatory Care Residency (PGY-2) Director
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PGY 2 **Cardiology Residency**

The PGY2 Cardiology resident will practice within the Heart, Vascular and Thoracic Institute at Cleveland Clinic main campus. Required rotations are clinical cardiology, coronary ICU, advanced heart failure/heart transplant, CVICU, imaging, and heart failure ambulatory clinic. Residents can select at least one elective rotation such as Emergency Medicine, Pediatric Cardiology, Pulmonary Hypertension, and Vascular Medicine. Other longitudinal learning experience includes emergency response course.

The resident will complete a research project, drug use evaluation/ quality improvement project, drug monograph and complete a manuscript. To assist with building research skills, the residents will participate in research curriculum throughout the year. Additional research resources include: staff statistician, statistical software, and grant funding through the department of pharmacy.

There are multiple opportunities to present in the following settings: resident conference, APPE student lecture series, Cardiology Late breaking journal club, and critical care conference. The resident will participate in the on-call program (which includes participation in stroke response), clinical staffing 15 weekends (30 eight-hour shifts), working two Cleveland Clinic-recognized holidays, as well as participation in hospital committees.

CONTACT

Cardiology Residency (PGY-2) Director
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PGY 2 **Critical Care Residency**

The PGY2 Critical Care residents will practice at Cleveland Clinic main campus with an opportunity for an elective off-site trauma rotation within the Cleveland Clinic Health System. Required rotations are: medical, surgical, cardiothoracic surgery, cardiac, and neurosciences intensive care units. Residents will select several elective rotations from the following list: clinical teaching, emergency medicine, heart failure/heart transplant, infectious diseases, informatics, pediatric intensive care unit, medical intensive liver unit, neurology/stroke, oncology, transplant surgical intensive care unit, and trauma. Pharmacist preceptors are available for all rotations listed.

Residents will complete a research project, drug use evaluation/quality improvement project, manuscript, drug monograph, and present at the following venues: resident conference, APPE student lecture series, and critical care conference. Residents are required to staff 15 weekends per year, two Cleveland Clinic-recognized holidays, and participate in the on-call program. Other longitudinal learning experiences include emergency response and post-

intensive care recovery clinic. To assist with building research skills, the residents will participate in research curriculum that takes place throughout the year. Additional research resources include: staff statistician, statistical software, and grant funding through the department of pharmacy.

The Cleveland Clinic Main Campus PGY2 Critical Care Pharmacy Residency Program was selected as the 2020 winner of the American Society of Health System Pharmacists (ASHP) Residency Excellence Award.

CONTACT

Critical Care Residency (PGY-2) Director
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PGY 2

Emergency Medicine Residency

The PGY2 Emergency Medicine resident will practice primarily in the Cleveland Clinic main campus Emergency Department with an offsite trauma rotation within the Cleveland Clinic Health System and an offsite toxicology rotation. Required rotations include two emergency medicine core rotations, a trauma emergency medicine rotation, a medical intensive care unit rotation, a neurosciences intensive care unit rotation, a pediatric intensive care unit rotation, a concentrated toxicology rotation, and an advanced emergency medicine rotation. Residents will have the opportunity to select at least one elective rotation such as: pediatric emergency medicine, coronary intensive care unit, solid organ transplant, infectious diseases, cardiothoracic intensive care unit, or immunocompromised infectious diseases.

Residents will complete a research project, a drug-use evaluation, a manuscript, a drug monograph, and present at several venues, including resident conference, emergency medicine journal club, ED nursing orientation, and the APPE student lecture series.

To assist with building research skills, the residents will participate in research curriculum that takes place throughout the year. Additional research resources include: staff statistician, statistical software, and grant funding through the department of pharmacy.

Residents are required to staff 15 weekends and two Cleveland Clinic-recognized holidays per year and participate in an on-call program.

CONTACT

Emergency Medicine Residency (PGY-2) Director
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Infectious Diseases Residency

The PGY2 Infectious Diseases Residency is a one-year training program within the Cleveland Clinic Health System. The residency is focused on direct patient care through infectious diseases consult services and clinic, antimicrobial stewardship, practice management, and education. Required concentrated rotations are General ID, Antimicrobial Stewardship 1 and 2, Immunocompromised ID 1 and 2, Microbiology, Endocarditis, Bone and Joint ID Consults, Neurosciences ID Consults, and Pediatric ID. Required longitudinal rotations are Human Immunodeficiency Virus (HIV)/ID Outpatient Clinic, Leadership & Formulary Management, Research, and Education/Presentations. Residents may select from a variety of elective rotation experiences including: Community ID Practice, Intensive Care Unit ID, Advanced ID Consults, Outpatient Parenteral Antimicrobial Therapy, Travel Medicine, and Public Health. Pharmacist preceptors are available for all rotations listed.

Residents will complete a research project, a quality assurance/quality improvement project, a manuscript, a drug monograph and present at the following venues: resident conference, ID Monthly, APPE student lecture series, and the Making a Difference in Infectious Diseases (MAD-ID) conference. To assist with building research skills, the residents will participate in research curriculum that takes place throughout the year. Additional research resources include availability of a staff statistician, statistical software, and grant funding through the department of pharmacy.

Residents are required to staff 15 weekends and two Cleveland Clinic-recognized holidays per year and participate in an on-call program.

CONTACT

Infectious Diseases Residency (PGY-2) Director
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PGY 2

PGY 2 Internal Medicine Residency

The PGY2 Internal Medicine resident will practice at Cleveland Clinic main campus. Required rotations include: Advanced Internal Medicine 1, Advanced Internal Medicine 2, Advanced Internal Medicine 3, Nephrology, and Pulmonary Medicine. Additionally, Infectious Disease and Critical Care will be required if not completed as a PGY-1 resident. Residents will select at least one elective rotation from the following: Ambulatory Care, Clinical Cardiology, Drug Information/Medication Safety, Emergency Medicine, Hepatology, Infectious Diseases, Critical Care, Neurology, and Transplant. Pharmacist preceptors are available for all rotations listed.

Residents will complete a research project, a drug use evaluation, a manuscript, and present at the following venues: Resident Conference, Internal Medicine Conference, and the APPE student lecture series. Residents are required to staff 15 weekends per year, work two Cleveland Clinic- recognized holidays, and participate in an on-call program.

Other longitudinal learning experiences include student precepting and participation in an Internal Medicine Formulary Committee. To assist with building research skills, the residents will participate in the research curriculum that takes place throughout the year. Additional research resources include: staff statistician, statistical software, and grant funding through the department of pharmacy. Optional experience: Residents can choose to complete a teaching certificate through Northeast Ohio Medical University.

CONTACT

Internal Medicine Residency (PGY-2) Director
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PGY 2 Medication-Use Safety and Policy Residency

The PGY2 Medication-Use Safety and Policy resident will practice at Cleveland Clinic main campus. Required rotations are: Drug Information Practice and Service, Advanced Drug Information Practice and Service, Formulary Management and Pharmacy and Therapeutics Committee Support, Pharmacy Administration and Drug-Use Policy, Formulary Implementation, Pharmacy Informatics, Medication Safety, Advanced Medication Safety, and Regulatory and Accreditation. Residents will have the opportunity to select at least one elective rotation from the following: Pediatric Medication Safety, or advanced experiences in previously completed rotation areas. Pharmacist preceptors are available for all rotations listed.

Residents will complete two medication monographs, a medication-use evaluation, research project, manuscript, and present at the following venues: resident conference, quarterly Drug Information Conference, and the APPE student lecture series. Residents will attend and present at the Cleveland Clinic Health System Medical Staff Pharmacy & Therapeutics Committee and corresponding formulary specialty panels.

Residents are required to staff 15 weekends per year, work two Cleveland Clinic-recognized holidays, and participate in the on-call program. They will also participate in the drug information on-call service.

To assist with building research skills, residents will participate in research curriculum that takes place throughout the year. Additional research resources include: staff statistician, statistical software, and grant funding through the department of pharmacy.

CONTACT

Medication-Use Safety and Policy Residency (PGY-2) Director
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PGY 2

Neurology Residency

The PGY2 Neurology resident will practice at Cleveland Clinic main campus with an opportunity for elective off-site rotations within the Cleveland Clinic Health System. The residency is focused on direct patient care through required rotations including Stroke Neurology, General Neurology, Neurosurgery, Neurosciences ICU, Advanced General Neurology, Epilepsy, and Ambulatory Neurology. The resident will have a variety of elective rotations to choose from including Trauma ICU, Neurology Infectious Disease, Neuroimmunology, Behavioral Health, and Emergency Medicine. This program will be customizable to the resident's goals and interests.

The resident will complete a research project, drug use evaluation/quality improvement project, manuscript, and drug monograph. To support building the resident's research skills, the resident will participate in a research curriculum that takes place throughout the year.

Additional research resources include availability of a staff statistician, statistical software, and grant funding through the department of pharmacy. The resident will have opportunities to provide formal presentations at resident conference and neurology pharmacy conference. The resident will partake in the on-call program, clinical staffing (15 weekends), and work two Cleveland Clinic recognized holidays. Additional longitudinal learning experiences include post neurosciences ICU virtual recovery clinic and participation in hospital committees.

CONTACT

Neurology Residency (PGY-2) Director
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Oncology Residency

The PGY2 Oncology resident will practice at Cleveland Clinic main campus. Required patient care experiences include leukemia, blood and marrow transplantation, pediatric hematology and oncology, and lymphoma and myeloma, and a variety of solid tumor oncology rotations including breast, lung, and gastrointestinal. Residents' direct patient care time will be split inpatient and outpatient. Required non-direct patient care experiences include oncology leadership and management, investigational drug services, and chemotherapy operations. Elective rotations include inpatient immunocompromised infectious diseases, inpatient medical oncology, oncology informatics, pediatric blood and marrow transplantation, and many others. Residents will complete a research project, medication-use evaluation or quality project, and a drug monograph. Additionally, they will participate in the formulary management process, chemotherapy protocol validations, and present at resident conference, weekly oncology disease state and therapeutics discussions.

Residents will present at an oncology specific conference such as the Hematology/Oncology Pharmacy Association Spring meeting. To build research skills, the residents will participate in research curriculum that takes place throughout the year. Research resources include a staff statistician, statistical software, and grant funding through the department of pharmacy. Residents are required to staff 15 weekends per year, work two Cleveland Clinic-recognized holidays, and participate in an on-call program.

CONTACT

Oncology Residency (PGY-2) Director
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PGY 2

PGY 2 **Pediatric Residency**

The PGY-2 Pediatric Residency is a one-year training program within the Cleveland Clinic Health System. 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 pediatric resides hospital 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 are 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

Pediatric Residency (PGY-2) Director

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PGY 2 **Clinical Pharmacogenomics Residency**

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 that utilizes a consult agreement to allow pharmacists to initiate pharmacogenomics testing, provide interpretations and pharmacogenomics-based recommendations.

Required rotations are: clinical pharmacogenomics 1-4, ambulatory care clinic, ambulatory care specialty clinic, and drug information center. Residents will select up to three elective rotations from oncology, pediatrics, pharmacy informatics, psychiatry and transplant. Pharmacist preceptors are available for all rotations listed. Residents will complete a research project, a drug use evaluation, manuscript, a drug monograph and present at the resident conference, APPE student lecture series, ambulatory care monthly, and the Ohio College of Clinical Pharmacy spring meeting. Residents are required to

staff 15 weekends, work two Cleveland Clinic-recognized holidays, and participate in an on-call program. To assist with building research skills, the residents will participate in research curriculum that takes place throughout the year. Additional research resources include: staff statistician, statistical software, and grant funding through the Department of Pharmacy.

CONTACT

Clinical Pharmacogenomics Residency (PGY-2) Director

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Pharmacy Informatics Residency

The PGY2 Pharmacy Informatics residency offers the opportunity to practice supporting medication use technologies across the Cleveland Clinic Health System. Required rotations include: Automation & Technology, Orders Management, Reporting & Analytics, Clinical Decision Support, Informatics Theory, Informatics Leadership, and Student Precepting. Elective opportunities are available in specialty-focused areas including Oncology Informatics, Ambulatory Informatics, Antimicrobial Stewardship, and Order Set Management.

The resident will complete a longitudinal research project that will involve implementation new technology or optimization of existing technology within the electronic health record or automation systems. The resident will also complete a smaller research project that involves the evaluation of an existing feature within the electronic health record. Residents will also develop a manuscript based on one of the two research projects. Informatics residents will also have the opportunity to deliver presentations at the resident conference and the APPE student lecture series.

Solid Organ Transplant Residency

The PGY2 Solid Organ Transplant residency is a one-year training program and the resident will practice at Cleveland Clinic main campus. Required rotations are kidney transplant, liver transplant, heart failure/transplant, lung transplant, outpatient transplant, immunocompromised infectious diseases, and transplant independent practice. Residents have the option to select several elective rotations from pediatric transplant, intestinal transplant, cardio-thoracic ICU, surgical ICU, and medical ICU. Pharmacist preceptors are available for all rotations listed.

Residents will complete a research project, a drug-use evaluation/quality improvement project, manuscript, drug monograph, and present at resident conference, quarterly transplant journal club, and APPE student lecture series. Residents are required to staff 15 weekends per year, work two Cleveland Clinic-recognized holidays, and participate in an on-call program. To assist

PGY 2

To assist with building research skills, the residents will participate in research curriculum that takes place throughout the year. Additional research resources include: staff statistician, statistical software, and grant funding through the department of pharmacy.

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

CONTACT

Pharmacy Informatics Residency (PGY-2) Director

Marc Willner, PharmD

Cleveland Clinic, Department of Pharmacy
9500 Euclid Ave. JN1-200, Cleveland, Ohio 44195
email: willnem@ccf.org



PGY 2

with building research skills, the residents will participate in research curriculum that takes place throughout the year. Additional research resources include: staff statistician, statistical software, and grant funding through the department of pharmacy.

CONTACT

Solid Organ Transplant Residency (PGY-2) Director

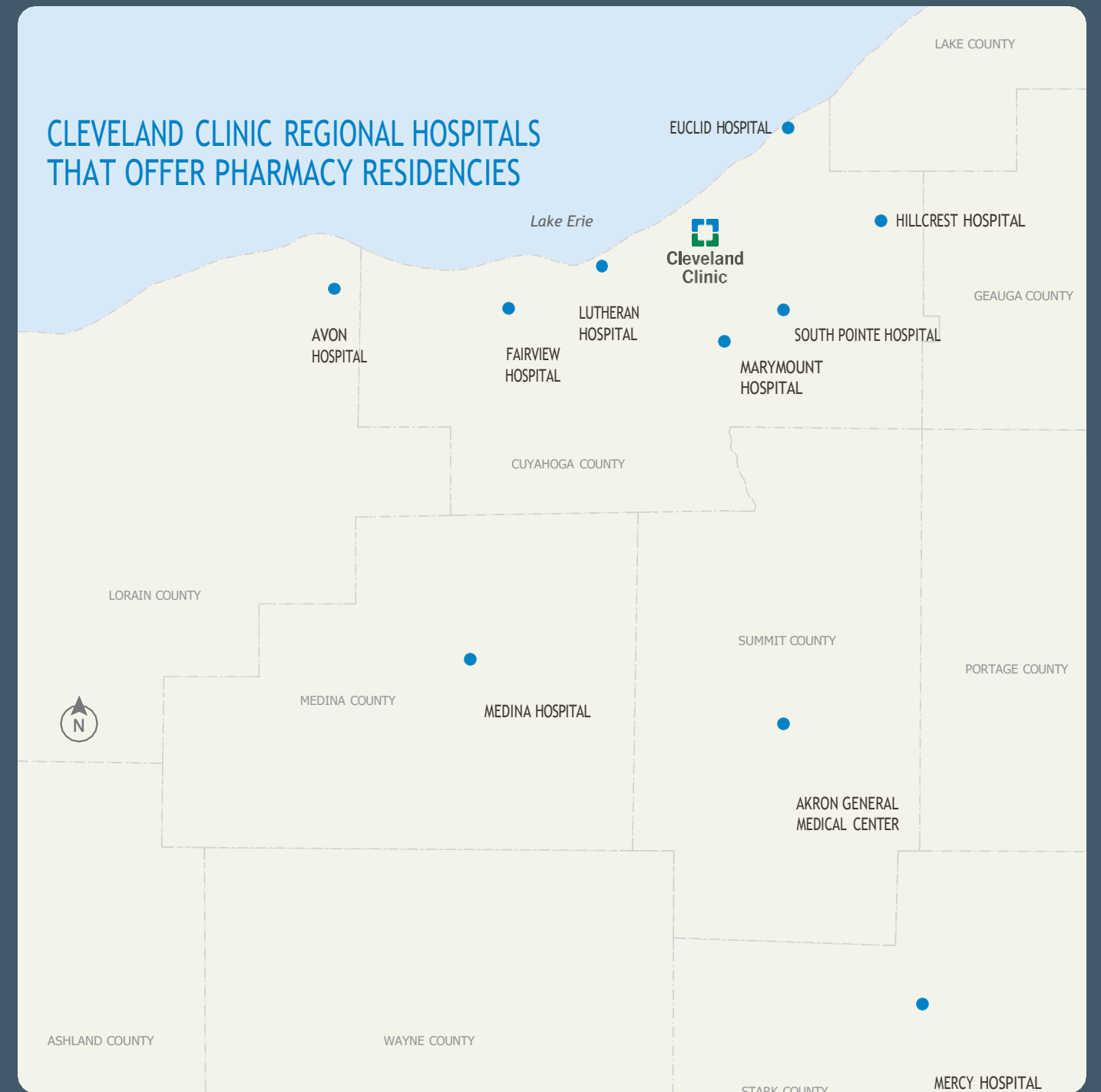
Jamie Eckardt, PharmD, BCPS, BCTXP

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Ohio Regional Hospitals

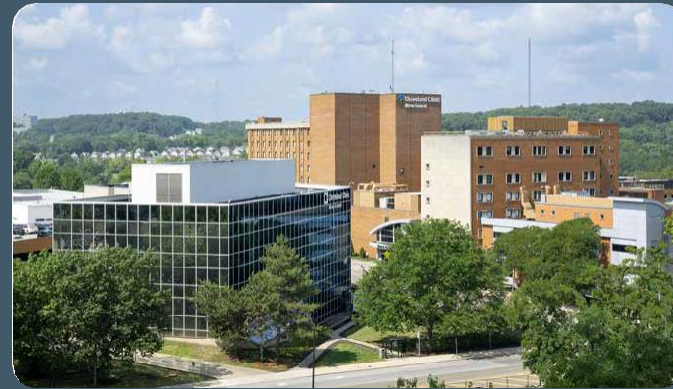


Ohio Regional - Akron General

CLEVELAND CLINIC AKRON GENERAL

Cleveland Clinic Akron General is a 532-bed adult, tertiary care, Level I trauma center that has been serving Akron and surrounding communities for more than 100 years. Akron General has regional referral centers in Cardiology, Cancer, and Orthopedics. As a major teaching hospital, Akron General trains future physicians and pharmacists through 15 high-quality medical and pharmacy residency programs.

The Department of Pharmacy at 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, Cleveland Clinic Hospice Care Center, Ambulatory Care Centers, Lodi Community Hospital, and three free-standing emergency departments and infusion centers. Patient care areas at Akron General are served by a central pharmacy. Distributive services are supported by a decentralized distribution system (BD Pyxis) and centralized BD carousels.



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 unit-based pharmacist model focused on identifying and resolving pharmaceutical care issues while the patient is in-house. The pharmacy is very involved in teaching, serving as an Advanced and Introductory Pharmacy Practice Experience training site for several colleges of pharmacy.



Ohio Regional - Akron General

PGY
1

Pharmacy Residency

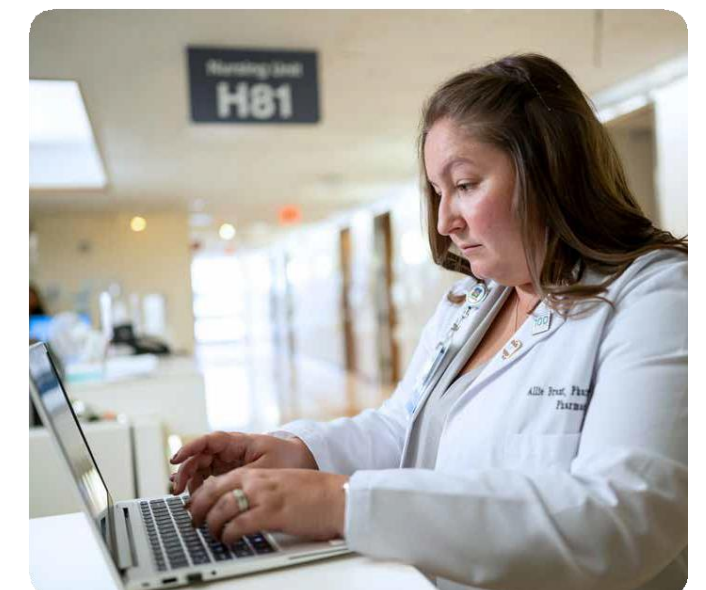
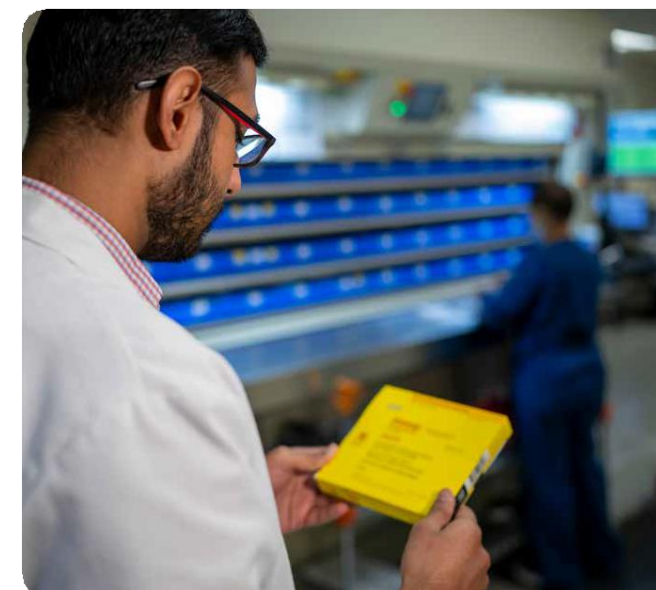
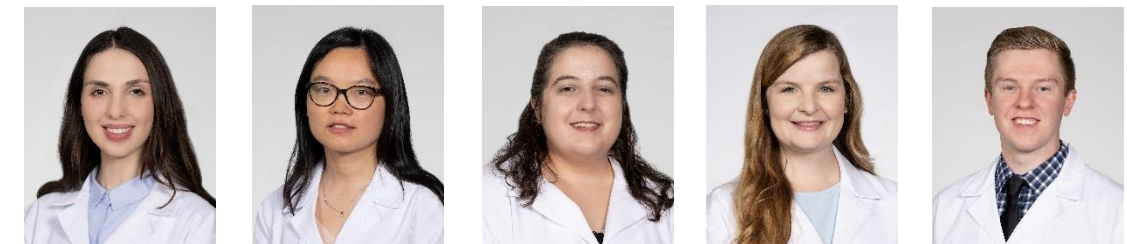
The PGY1 Pharmacy Practice residents will practice at Cleveland Clinic Akron General. Required rotations are: Internal Medicine, Internal Medicine 2, Family Medicine, Critical Care, Infectious Disease, Ambulatory Care, Research, and Unit-Based Pharmacy. Residents will select three elective rotations from the Neuroscience Intensive Care, Cardio-vascular Intensive Care, Surgical Intensive Care, Medical Intensive Care, Emergency Medicine, Opioid Stewardship, Oncology/Hematology, Behavioral Medicine, Advanced Ambulatory Care, and Transitional Care Management. Pharmacist preceptors are available for all rotations listed. Additional elective experiences may be available in ambulatory cardiology, nephrology, bariatric medicine, or other area of interest depending on availability of providers.

Residents will complete a research project, manuscript, and present at a variety of internal and external venues. Residents are required to staff every other weekend (Saturday and Sunday) and three recognized holidays.

Other longitudinal learning experiences include Practice Management, Medication Safety, Medication Policy, Service, presentations at education conferences, Morbidity and Mortality conference, participation in hospital committees and pharmacy student education. To assist with building research skills, the residents will participate in research curriculum that takes place throughout the year. Optional experience: Residents can choose to complete a teaching certificate program through Northeast Ohio Medical University.

CONTACT

Pharmacy Residency (PGY-1) Director
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PGY 1 & 2 **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 or PGY2 HSPAL at Cleveland Clinic Akron General, the resident will possess competence in administrative, financial, medication safety, and leadership, enabling them to manage complex health-system pharmacy departments. Residents completing their PGY2 Year (as part of the combined PGY1/PGY2 MS Program) of the HSPAL residency at Akron General will be trained to begin their careers in a wide variety of managerial positions. During the first year the resident will complete all the same requirements as the PGY1 pharmacy residency, allowing the resident to gain a solid clinical foundation and prepare them to sit for board certification in their second year. Electives in their PGY1 year can be used to gain leadership experience but may also be used to further develop clinical excellence.

In the PGY2 year of the HSPAL residency (both programs), 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, 340B, procurement, and support services. The HSPAL resident will also have required rotations in the Cleveland Clinic Health System to gain diverse experience of leadership at all different levels within the pharmacy enterprise. The HSPAL resident will serve as Chief Pharmacy Resident in their PGY2 year to 10 pharmacy residents and be our representative on the GME advisory board at CCAG.

CONTACT

Interim Pharmacy Residency (PGY-1) Director **Jenna Garlock, PharmD, MBA, BCPS**
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Department of Pharmacy

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Critical Care Residency

PGY 2 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.

Required rotations are Cardiovascular Intensive Care, Medical Intensive Care, Neuroscience Intensive Care, Trauma/Surgical Intensive Care, and Emergency Medicine. Four months are available for elective rotations. Options for these include Infectious Diseases, Nephrology, Nutrition, Opioid Stewardship, and one main campus elective. Residents will have the opportunity to precept pharmacy students and/or PGY1 pharmacy residents, with one month designated as a Preceptorship rotation. An optional teaching certificate is offered by Northeast Ohio Medical University.

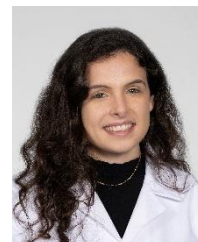
Residents will work every third weekend throughout the year, rounding with the Medical Intensive Care service. Residents will complete an original research project and manuscript. Residents will have the opportunity to present their research at a variety of local, regional, and national professional conferences.

Residents will have longitudinal responsibilities including a process improvement project, residency committee involvement, and patient care committee involvement. The residency program also supports 2 hours of protected didactic time every other week, during which preceptors and residents will present various presentations throughout the year.

CONTACT

Critical Care Residency (PGY-2) Director **Angela Barsa, PharmD, BCCCP**
Cleveland Clinic Akron General
Department of Pharmacy

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Emergency Medicine Residency

The PGY2 Emergency Medicine resident will practice in a 60-bed emergency department that provides care to more than 70,000 patients annually and serves as a Level 1 adult trauma center, thrombectomy-capable stroke center, and PCI-capable chest pain referral center. The PGY2 resident will collaborate with the interdisciplinary team in direct patient care with the goal of providing optimal patient-centered medication therapy. The program consists of six required Emergency Medicine rotations (Team-Based Care, Populations, Critical Illness, Pediatric/Neonatal, Rural/Community, and Advanced Practice) and two required Critical Care rotations (Critical Care I, ED-to-ICU Transitions of Care). The resident may select up to four electives (12 weeks) from Antimicrobial Stewardship/Infectious Diseases, Behavioral Health, Critical Care (medical, surgical, neuroscience, cardiovascular), Hematology/Oncology, Toxicology (at Central Ohio Poison Center), Trauma/Burn (at Metro-Health), and Wilderness Medicine. Pharmacist preceptors are available for all rotations listed.

manuscript, and present at local and regional conferences. Extensive teaching opportunities are incorporated throughout the year, including pharmacy student and resident precepting, continuing education presentations, and didactic lectures through collaboration with the Northeast Ohio Medical University (NEOMED).

Residents are required to staff every third weekend and will work three Cleveland Clinic-recognized holidays. Other longitudinal learning experiences include Leadership/Professional Engagement, Prehospital Practice/Emergency Medical Services, Research, and Teaching/Precepting. To assist with building research skills, the resident may participate in a research curriculum that takes place throughout the year. Additional research resources include: research scientist and statistician, REDCap, and STATA. Optional experience: leadership certificate through Cleveland Clinic Main Campus.

CONTACT

Emergency Medicine Residency (PGY-2) Director **Bethany Crouse, PharmD, BCCCP**
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Ohio Regional - Avon Hospital

CLEVELAND CLINIC AVON HOSPITAL

Cleveland Clinic Avon Hospital opened in November 2016, adjacent to the Richard E. Jacobs Health Center in the Cleveland suburb of Avon. 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 received Level 2 Geriatric Emergency Department Accreditation by The American College of Emergency Physicians in 2021. Avon Hospital has demonstrated a consistent focus on patient safety, receiving a Leapfrog Safety Grade of "A" in addition to Healthgrades Patient Safety Excellence Awards. Avon Hospital has also been awarded the Healthgrades Outstanding Patient Experience Award for several years making it one of only a handful of hospitals to hold both honors simultaneously.

The Department of Pharmacy consists of approximately 34 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 using hospitalist physicians and advanced practice providers. Pharmacists are integral members of the interdisciplinary care team, leveraging collaborative practice agreements focusing on drug therapy optimization, medication reconciliation, and patient education. Post-discharge pharmaceutical services continue at the Richard E. Jacobs Health Center. There, patients can use the prescription bedside delivery service or the outpatient pharmacy. They can follow up for anticoagulant therapy monitoring and chronic disease state management at pharmacist-staffed ambulatory care clinics and receive select parenteral therapy at the outpatient infusion center.

Pharmacy Practice 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 on Doctor of Pharmacy education and outcomes to contribute to the development of clinical pharmacists responsible for medication-related care of patients with a wide range of conditions. Residents will be eligible for board certification and postgraduate year two (PGY2) pharmacy residency training.

Required core experiences are decentralized unit-based pharmacy practice, internal medicine, critical care, infectious diseases, and emergency medicine. The resident will have the opportunity to complete elective experiences in ambulatory care, outpatient hematology/oncology, repeat advanced learning experiences, and others as determined by their needs and interests.

Longitudinally, the resident will have every-other weekend staffing and clinical responsibilities and will develop leadership skills through a practice management experience and hospital committee involvement.

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 an elective teaching certificate facilitated by Northeast Ohio Medical University (NEOMED). 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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Ohio Regional - Euclid Hospital

CLEVELAND CLINIC EUCLID HOSPITAL

Cleveland Clinic Euclid Hospital is a 168-bed acute care community hospital located on 17 acres along Lake Erie's shoreline. Euclid provides emergency services, general and orthopedic surgeries, acute and sub-acute care, as well as a variety of outpatient services. Euclid Hospital is an accredited stroke center and was awarded the 2021 Gold Plus with Target: Stroke Honor Roll from the American Heart Association. Euclid Hospital also has Magnet status, and the emergency department is an accredited Level 3 geriatric center. The Department of Pharmacy supports 24-hour pharmaceutical services and provides decentralized pharmacist services in the Emergency Department, medical, and surgical floors.



Rounding services include Critical Care, Internal Medicine, and Infectious Diseases. Euclid pharmacists precept IPPE and APPE students from regional pharmacy schools. Clinical duties focus on pharmacy consult agreements, patient counseling, medication reconciliation, and drug optimization. Pharmacy consult agreements include pharmacy to dose vancomycin, warfarin, ED culture callbacks, renal dose optimization, and medication route of administration conversion.

Pharmacy Practice Residency

The Euclid Hospital Pharmacy Residency (PGY-1) is a one-year postgraduate training program based in a community hospital practice setting within the Cleveland Clinic Health System. Residents will gain experience in developing patient-specific medication treatments, monitoring plans, and providing education to patients and healthcare professionals. The residency offers required learning experiences in critical care, emergency medicine, internal medicine, infectious disease, ambulatory care, and pharmacy practice management. Residents will select three electives based on the resident's interests and needs or an advanced month of a required learning experience. Pharmacist preceptors are available for all rotations listed.

Residents will complete a research project, manuscript, and present at local and national conferences virtually or in person. To assist with building research skills, the residents will participate in research curriculum that takes place throughout the year.

The program includes teaching/precepting opportunities for pharmacy students and didactic teaching in coordination with NEOMED's teaching certificate.

CONTACT

Pharmacy Residency (PGY-1) Director
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Department of Pharmacy
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email: haulerg@ccf.org



PGY
1

PGY
1

Ohio Regional - Fairview Hospital

CLEVELAND CLINIC FAIRVIEW HOSPITAL

Cleveland Clinic Fairview Hospital is a 488-bed community teaching hospital. Fairview Hospital supports medical residencies in internal medicine, surgery and family practice. It 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. The Department of Pharmacy consists of 113 staff members and provides 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 units, the Emergency Department, and in



outpatient oncology. Rounding services include Internal Medicine, Infectious Disease and Critical Care. Pharmacists are integral members of the interdisciplinary care team and focus on drug therapy optimization, medication reconciliation, and patient education. In addition to PGY1 residents, Fairview pharmacists also precept IPPE and APPE students from local pharmacy schools and support a PGY2 in Emergency Medicine.

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. Residents are also involved with precepting students from 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 an Ohio regional conference (example: Ohio Pharmacy Residency Conference, Ohio College of Clinical Pharmacy meeting).

CONTACT

Pharmacy Residency (PGY-1) Director
Lori Rose, PharmD, BCPS
 Cleveland Clinic Fairview Hospital
 Department of Pharmacy
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Ohio Regional - Fairview Hospital

PGY
2

Emergency Medicine Residency

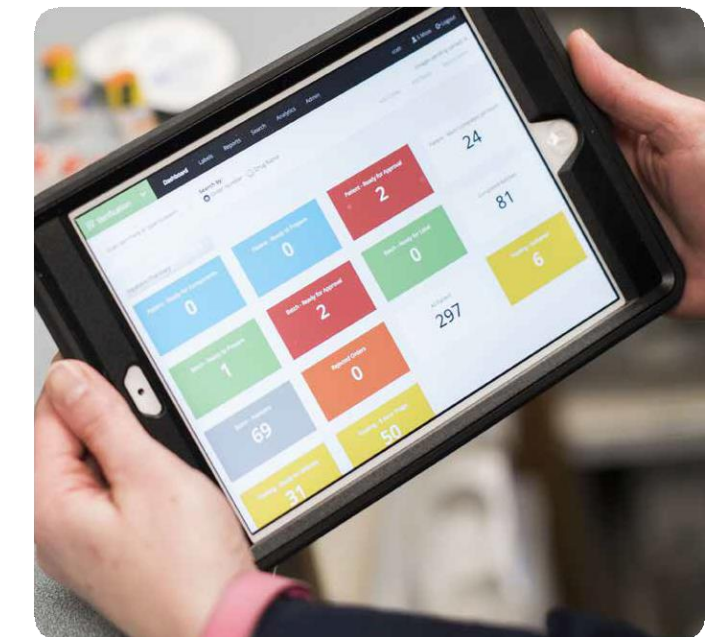
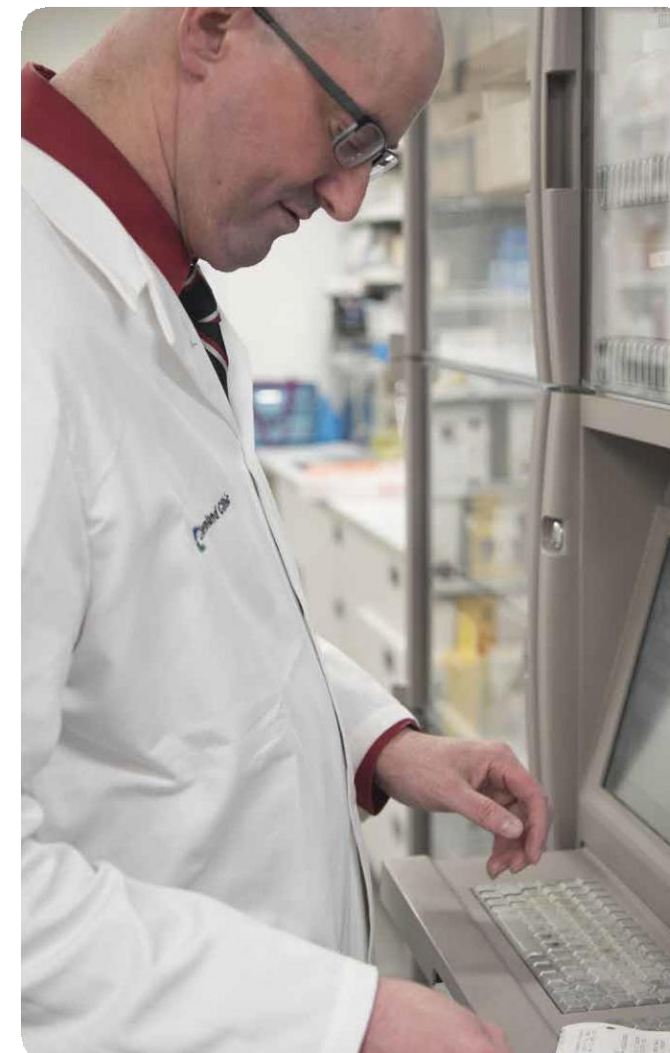
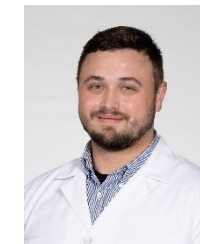
The PGY2 Emergency Medicine resident will practice at Fairview Hospital, focusing in the adult and pediatric emergency departments. Required rotations include: emergency medicine, resuscitation, research, leadership, precepting/presentations, and medical intensive care. Residents will select three elective rotations from the following: surgical intensive care, cardiology, infectious disease, obstetrics/neonatal intensive care, and emergency psychiatry. Pharmacist preceptors are available for all rotations listed.

Residents will participate in the Emergency Department performance improvement committee, Emergency Services Institute pharmacy governance committee, emergency medicine journal club series, and APPE student lecture series. Residents will complete a research project, manuscript, and present research at a selected resident conference.

To assist with building research skills, the residents will participate in a research curriculum that takes place throughout the year.

CONTACT

Emergency Medicine Residency (PGY-2) Director
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 18101 Lorain Ave., Cleveland, Ohio 44111
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Ohio Regional - Hillcrest Hospital

CLEVELAND CLINIC HILLCREST HOSPITAL

Cleveland Clinic Hillcrest Hospital is a 500-bed community acute care hospital, an accredited Stroke Center, Chest Pain Center with PCI, and is a top hospital for cardiac care. Hillcrest earned Magnet Status and the Quality Achievement Award from the American Heart Association. Hillcrest Hospital has several clinical Centers of Excellence, including Birthing Services, Cancer Center, Emergency and Level II Trauma, Heart Center, and Surgery. The Pharmacy Department provides clinical services with clinical specialists in the areas of ambulatory care, cardiology, emergency medicine, hematology/oncology, infectious disease, internal medicine, medical/surgical intensive care, and neonatal medicine. Additional



clinical pharmacy services provided include medication reconciliation; heart failure, acute myocardial infarction, and anticoagulation medication education; and multiple therapy-optimizing consult agreements. Hillcrest Hospital Pharmacy is dedicated to providing optimal and excellent patient care.

PGY 1 Pharmacy Residency

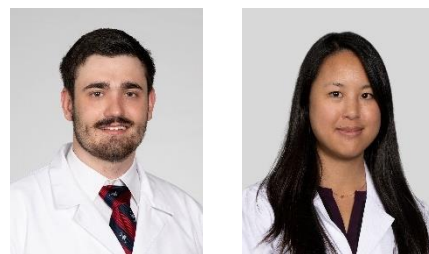
The Pharmacy Residency (PGY-1) is a one-year postgraduate training program that offers clinical experiences in adult intensive care (medical, surgical, cardiovascular, and cardiothoracic), neonatology, infectious disease, internal medicine, oncology, emergency medicine, ambulatory internal medicine, administration, high risk obstetrics, and pharmacy practice. The resident will complete a medication-use evaluation and an original research project, with an associated manuscript written for publication. 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 will use their critical thinking skills through case conferences in addition to daily rounding on patient care teams. Residents will learn various leadership skills through a leadership course and monthly leadership seminars. Residents will gain experiences with teaching and preceptor skills through PharmD student interactions.

Individuals who have successfully completed this program have gone on to specialized residencies, fellowships, hospital practice in an integrated patient care area clinical role or other career opportunities.

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

CONTACT

Pharmacy Residency (PGY-1) Director
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Ohio Regional - Hillcrest Hospital

PGY 2

Ambulatory Care Residency

The PGY-2 Ambulatory Care Residency at Cleveland Clinic Hillcrest Hospital is a specialized one-year program with rotation offerings in multiple ambulatory care clinics, including primary care, cardiology, and oncology. The PGY-2 Ambulatory Care resident will utilize consult agreements to initiate, discontinue and modify medications for disease states delegated by the physician or advanced practice provider. The required rotations are: Primary Care, Cardiology, Transitions of Care, Practice Management, Emergency Department, Oncology, Research, and Continuing Education.

The resident will complete an original research project with an associated manuscript written for publication. This project will be presented at state and national-level pharmacy professional meetings. A formal continuing education program will be presented at a local professional meeting and four continuing education topics will be presented to Family Medicine providers.

Numerous educational and preceptor prospects are available, including precepting PGY-1 pharmacy residents and APPE students.

CONTACT

Ambulatory Care Residency (PGY-2) Director
Sandra Axtell, PharmD, BCPS, BCACP
Cleveland Clinic Hillcrest Family Medicine
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Critical Care Residency

The PGY2 Critical Care Residency at Cleveland Clinic Hillcrest Hospital is a specialized one-year residency program with required rotation offerings in multiple areas of critical care medicine including medical, surgical, neonatal, cardiothoracic, and coronary care intensive care unit settings. Additionally, experiences with adult and pediatric emergency medicine, an infectious disease service, anesthesia, and trauma are available. Additional critical care learning experiences may also be available throughout the Cleveland Clinic Health System, based on hospital and preceptor availability. The preceptors for all rotations are board-certified pharmacists in their area of specialty.

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. Scientific literature evaluations will also be presented by the resident on a regular basis.

CONTACT

Critical Care Residency (PGY-2) Director
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6780 Mayfield Road, Mayfield Heights, Ohio 44124
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PGY 2

Ohio Regional - Marymount Hospital

CLEVELAND CLINIC 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, infectious diseases, 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 2023. 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. Pharmacy Department technology includes 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.

operational and clinical shift, precepting (4-6 week experiences scheduled concurrently with required or elective rotations), and presentations (full residency year, formally evaluated quarterly). Residents are also encouraged to consider participation in longitudinal elective experiences through the Northeast Ohio Medical University Teaching and Learning Curriculum and ASHP Leadership Certificate programs. To help develop research skills, residents also participate in an enterprise-wide research skills workshop throughout the year.

CONTACT
Interim Pharmacy Residency (PGY-1) Director
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Ohio Regional - Medina Hospital

CLEVELAND CLINIC MEDINA HOSPITAL

Medina Hospital has been supporting the community and its patients with expert care for over 75 years as the sole hospital in the county. Initially opened during WWII with a modest 35 beds, Medina Hospital has become a modern, 148-bed acute care facility, featuring the latest technology and procedures. More than 300 physicians are on staff covering more than 30 areas of specialization. In August 2009, the hospital affiliated with Cleveland Clinic, providing residents with local access to world class care. Medina Hospital's centers of excellence include Emergency Department, Orthopedics and Surgery. Medina Hospital is an accredited Primary Stroke Center (Stroke Gold Plus Target: Stroke Elite Plus Honor Roll) and a Level 3 Geriatric Emergency Department.

The Department of Pharmacy consists of approximately 30 staff members who provide services with decentralized



presence in the intensive care unit, emergency department, medical-surgical floors, and the outpatient primary care area. Pharmacist clinical specialists provide rounding services in critical care, infectious diseases, and internal medicine. All pharmacists practice at the top of their license, incorporating innovative, collaborative practice agreements to optimize drug therapy regimens. Our experienced precepting staff help residents meet individual goals, including specialized residencies, clinical positions, and careers in hospital practice.

Pharmacy Residency

The Medina Hospital PGY-1 residency takes place in the unique setting of a progressive community hospital with a supportive and comprehensive learning environment. Residents will help implement and enhance pharmacy services and develop the skills necessary to become integral to the interdisciplinary healthcare team. Required rotations are orientation, pharmacy practice, internal medicine, advanced internal medicine, medication safety/leadership, infectious diseases, critical care, emergency medicine, ambulatory care, and research. Residents will select two elective rotations from the following: advanced internal medicine II, infectious diseases II, critical care II, emergency medicine II, ambulatory care II, or other potential offsite rotations within the Cleveland Clinic system by request and availability.

In addition to clinical activities, residents will complete a research project over the year that will be presented nationally and have publication opportunity.

Residents will staff in the central pharmacy one day per weekend with every third weekend off. Additionally, they will work one four-hour evening shift, per three-week period, and be provided wellness hours. Residents can choose to participate in a teaching certificate program through Northeast Ohio Medical University and/or a leadership certificate program through ASHP. Review our website for more detailed information, meet our preceptors, and see our resident alumni.

CONTACT

Pharmacy Residency (PGY-1) Director
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PGY 1 The PGY1 Pharmacy Residency is a one-year postgraduate training program that provides training in various practice areas. Required rotations (4-6 weeks unless otherwise specified) are: orientation (6-8 weeks), internal medicine I and II, ambulatory care, emergency medicine, infectious disease, critical care, leadership and administration, and psychiatry. Residents also can select up to two elective rotations (4-6 weeks each) from a variety of experiences, such as critical care 2, emergency medicine 2, infectious disease 2, and psychiatry 2. Off-site elective rotations may also be offered based on availability. All required rotations are precepted by pharmacists who serve as members of our residency advisory committee. Residents who successfully complete our program will be prepared for further postgraduate training in a PGY2 residency program or take on roles with both direct patient care and operational focus.

In addition to monthly required and elective rotations, residents will complete longitudinal experiences including a longitudinal project (full residency year), medication use evaluation (six months), drug information project (two months), staffing (every other weekend and two holidays) in both an initial operational shift and later in a hybrid

Ohio Regional - Mercy Hospital

CLEVELAND CLINIC 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 Southeast Ohio. As a Catholic health care organization, the mission at 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



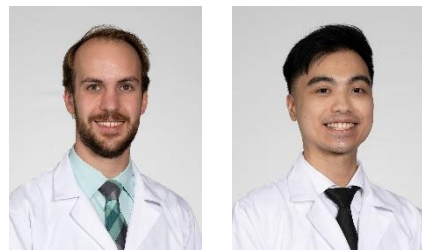
and providing wellness, education, and outreach to the community.

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.

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 contributing 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
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Pharmacy Residency

1 The PGY-1 pharmacy residents will gain experience in a variety of core pharmacy practice areas. Core required experiences include: internal medicine (4 weeks), critical care (4 weeks), emergency medicine (4 weeks), infectious diseases/stewardship (4 weeks), ambulatory care (4 weeks), precepting (4 weeks), orientation (6 weeks), administration (all year starting in August, longitudinal), medication safety (all year starting in August, longitudinal), staffing (all year starting in August, every other weekend [total 22 weekends and 3 holidays], longitudinal), and research (all year, longitudinal). Elective experiences include Oncology, as well as other elective experiences may be developed based on resident interest and preceptor availability.

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 ASHP. Residents are required to staff every other weekend, work three holidays, and participate in an on-call program.

Residents will complete a research project and manuscript and have the opportunity to present at regional and national conferences. To assist with building research skills, the residents will participate in research curriculum that takes place throughout the year.

Ohio Regional - South Pointe Hospital

CLEVELAND CLINIC SOUTH POINTE HOSPITAL

Cleveland Clinic South Pointe Hospital is a 173-bed acute care community teaching hospital located in Warrensville Heights, Ohio. The hospital 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 hospital setting. South Pointe Hospital is accredited by the Joint Commission and is a Certified Stroke Center.

The Department of Pharmacy provides pharmacy services 24 hours per day. Decentralized pharmacy services are established on the medical-surgical floors, in the Intensive Care Unit, in the Emergency Department, and in the Outpatient Oncology Clinic. Pharmacists provide clinical rounding services for critical care,



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

Pharmacy Residency

The PGY-1 Pharmacy residents will practice at Cleveland Clinic South Pointe Hospital. After completing orientation, residents will complete required month-long rotations in Critical Care, Emergency Medicine, Infectious Disease, Internal Medicine Rounding 1 and 2, Internal Medicine Floor Based, and Practice Management. Required longitudinal rotations are Teaching, Pharmacy Practice, and Research. Elective on-site rotations are Cardiology, Critical Care 2, Infectious Disease 2, and Oncology. Other off-site elective opportunities are available based on preceptor availability at other Cleveland Clinic Hospitals in a variety of clinical practice areas.

Residents may complete a maximum of two off-site rotations with a maximum of one of these rotations being at main campus. Residents will complete a research project and manuscript, which will be presented locally and externally. Residents will also complete a medication use evaluation and a drug monograph.

Residents are required to staff 23 weekends during the residency year and will work two Cleveland Clinic-recognized holidays. Residents are required to participate in a teaching certificate program through Northeast Ohio Medical University (NEOMED).

CONTACT

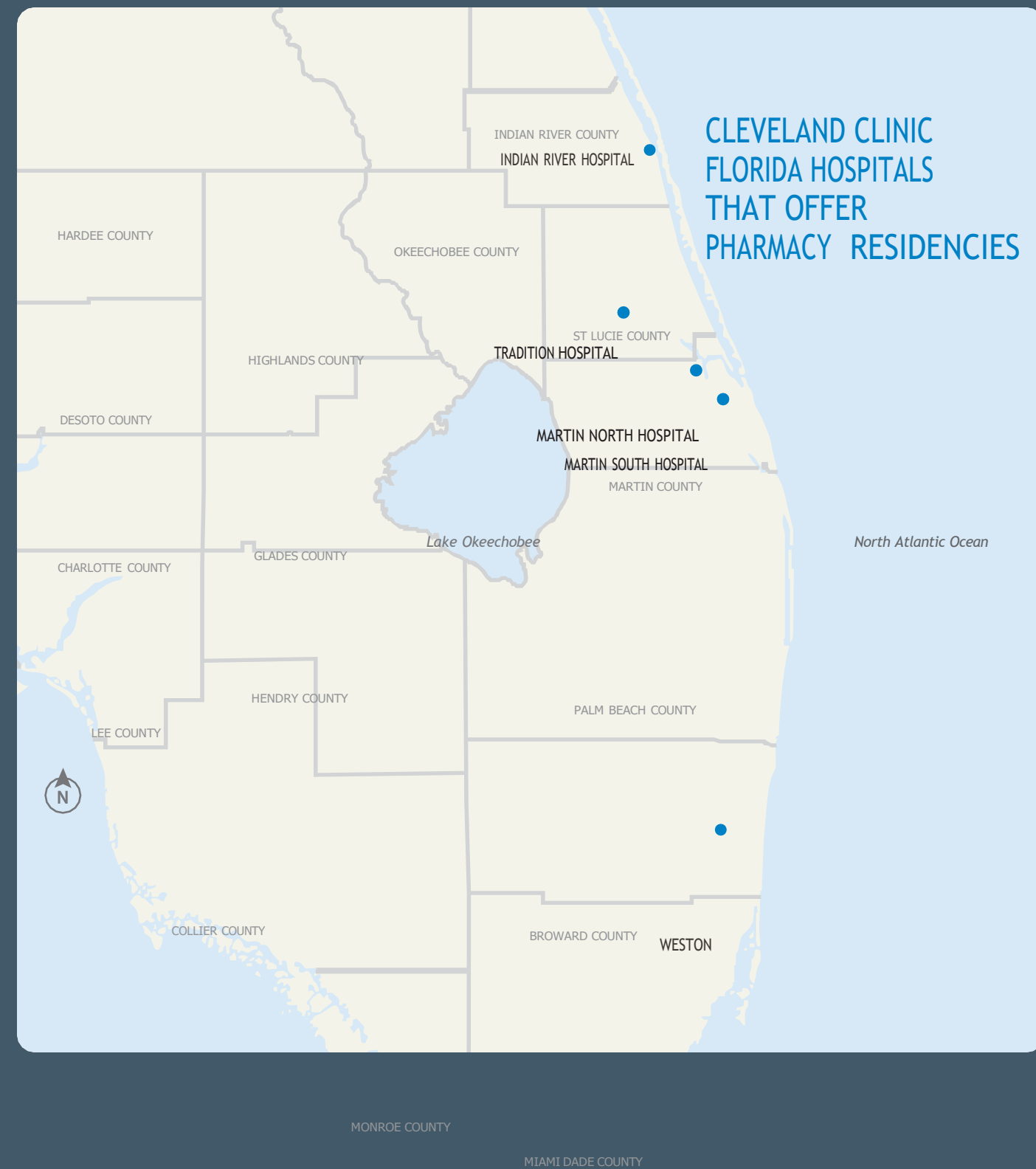
Pharmacy Residency (PGY-1) Director
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PGY
1



Florida Regional Hospitals



Florida Regional - Indian River Hospital

CLEVELAND CLINIC INDIAN RIVER HOSPITAL

Cleveland Clinic Indian River Hospital was 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, 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 32 pharmacists with 16 being board certified in their area of practice. Pharmacists are actively involved within ambulatory care, emergency services, the intensive care unit, antimicrobial stewardship, outpatient cancer center, and decentralized on the general medical floors. Pharmacists also serve as pharmacy student preceptors and provide patient counseling.



There are two PGY-1 Pharmacy Programs at Indian River Hospital. One program (program code 33850) is an accredited program with two positions. Most required and elective learning experiences occur in the inpatient setting. The other program (program code 33938) is an accredited program with one position that meets all requirements of a PGY1 pharmacy program, but most required and elective learning experiences occur in the ambulatory setting. To learn more about these programs, please read the details below. For more information about Cleveland Clinic Indian River Hospital Residency programs, visit <https://ccirh.org/about/careers/pharmacy-residency-program/>

Pharmacy Residency - Ambulatory Setting

The PGY 1 residents (program code 33938) will practice at the Cleveland Clinic Indian River Hospital; including inpatient pharmacy services, hospital-based clinics on the main campus, as well as satellite clinics. Required learning experiences include orientation, internal medicine, infectious disease, ambulatory care orientation, anticoagulation & primary care, endocrine & geriatrics, value-based care, and outpatient cardiology. Residents will select two elective experiences, including one from the inpatient elective list and one from the ambulatory care elective list. Inpatient elective offerings are critical care, inpatient cardiology, emergency medicine, and advanced infectious disease. Ambulatory care electives include hematology/oncology, health-system pharmacy administration, and ambulatory care administration. Other elective learning experiences may be developed based on resident interest and preceptor availability. Pharmacist preceptors are available for all learning experiences listed.

Residents will complete a research project, manuscript, and present at the following venues: ASHP Midyear Clinical

Meeting and The Florida Residency Conference. Residents are required to staff every third weekend and work two Cleveland Clinic-recognized holidays. Other longitudinal learning experiences include research, leadership, and operational pharmacy practice. To assist with building research skills, the residents will participate in the residency research curriculum that takes place throughout the residency year. Optional Experience includes a teaching certificate program.

CONTACT
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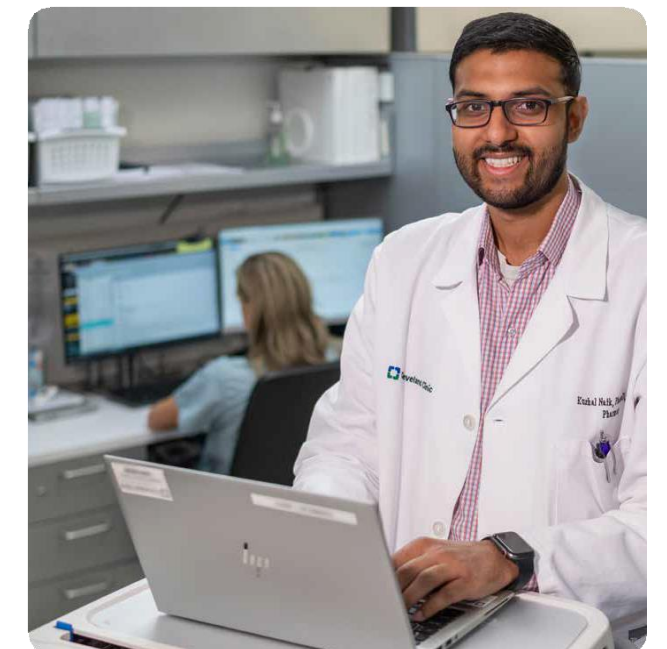
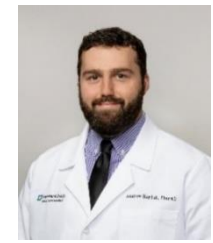
Florida Regional - Indian River Hospital

Pharmacy Residency- Inpatient Setting

The PGY1 residents (program code 33850) will practice in various inpatient pharmacist areas at Cleveland Clinic Indian River Hospital, including intensive care units, the emergency department, cardiology and internal medicine floors, the main pharmacy area for operational services and sterile preparation, ambulatory care clinics specializing in anticoagulation and chronic care management, as well as optional forays into the Scully-Welsh Cancer Center for a hematology/oncology experience. Required learning experiences include orientation, internal medicine, cardiology, critical care, infectious disease, emergency medicine, and ambulatory care. Residents will select two elective experiences from the following list: advanced emergency medicine, advanced infectious disease, advanced ambulatory care, hematology/oncology, and health-system pharmacy administration (HSPAL). Other elective learning experiences may be developed based on resident interest and preceptor availability. Pharmacist preceptors are available for all learning experiences listed. Residents will complete a research project, manuscript, and present at the following venues: ASHP Midyear Clinical Meeting and The Florida Residency Conference.

Residents will complete a research project, manuscript, and present at the following venues: ASHP Midyear Clinical Meeting and The Florida Residency Conference. Residents are required to staff every third weekend. Residents are also required to work two Cleveland Clinic-recognized holidays. Other longitudinal learning experiences include research, leadership, and operational pharmacy practice. To assist with building research skills, the residents will participate in the residency research curriculum that takes place throughout the residency year. Optional Experience: teaching certificate program.

CONTACT
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Florida Regional - Martin Health

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 three 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 Comprehensive and Primary Stroke Center for more than 10 years and has achieved national recognition as an Orthopedic 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.

Cleveland Clinic Martin Health- North Hospital

Pharmacy Residency

The PGY1 residents will practice at Cleveland Clinic Martin North Hospital. The Department of Pharmacy provides comprehensive pharmacotherapeutic services throughout the health system using a decentralized staffing model. Required rotations are internal medicine, critical care, antimicrobial stewardship, emergency medicine, administration, and research. Residents will select five elective rotations from the following:

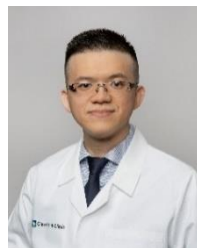
PGY 1
pediatrics, nephrology, inpatient oncology, outpatient oncology, infectious disease, orthopedics, medication safety, academia, internal medicine II, critical care II, and emergency medicine II.

Residents will complete a research project and manuscript, and present at the ASHP Midyear Clinical Meeting and Florida Residency Conference. Residents are required to staff one evening weekly, one weekend every three weeks and work two Cleveland Clinic-recognized

holidays. Other longitudinal learning experiences include ACLS and BLS certification, medication use evaluations, student precepting, and participation in pharmacy committees. To assist with building research skills, the residents will participate in research curriculum that takes place throughout the year. Formal teaching certificates are available for interested residents.

CONTACT

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Cleveland Clinic Martin Health- South Hospital

Pharmacy Residency

The PGY1 resident will practice at Cleveland Clinic Martin South Hospital. The Department of Pharmacy provides comprehensive pharmacotherapeutic services throughout the health system using a decentralized staffing model. Required rotations are internal medicine I and II, critical care, emergency medicine, administration, and research. The resident may select up to five elective rotations from the following: infectious disease, orthopedic medicine, medication safety, pediatric medicine, inpatient oncology, outpatient oncology, academia, administration II, emergency medicine II, and critical care II.

The resident will complete a research project and manuscript, and present at the ASHP Midyear Clinical Meeting and Florida Residency Conference. The resident is required to staff a minimum of two evening shifts a month, one weekend every three weeks, and two

Cleveland Clinic Martin Health- Tradition Hospital

Pharmacy Residency

The PGY1 residents will practice at Cleveland Clinic Tradition Hospital. The Department of Pharmacy provides comprehensive pharmacotherapeutic services throughout the health system using a decentralized staffing model.

Required rotations are internal medicine, critical care, emergency medicine, antimicrobial stewardship, administration, presentations/teaching, service, leadership, and research. Residents will also choose five electives from the following: infectious diseases, pediatric medicine, inpatient hematology/oncology, outpatient hematology/oncology, nephrology, critical care II, emergency medicine II, and emergency medicine III. Residents will complete a research project, manuscript, and present at the ASHP Midyear Clinical Meeting and Florida Residency Conference. Residents are required to staff one evening weekly, one weekend every three weeks, and work two Cleveland Clinic-recognized

Florida Regional - Martin Health

Cleveland Clinic-recognized holidays. Other longitudinal experiences include medication use evaluations, student precepting, and participation in pharmacy committees. To assist with building research skills, the resident will participate in Cleveland Clinic residency research curriculum throughout the year. Formal teaching and leadership certificates are also available.

CONTACT

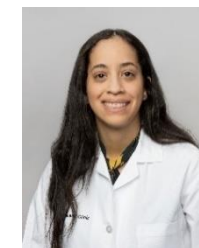
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holidays. Other longitudinal learning experiences include ACLS certification, medication use evaluations, student precepting, and participation in pharmacy committees. To assist with building research skills, the residents will participate in a research curriculum that takes place throughout the year. Formal teaching certificates are available for interested residents.

CONTACT

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Florida Regional - Weston Hospital

CLEVELAND CLINIC WESTON

Cleveland Clinic Weston, located in Weston, Florida, is a 256 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.



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.

PGY 1 Pharmacy Residency

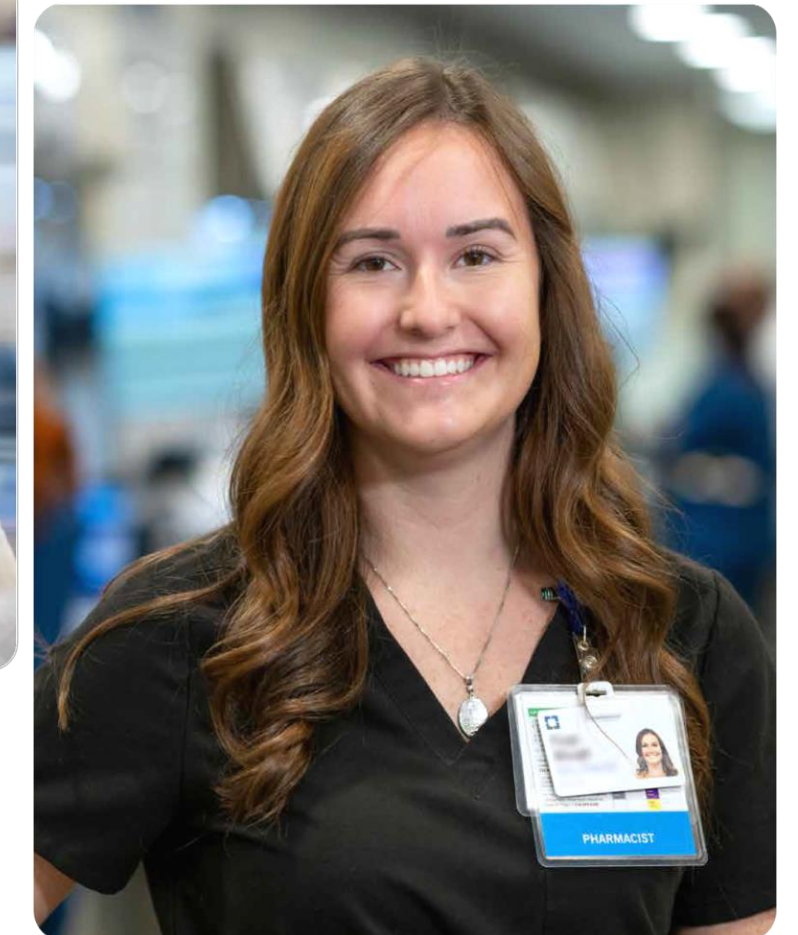
The Cleveland Clinic Weston Pharmacy Residency PGY 1 is a one-year post graduate program located in Weston, Florida. The residents required rotations are: orientation, internal medicine, infectious disease, ambulatory care, transplant 1 (abdominal transplant), transplant II (heart transplant/HF), medical ICU, surgical ICU, health system pharmacy leadership/management, emergency medicine, and oncology. Pharmacist preceptors are available for all rotations listed.

Residents will complete a research project and manuscript and present internal and external venues. Residents are required to staff every third weekend and one night a week 4-9 p.m. and work every third weekend. Residents will also be required to work two Cleveland Clinic-recognized holidays. Other longitudinal learning experiences include practice coverage, drug information, policy development and various opportunities to precept pharmacy students, and present at medical grand rounds. To assist with building research skills, the residents will participate in research

curriculum that takes place throughout the year. Additional required longitudinal experience includes a teaching certificate program through NOVA Southeastern University College of Pharmacy.

CONTACT

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Application Requirements

PGY1 Programs:

Interested applicants must be enrolled or PharmD graduates of an 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 (letter of intent, CV, three standard reference forms in PhORCAS, official college transcripts), with the following:

1. 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 three reference writers should use the standard PhORCAS template to submit their candidate recommendation.

PGY2 Programs:

Interested applicants must be PharmD graduates of an accredited college of pharmacy, be eligible for licensure in the State of Ohio (or Florida if applicable), must be graduates or enrolled in an ASHP-accredited or ASHP-candidate status PGY-1 Pharmacy Residency Program and submit the standard application materials through PhORCAS (letter of intent, CV, three standard reference forms in PhORCAS, official college transcripts), along with:

1. 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.

Pharmacy Online Residency Centralized Application Service (PhORCAS)

Please submit all application materials via Pharmacy Online Residency Centralized Application Service (PhORCAS). **Deadline for receipt of these materials to be considered for an interview is January 3, 2025 by 11:59 PM.** For the PGY-2 residency programs (Ambulatory Care, Cardiology, Critical Care, Emergency Medicine, Infectious Diseases, Informatics, Internal Medicine, Medication-Use Safety and Policy, Neurology, Oncology, Pediatrics, Pharmacogenomics, and Solid Organ Transplant), the candidate must have completed or be enrolled in a PGY-1 program that is ASHP-accredited or in ASHP-candidate status. Upon enrollment, the resident must provide a copy of their PGY-1 certificate within 30 days of their start date.

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 be authorized for employment in the United States at the time they apply for the residency. Cleveland Clinic Pharmacy does not sponsor applicants for work visas.
 2. Unfortunately, we cannot accommodate Optional Practical Training visas for the Cleveland Clinic Pharmacy Residency program as the program extends beyond 12 months. Trade NAFTA visas are acceptable, however the candidate is responsible for the application process and all necessary fees. Cleveland Clinic cannot extend the candidate an employment letter until the candidate has matched with the Cleveland Clinic program and signed an acceptance letter. Any employment letter will state the length of the program (12 months if PGY1 or PGY2, 24 months if HSPAL or Pharmacotherapy).
 3. Graduates of international pharmacy schools will be considered if they meet the ASHP criteria for application to residency. To be eligible for pharmacist licensure, candidates must be graduates or candidates for graduation from an ACPE accredited degree program (or one in the process of pursuing accreditation) or have a Foreign Pharmacy Graduate Examination Committee (FPGEC) certificate from the NABP.
 4. Appointments of applicants to residency positions are 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 nicotine, and attendance of an on boarding appointment on site in Ohio (for Ohio programs) or Florida (for Florida Programs), or as otherwise directed by Occupational health at least 2 weeks prior to the start date].

American Society of Hospital Pharmacists



ASHP PURPOSE STATEMENTS:

PGY1 PURPOSE: PGY1 residency programs build upon Doctor of Pharmacy (PharmD) education and outcomes to develop pharmacist practitioners with knowledge, skills, and abilities as defined in the educational competency areas, goals, and objectives. Residents who successfully complete PGY1 residency programs will be skilled in diverse patient care, practice management, leadership, and education, and be prepared to provide patient care, seek board certification in pharmacotherapy (i.e., BCPS), and pursue advanced education and training opportunities including postgraduate year two (PGY2) residencies.

PGY2 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.



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