

Pharmacy Residency Programs

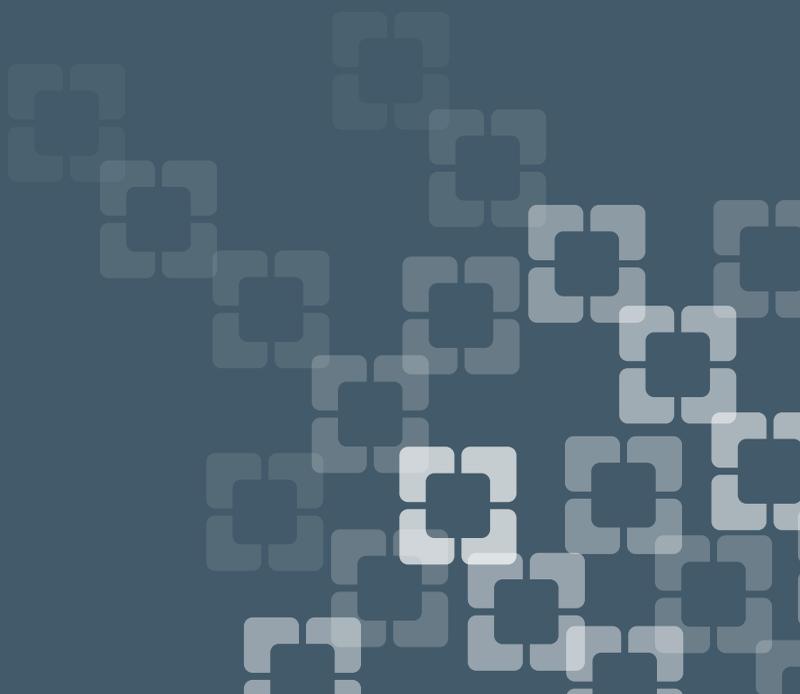


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Postgraduate Training Programs

Cleveland Clinic is comprised of a 1,400-bed academic medical center, ten Community Hospitals in Northeast Ohio and Cleveland Clinic Florida in Weston. In total, there are more than 4,800 inpatient beds and 1,200 pharmacy employees, more than 300 physician practices, 20 ambulatory pharmacies, significant inpatient and outpatient clinical services and a pharmacy budget exceeding \$1 billion.

At the Main Campus, we offer 14 distinct PGY-1 and PGY-2 pharmacy residency programs, and at our Community Hospitals and Cleveland Clinic Florida, we offer nine PGY-1 programs, one PGY-1/2 Health-System Pharmacy Administration program, two PGY-2 Critical Care programs, one PGY-2 Emergency Medicine, and one PGY-2 Psychiatry program.



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ASHP PURPOSE STATEMENTS:

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

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

Cleveland Clinic Main Campus

Cleveland Clinic has been named the No. 2 hospital in the United States by *U.S. News & World Report*. This is the 20th consecutive year that Cleveland Clinic has been among the Top 5 hospitals and the third straight year we have achieved the No. 2 ranking. The 2018-2019 “Best Hospitals” rankings also named Cleveland Clinic the No. 1 heart hospital in the country for the 24th consecutive year. State-wide and regionally, Cleveland Clinic ranked No. 1 in Ohio and the Cleveland area.

Cleveland Clinic is nationally ranked in 14 specialties, including 10 in the Top 5 nationwide.

The rankings are:

- Cancer No. 5
- Cardiology & Heart Surgery No. 1
- Diabetes & Endocrinology No. 4
- Ear, Nose & Throat No. 11
- Gastroenterology & GI Surgery No. 2
- Geriatrics No. 5
- Gynecology No. 5
 - Nephrology No. 2
- Neurology & Neurosurgery No. 4
- Ophthalmology No. 9
- Orthopedics No. 3
- Pulmonology No. 3
- Rheumatology No. 2
- Urology No. 1

In June, U.S. News released rankings for children’s hospitals. Cleveland Clinic Children’s received rankings in all 10 pediatric specialties. In addition, Cleveland Clinic Children’s ranked highest in Northeast Ohio in Cardiology & Heart Surgery, Gastroenterology and Neurology & Neurosurgery.

Residency Overview

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

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

For more information about the residency programs at Cleveland Clinic Main Campus, visit <http://my.clevelandclinic.org/pharmacy/education/pharmacyresidency.aspx>.



Pharmacy Residency (PGY-1)

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

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

Required rotations include acute care, critical care, drug information, medication safety, and practice management. Residents are able to individualize their residency through elective rotations such as infectious diseases, cardiology, oncology, transplant, and ambulatory care. Additional activities include presentations at education conferences, completion of a research project, participation in hospital committees and pharmacy student education. Inpatient staffing is required every other weekend throughout the year. Residents also participate in an on-call program.

CONTACT

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Pharmacy Residency (PGY-1) at Cleveland Clinic Children's Hospital

The Pharmacy Residency (PGY-1) at Cleveland Clinic Children's Hospital is a one-year training program designed to provide the resident with experiences leading to knowledge and practice skills in pharmacotherapeutic care for pediatric patients.

The program exposes the resident to a variety of practice areas in the pediatric acute care environment to progressively build their knowledge base, skill set and confidence in problem solving and clinical judgment. Required rotations include general pediatrics, pediatric ICU, pediatric infectious diseases, neonatal ICU, pediatric oncology, drug information/medication safety, and practice management. Residents are able to individualize their residency through elective rotations. Nutrition support, medication safety, and pharmacokinetics are integrated throughout the year. The resident will also be involved in administrative and formulary management by

participation in the Pediatric and Neonatal Pharmacy and Therapeutics Committees.

Educational opportunities are available and include precepting pharmacy students and lecturing. Presentation skills are developed through journal clubs and patient cases. A formal seminar and manuscript are required. Project management and research skills are enhanced through drug use management projects. Staffing is in the pediatric pharmacy satellite.

CONTACT

Pharmacy Residency (PGY-1) Director
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Community Pharmacy Residency (PGY-1)

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

This program builds on Doctor of Pharmacy (PharmD) education and outcomes to contribute to the development of clinical pharmacists responsible for medication-related care of patients with a wide range of conditions, eligible for board certification, and eligible for post-graduate year two (PGY2) pharmacy residency training. The program offers advanced training in optimizing the care of diverse patient populations as they transition from a health system setting. Graduates of the program are prepared to provide advanced patient care services in the community pharmacy with independent, chain, and integrated health systems pharmacies. Completion of the teaching certificate program through Northeast Ohio Medical University (NEOMED) qualifies the residency

graduate for assistant or clinical professorship through joint faculty with a college of pharmacy. Community pharmacy staffing is required throughout the year, including a weekend rotation. In addition to presentations and projects, residents are required to complete a large project and submit a manuscript for publication.

Required residency learning experiences include community pharmacy, anticoagulation, primary care, medication therapy management, ambulatory leadership, managed care/employee health plan, and drug information, specialty pharmacy, transitional care management, and HIV ambulatory care clinic.

CONTACT

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Health-System Pharmacy Administration Residency/MS

The Health-System Pharmacy Administration Residency (PGY-1 and PGY-2) and master's degree is a specialized two-year program with the primary objective of developing pharmacy leaders who are trained and prepared to immediately assume managerial positions within large, integrated healthcare delivery systems, leading to Director of Pharmacy positions. The master's degree is in conjunction with Northeast Ohio Medical University (NEOMED).

Residents experience training, mentoring and modeling in pharmacy administration and leadership. Residents spend time in central pharmacy and pharmacy satellites, sterile products, operating suites, emergency department, ambulatory, specialty pharmacy, and decentralized clinical services to gain experience with front-line supervision. Residents learn the safe, appropriate and cost-effective use

of medication in patient care. The residents gain knowledge to understand, analyze and manage the changing nature of today's complex medical delivery systems and leadership skills necessary for change management and managing the pharmacy enterprise. Required activities include presentations, coursework, projects, a manuscript, and staffing and management on-call responsibilities.

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Pharmacotherapy Residency

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

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

rotations and a longitudinal ambulatory care component are offered to build and enhance competencies acquired during the resident's first year.

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

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Pharmacotherapy Residency Director

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Ambulatory Care Residency

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

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

physician. Required longitudinal rotations include: primary care, anticoagulation, pharmacy administration. Required specialty rotations include: diabetes, HIV, and heart failure. Residents will select 3 elective rotations from the following list: geriatrics, pain management, oncology, transplant, rheumatology, diabetes 2, emergency medicine, managed care, specialty pharmacy, and pharmacy administration 2. In addition to completing a research project and drug use evaluation, the resident will present at resident conference, ambulatory care monthly, leadership journal club, and the internal medicine residency lecture series.

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Cardiology Residency

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

For the 23rd consecutive year, Cleveland Clinic's heart program has ranked as the best in the nation, earning the No. 1 ranking in *U.S. News & World Report's* "2017-2018 Best Hospitals."

The Cardiology Residency program offers a variety of opportunities that allow the resident to develop the clinical skills necessary for acute care cardiology, cardiovascular critical care, and to optimize patient care outcomes. Areas of focus include clinical cardiology, coronary ICU, heart failure/heart transplant, cardiothoracic surgery intensive care unit, and ambulatory cardiovascular care. The resident can

choose from a number of elective rotations to build and enhance competencies. The residency fosters development of an independent practitioner with the ability to thrive in a variety of practice settings. In addition to completing a research project and drug use evaluation, the resident will hone their skills through clinical staffing and presenting in pharmacy education conference and other settings, as well as participation in hospital committees.

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Critical Care Residency

The Critical Care Residency (PGY-2) is a one-year training program designed to develop an expert-level practitioner with the necessary knowledge, skills, and abilities to thrive as a critical care clinical specialist, clinical faculty member, or to pursue fellowship training in critical care.

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

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

CONTACT

Critical Care Residency Director

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Drug Information Residency

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

The program's goal is to develop expert, advanced, and skilled pharmacy practitioners who are proficient in drug information practice in a hospital health-system based setting. Required rotations include drug information practice and administration, formulary management and implementation, medication safety, and informatics. The resident will be involved with adverse drug reaction reporting and monitoring, drug shortage and recall management, and newsletter development and editing. The resident will attend and

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

CONTACT

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Emergency Medicine Residency

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

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

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

CONTACT

Emergency Medicine Residency Director

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Infectious Diseases Residency

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

The program is designed to develop skilled clinical pharmacists to practice as infectious diseases specialists in academic or community hospitals, clinical faculty members or pursue fellowship training. Required rotations consist of infectious diseases (ID) general consult service, endocarditis consult service, bone and joint infection consult service, ID outpatient clinic (including HIV), pediatric ID consults, solid organ transplant ID consults, oncology ID consults, and microbiology. The resident can choose from a number of elective rotations to build and enhance competencies.

The resident is involved longitudinally in antimicrobial stewardship and antimicrobial formulary management. Additional experiences for the resident include a research project, drug use evaluation, and participation in pharmacy education conferences as well as the Department of Infectious Diseases case conference, grand rounds, and HIV conference.

CONTACT

Infectious Diseases Residency Director

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Pharmacy Informatics Residency

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

The program offers a wide variety of projects involving implementation or optimization of features in an electronic health record used by a multi-hospital health-system. Additionally, with many different types of automation in place across the health-system, opportunities are available for experience with automated dispensing systems, automated carousels, pharmacy robotics, and pharmacy workflow management systems. Required rotations will include informatics theory, clinical decision support, reporting and analytics, orders management, automation

technology, informatics management, as well as a longitudinal project. The resident will participate in several multidisciplinary committees to observe and contribute to the decision making and change management processes currently in place at Cleveland Clinic. The resident will also have the opportunity to participate in journal club and pharmacy education conferences.

CONTACT

Pharmacy Informatics Residency Director

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Oncology Residency

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

The resident's expertise, knowledge and skills in oncology therapeutics will allow them to contribute to an interdisciplinary healthcare team offering patient-specific therapeutic interventions to treat, cure, rehabilitate, and alleviate medical conditions and diseases unique to cancer patients. The program also enhances proficiency in clinical research and strengthens communication skills. Required rotations include solid tumor oncology, leukemia, blood and marrow transplantation, pediatric oncology, management/investigational drug services, outpatient

oncology, and inpatient lymphoma/myeloma. The resident can choose from a number of elective rotations to build and enhance competencies. The resident participates in pharmacy education conference, weekly oncology disease state and therapeutics discussions, student lectures and discussions, conducts a research project, conducts a drug use evaluation, and presents one seminar.

CONTACT

Oncology Residency Director

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Solid Organ Transplant Residency

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

The Solid Organ Transplant residency provides residents with opportunities to function independently as practitioners by conceptualizing and integrating accumulated experience and knowledge and incorporating both into the provision of patient care or other advanced practice settings. Residents who successfully complete an accredited PGY2 Solid Organ Transplant pharmacy residency are prepared for advanced patient care, academic, or other specialized positions.

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

CONTACT

Solid Organ Transplant Residency Director

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Cleveland Clinic Florida

Cleveland Clinic Florida, located in Weston, is a not-for-profit, multi-specialty, academic medical center that integrates clinical and hospital care with research and education. Cleveland Clinic Florida has 240 physicians with expertise in 35 specialties. The medical campus is fully integrated and includes diagnostic centers, outpatient surgery and a 24-hour emergency department located in the state-of-the-art hospital. Cleveland Clinic Florida ranked NO. 1 in the Miami-Fort Lauderdale metro area and No. 4 in Florida in the 2018-2019 “Best Hospitals” rankings by *U.S. News & World Report*. Cleveland Clinic Florida is an integral part of the Cleveland Clinic Health System, where providing outstanding patient care is based upon the principles of cooperation, compassion and innovation.



Pharmacy Residency (PGY-1)

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

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

Required rotations include orientation, internal medicine, critical care, infectious disease, ambulatory care, nutrition

support, anticoagulation, transplant, health system pharmacy leadership/management, and oncology. Elective opportunities exist in nephrology, cardiology, neurology, and emergency room. Additionally, residents will have experiences in drug information, research, policy development and education throughout the year. Residents attend the ASHP Midyear Clinical Meeting and Florida Residency Conference.

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

CONTACT

Pharmacy Residency (PGY-1) Director

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Cleveland Clinic Akron General

Cleveland Clinic Akron General is a 532-bed adult, tertiary care, Level I Trauma center that has been serving the healthcare and wellness needs of Akron and the surrounding communities for over 100 years. Additionally, Cleveland Clinic Akron General has regional referral centers in Cardiology, Cancer, and Orthopedics. As a major teaching hospital, Cleveland Clinic Akron General trains future physicians and pharmacists through 14 high-quality medical and pharmacy residency programs. Cleveland Clinic Akron General was nationally ranked in one adult specialty and identified as one of the 2018-2019 “Best Hospitals” in Ohio by *U.S. News & World Report*.

The Department of Pharmacy at Cleveland Clinic Akron General employs more than 80 pharmacists, residents, pharmacy interns, technicians, and other support personnel whose primary goal is to provide excellent patient care. The pharmacy provides services at Cleveland Clinic Akron General, the McDowell Cancer Center, the Visiting Nurse Services Hospice Care Center, an Ambulatory Care Center, Lodi Community Hospital, and three free standing emergency departments and four infusion centers. Patient care areas at Cleveland Clinic Akron General are served by a central pharmacy and operating room. Distributive services are supported by Swisslog PillPick[®] and BoxPicker[®] automated packing, storage, and dispensing systems.

The pharmacy provides clinical services with clinical specialists in the areas of internal medicine, family practice, endocrinology, pain management, palliative care, surgical intensive care, medical intensive care, neurologic intensive care, cardiovascular intensive care, infectious diseases, emergency medicine, psychiatric medicine, hematology/oncology, and quality improvement. Clinical services are also provided through a High-risk Patient - Clinical Generalist model, transitions of care, and diabetes needs assessments. Additionally, the pharmacy is very involved in teaching serving as an Advanced and Introductory Pharmacy Practice Experience training site for several colleges of pharmacy.



Pharmacy Residency (PGY-1)

The Pharmacy Residency (PGY-1) is a one-year postgraduate training program that provides training in a variety of areas of pharmacy practice. Emphasis is placed on the development of clinical skills through direct interaction with patients, physicians, nurses, and other healthcare providers. Graduates will be prepared for a successful career in multiple adult acute care settings, ambulatory care, or further training in a PGY-2 residency program. Pharmacists completing this residency will be competent and confident practitioners of direct patient care in multiple environments, equipped to meet the challenges of current and future pharmacy practice. Residents will be accountable for achieving optimal drug therapy outcomes as members of the health care team. These pharmacists will exercise skill in educating other health care professionals, students, patients, and the community on drug-related topics. Residents will demonstrate a high level of professionalism by following a personal philosophy of independent practice, monitoring their own performance, and will contribute to the profession.

Residents will gain experience in a variety of core practice areas including: internal medicine, pain management, family practice, critical care, infectious diseases, anticoagulation clinic, diabetes clinic, quality improvement/medication safety, drug information/ investigational drug use, pharmacy practice management, transitions of care, and research. Elective experiential opportunities include: neurologic intensive care, cardio-vascular intensive care, surgical intensive care, medical intensive care, emergency medicine, endocrinology, psychiatric medicine, and hematology/oncology. Residents will gain experience teaching by serving as the primary preceptor for at least one pharmacy student and completing the teaching certificate program offered by Northeast Ohio Medical University (NEOMED).

Residents will also provide continuing education programs for the pharmacy staff, lead at least one Morbidity and Mortality conference, and provide community service by delivering medication education sessions to cardiac rehabilitation patients. Residents will work 22 weekends throughout the year which includes rotating between staffing and the High-risk Patient - Clinical Generalist model. Additionally, the resident will develop and complete an original research project. The project will be presented at a variety of local, regional, and national professional conferences, including ASHP Midyear Clinical Meeting and the Great Lakes Pharmacy Residency Conference, and a manuscript of publishable quality will be prepared.

CONTACT

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Critical Care Residency (PGY-2)

The Critical Care Residency (PGY-2) at Akron General is a one-year training program conducted in a variety of settings designed to develop an expert-level critical care practitioner with the necessary knowledge, skills, and abilities to be equipped to face current and future challenges in critical care pharmacy practice. The primary practice areas include the medical, surgical, cardiac, and neuroscience intensive care units, and emergency department. Additional opportunities include rotations in endocrinology, infectious disease, pain management, and palliative care. The Critical Care Residency offers preceptor training with the Critical Care Resident having the opportunity to precept both pharmacy students and PGY-1 Pharmacy Practice Residents. Elective didactic teaching opportunities are available with Northeastern Ohio

Medical University (NEOMED). A teaching certificate is available with NEOMED if the resident had not acquired one from their PGY-1 residency. The Critical Care Resident will also complete an original research project. The resident will present the research at a variety of local, regional, and national professional conferences and prepare a manuscript of publishable quality.

CONTACT

Critical Care (PGY-2) Director

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Health-System Pharmacy Administration Residency/MS (PGY-1/2)

Upon completion of the 24-month combined Pharmacy Residency Program in Health-System Pharmacy Administration (HSPA) with a Master of Science Degree at Cleveland Clinic Akron General the resident will possess clinical competence in administrative, financial, medication safety, and leadership skills related to health-system administration enabling them to manage complex health-system pharmacy departments. The didactic Master level classes will be completed through Northeastern Ohio Medical University (NEOMED) and Kent State University. The majority of Master level classes are taught by current, or former, health care leaders assuring the resident will be able to apply the knowledge acquired in the classroom to real life situations. Residents completing the HSPA residency at Akron General will be trained to begin their careers in a wide variety of managerial positions.

During the first 12-months of the HSPA residency, the resident will complete all the same requirements as the Pharmacy Residency (PGY-1) residents allowing

the resident to gain a solid clinical foundation. The second 12-months of the HSPA residency the resident will become a member of the Pharmacy Management team gaining skills in pharmacy leadership, medication safety, clinical operations, operations, procurement and support services, and technology operations. The HSPA resident will also have required rotations in the Cleveland Clinic Health System (CCHS). The HSPA resident will also serve as the Chief Pharmacy Resident in the second year of the residency. Additionally, the HSPA resident will complete the leadership certificate program through the CCHS pharmacy enterprise during their first year.

CONTACT

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Avon Hospital

Avon Hospital opened in November 2016, adjacent to the Richard E. Jacobs Health Center in the western-Cleveland suburb of Avon, Ohio. This 126-bed community hospital is the first Cleveland Clinic regional hospital designed and built to accommodate future advances in medical care. Avon Hospital provides a variety of services to the community including emergency medicine, general and orthopedic surgery, and acute care. A unique healthcare delivery model allows for around-the-clock bedside coverage utilizing hospitalist physicians and NP/PA providers. The Department of Pharmacy consists of approximately 25 dedicated staff members, and provides 24-hour pharmaceutical services from the inpatient pharmacy with decentralized pharmacist coverage in the emergency department, rapid observation unit, intensive care unit, and general medical and surgical floors. Pharmacists are integral members of the interdisciplinary care team and focus on drug therapy optimization, medication reconciliation, and patient education. Pharmaceutical services continue after hospital discharge at the Richard E. Jacobs Health Center where patients can fill prescriptions through the outpatient pharmacy, follow-up for anticoagulant therapy monitoring at a pharmacist-staffed clinic, and receive parenteral medications through 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 upon the knowledge and skills gained from a Doctor of Pharmacy education, focusing on the development of a pharmacist practitioner capable of managing medication-related care for patients with a variety of acute and chronic disease states. Core experiences include central and decentralized pharmacy practice, internal medicine, critical care, infectious diseases, and emergency medicine, as well as every other weekend staffing and clinical responsibilities. The resident will develop leadership skills through a practice management experience and hospital committee involvement. The resident will have the opportunity to complete elective experiences based on their needs

and interests. The resident will be involved in educational activities, including presentations to pharmacy staff, provider and nursing in-services, co-precepting pharmacy students, and completion of a teaching certificate through Northeast Ohio Medical University. Research experience will be gained through completion of a major research project, and the resident will attend and present research at the ASHP Midyear Clinical Meeting and regional residency conferences.

CONTACT

Pharmacy Residency (PGY-1) Director

Ellen Immler, PharmD, BCCCP

Avon Hospital, Department of Pharmacy

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Euclid Hospital

Euclid Hospital is home to one of the region's leading orthopedic surgery centers. The hospital is licensed for 215 beds and has an average daily census of 130 patients. Euclid serves the local community providing emergency services, general and orthopedic surgeries, acute and sub-acute care, as well as a variety of outpatient services. The Department of Pharmacy supports 24-hour pharmaceutical services and also offers bedside delivery of patient discharge medications. Decentralized pharmacists provide pharmaceutical services in the emergency department, intensive care unit, as well as medical and surgical floors. Clinical duties focus on medication reconciliation, patient counseling and drug optimization; pharmacists also collaborate with prescribers in shared medical appointments for patients with COPD, CHF, and CKD.



PGY
1

Euclid Hospital

Pharmacy Residency (PGY1)

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

Hospital residency program also includes teaching/precepting opportunities for pharmacy students and optional didactic teaching in coordination with NEOMED's teaching certificate. The resident will also be responsible for completing a longitudinal research project and drug use evaluation and will attend the ASHP Midyear Clinical Meeting and regional research residency conference.

CONTACT

PGY-1 Pharmacy Residency Director
Julia Glowczewski, PharmD, BCPS

Euclid Hospital, Department of Pharmacy
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Fairview Hospital

Fairview Hospital is a 517-bed community teaching hospital. Fairview Hospital supports medical residencies in internal medicine, surgery and family practice. Fairview Hospital has a number of clinical Centers of Excellence, including the Birthing Center, Cancer Center, Heart Center, Emergency and Level II Trauma and Surgery. Fairview Hospital was nationally ranked in multiple adult specialties and identified nationally as one of the 2018-2019 “Best Hospitals” by *U.S. News & World Report*.

The Department of Pharmacy consists of approximately 75 dedicated total staff and provides 24-hour services. An electronic medical record/CPOE supports the pharmacy services. The department utilizes decentralized automation cabinets as its main distribution system.



Pharmacy Residency (PGY-1)

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

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

Required longitudinal rotations are family medicine clinic, research project, staffing and NEOMED teaching certificate program. Electives include oncology,

pediatric/adolescent psychiatry, trauma, investigational drug services, inpatient family medicine, and critical care (surgery).

In addition to clinical activities, residents are involved in educational programs, which include pharmacy case conferences and continuing education seminar presentations. Other teaching opportunities include medical and nursing in-services and co-precepting students from colleges of pharmacy. Research skills are developed through experience and enhanced by instruction during the year as residents complete a research project and drug use evaluation. Residents attend the ASHP Midyear Clinical Meeting and Ohio Pharmacy Residency Conference and have the opportunity to attend and participate in other state and local conferences.

CONTACT

Pharmacy Residency (PGY-1) Director

Judy Ashe, PharmD, BCOP

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Emergency Medicine Residency

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

Emergency Medicine Performance Improvement Committee, Emergency Medicine Taskforce Committee, and Emergency Services Institute Pharmacy Governance Committee. Additional responsibilities include a research project, medication use evaluation, and drug monograph.

CONTACT

Emergency Medicine Residency Director

Maria Kahle, PharmD, BCPS

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Hillcrest Hospital

Hillcrest Hospital is a 500-bed community acute care hospital rated in 2018 by *U.S. News & World Report* as No. 4 in the Cleveland Metropolitan area and one of five Cleveland Clinic Hospitals to be ranked nationally. Hillcrest is an accredited chest pain center with PCI. It is a top 100 hospital for cardiac care. Hillcrest earned Magnet Status, the Quality Achievement Award from the American Heart Association and the Platinum Performance Achievement Award in 2014. Hillcrest Hospital's medical specialties include cardiology, cardiothoracic surgery, gastroenterology, neurology, critical care, emergency medicine, neonatology, oncology, orthopedics, obstetrics and pediatrics. The medical staff includes both private practice and Cleveland Clinic staff physicians. Medical residents, nursing students and pharmacy students are an integral part of the Hillcrest healthcare team. Pharmacists care for patients through a unit based model and satellites in critical care (adult and neonatal), operating room, emergency medicine, medical/surgical and oncology areas.



Pharmacy Residency (PGY-1)

The Pharmacy Residency (PGY-1) is a one-year postgraduate training program that develops general pharmaceutical patient care expertise. Residents who successfully complete this program are well prepared for specialized residencies, fellowships, hospital practice in an integrated patient care area clinical role or other career opportunities.

The residency offers exposure to intensive care (medical, surgical, cardiovascular, and cardiothoracic), high risk obstetrics, neonatology, oncology, emergency medicine, internal medicine, ambulatory internal medicine, longitudinal ambulatory care (anticoagulation and heart failure clinic), infectious disease, administration, and pharmacy practice.

Additional opportunities are available through hospital committees, investigational review boards and elective rotations. Residents fine tune their communication skills through multiple journal clubs and formal presentations. Residents develop critical thinking skills through case conferences in addition to daily rounding

on patient care teams. Residents develop leadership skills through two individual leadership courses and monthly leadership seminars. Residents develop teaching and preceptor skills through PharmD student interactions.

Residents complete a major research project, drug use evaluation, and seminar presentation. Residents submit a manuscript of their research for publication and a poster of their drug use evaluation at ASHP and Vizient. Residents present their research at OCCP and the Ohio Residency Conference.

Please visit our resident website at www.hillcresthospital.org/PGY1pharmacy residents for further information.

CONTACT

Pharmacy Residency (PGY-1) Director

Mary E. Temple-Cooper, MS, PharmD, BCPS, FCCP

Hillcrest Hospital, Department of Pharmacy

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Critical Care Residency (PGY-2)

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

The program offers required learning opportunities in medical, surgical, neonatal, cardiothoracic, and coronary care intensive care unit settings, as well as an infectious disease service, and the emergency department. Elective rotation opportunities are available in high risk obstetrics, trauma, and the pediatric emergency department. The

resident will complete a medication use evaluation and an original research project, with an associated manuscript written for publication. These projects will be presented at various state and national level pharmacy and critical care professional meetings. Numerous educational and preceptor prospects are also available, including didactic teaching of midlevel providers, nursing and pharmacy staff; and precepting of PGY-1 pharmacy residents, and pharmacy students at both the IPPE and APPE level. Clinical and distributive staffing requirements sharpen the resident's abilities as a pharmacist while developing leadership and communication skills. Participation in the Cleveland Clinic Pharmacy Resident Corners of Leadership Program is also encouraged.

CONTACT

Critical Care Residency (PGY-2) Director

Melissa Raich, PharmD, BCCCP

Hillcrest Hospital, Department of Pharmacy

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Lutheran Hospital

Lutheran Hospital is a 203-bed community teaching hospital that encompasses the primary adult inpatient psychiatric units of the Cleveland Clinic Department of Psychiatry. Lutheran Hospital was awarded the 2016 Bernard A. Birnbaum, MD Quality Leadership Award as the top community hospital affiliated with an academic medical center. The psychiatric inpatient units consist of two severe mental illness units, two mood disorder units, one geriatric psychiatry unit, and one alcohol and drug recovery unit. Lutheran supports medical residencies in adult psychiatry and orthopedic surgery. The Department of Pharmacy consists of 26 dedicated staff.

An electronic medical record/CPOE supports pharmacy services. The department utilizes decentralized automation cabinets as its main distribution system.



PGY
2

Lutheran Hospital Psychiatry Residency (PGY-2)

The Lutheran Hospital Psychiatry Residency (PGY-2) is a one-year postgraduate training program that is targeted towards residents who desire to become integral members of interdisciplinary teams caring for individuals with psychiatric disorders. Residents will refine their communication skills with patients through leading several medication education groups per week. Upon completion of the residency, residents will be able to identify and implement opportunities to improve the medication-use system in psychiatric practice areas and establish clinical pharmacy services. Residents will be adequately prepared to pursue board certification in psychiatric pharmacy (BCPP) upon completion of the program.

Required experiences include severe mental illness I and II, mood disorders, and outpatient psychiatry. Elective experiences include child/ adolescent psychiatry, geriatric psychiatry, chemical dependency, consultant liaison, forensics, and emergency psychiatry. All clinical experiences are in the adult inpatient setting unless otherwise noted. The optional longitudinal teaching certificate program provides opportunities to

present large didactic lectures to doctor of pharmacy students and facilitate small group discussions at Northeast Ohio Medical University (NEOMED). An elective longitudinal leadership training program is also offered. Other required activities include a longitudinal research project, didactic lectures for medical residents in adult psychiatry, P&T committee participation, student and PGY1 resident precepting, staff in-services, community outreach, and monthly weekend staffing. Residents will present a poster at the ASHP Midyear Clinical Meeting and the College of Psychiatric and Neurologic Pharmacists (CPNP) Annual Meeting. A platform presentation at the Ohio College of Clinical Pharmacy (OCCP) Fall Meeting is also required.

CONTACT

Psychiatry Residency Director

Ashley Tewksbury, PharmD, BCPP

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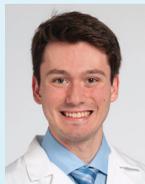
Marymount Hospital

Cleveland Clinic Marymount Hospital is a 315-bed acute care hospital located in Garfield Heights, Ohio. The hospital campus includes a critical care tower, surgery center, medical office building and behavioral health center. The hospital also supports an off-site ambulatory surgery center.

Cleveland Clinic Marymount Hospital is recognized as a “Top Performer on Key Quality Measures” by the Joint Commission. The hospital was also recognized nationally by the 2018-2019 *U.S. News & World Report* for the treatment of heart failure and chronic obstructive pulmonary disease. Other specialty areas include cardiology, vascular surgery and psychiatry.

The Department of Pharmacy provides comprehensive pharmacotherapeutic services and consists of staff pharmacists, clinical specialists, interns, technicians, and various IPPE and APPE students. Eight qualified preceptors are board-certified specialists. Clinical services include 24-hour code blue and stroke alert response, ED culture call back, medication reconciliation, patient education and counseling, bedside delivery prescription services, vancomycin and warfarin consult programs and various automatic services to streamline care.

The department utilizes a decentralized model allowing for interaction with patients and caregivers on each floor. An electronic medical record and computerized physician order entry (CPOE) are used to improve efficiency and safety. Medications are dispensed via an automated distribution system to support workflow. The pharmacy also follows the practice advancement initiative (PAI) to improve medication-related outcomes by empowering pharmacists to become the leaders in drug therapy management.



Pharmacy Residency (PGY-1)

The Cleveland Clinic Marymount Hospital Pharmacy Residency (PGY-1) program builds upon Doctor of Pharmacy (PharmD) education and outcomes to contribute to the development of clinical pharmacists responsible for medication-related care of patients with a wide range of conditions, eligible for board certification and eligible for postgraduate year two (PGY-2) pharmacy residency training.

The residency advisory committee tailors the residency to meet the needs and interests of the resident. Areas of training include internal medicine, critical care, emergency medicine, surgical medicine, behavioral medicine, infectious disease, ambulatory care, drug information/medication safety and administration. In addition, residents will have the opportunity to gain teaching experience through optional participation

in the NEOMED teaching certificate, serve as preceptors for APPE students, and provide drug information and in-services to clinical staff throughout the hospital.

Residents will have longitudinal involvement in the Pharmacy and Therapeutics and Medication Safety committees and will complete original research and present at the Ohio Pharmacy Residency Conference, Ohio College of Clinical Pharmacy and ASHP Midyear Clinical Meeting.

CONTACT

Pharmacy Residency (PGY-1) Director

Julie Michael, PharmD, BCPS

Marymount Hospital, Department of Pharmacy
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Medina Hospital

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

The Department of Pharmacy at Medina Hospital provides 24-hour service with a professional staff of approximately 30 members responsible for the medication use processes. The department is supported by CPOE and an electronic medical record. Automated dispensing cabinets throughout the hospital serve as the primary source of medication distribution.

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



Pharmacy Residency (PGY-1)

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

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

CONTACT

Pharmacy Residency (PGY-1) Director

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Medina Hospital, Department of Pharmacy

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South Pointe Hospital

Cleveland Clinic South Pointe Hospital is a 173-bed acute care community teaching hospital located in Warrensville Heights, an eastern suburb of Cleveland, Ohio. South Pointe is accredited by The Joint Commission and has a medical staff that consists of allopathic and osteopathic physicians. As one of the largest osteopathic teaching institutions in Ohio, South Pointe Hospital is the Center for Osteopathic Regional Education in Northeast Ohio and is also the location for a medical school extension campus of Ohio University Heritage College of Osteopathic Medicine (OUHCOM). *U.S. News & World Report* recognized South Pointe Hospital in achieving the highest rankings in Gastroenterology & GI Surgery and Neurology & Neurosurgery and two Common Adult Procedures and Conditions: Heart Failure and Chronic Obstructive Pulmonary Disease. The hospital was also ranked within the Top 10 among Cleveland-area hospitals.

The Department of Pharmacy at South Pointe Hospital provides services 24 hours a day and operates out of a newly renovated area. Decentralized pharmacy services are established on the medical-surgical floors, emergency department, and outpatient oncology care areas. Clinical rounding services include critical care, infectious disease, and internal medicine. Ambulatory care services are provided in the family medicine clinics.

Pharmacist participation is integrated into direct patient care and quality measurement activities within the hospital. Pharmacy services include integrated medication profile review, patient medication counseling services, clinical consults, and bedside delivery service for discharge medications. The department precepts clinical graduate student rotations from several colleges of pharmacy in the region. Clinical pharmacists also participate in didactic teaching opportunities with the South Pointe medical residency programs.



Pharmacy Residency (PGY-1)

The South Pointe Hospital Pharmacy Residency (PGY-1) is a one-year postgraduate training program which will emphasize the development of general pharmaceutical patient care and practice skills. Throughout the year, the resident is involved in clinical, research, interdisciplinary education, precepting, and service activities. The resident will complete a research project and a drug use evaluation over the course of the year. Professional activities include attendance at local

pharmacy organization meetings, ASHP Midyear Clinical Meeting, and a regional pharmacy resident conference.

CONTACT

Pharmacy Residency (PGY-1) Director
Katy Carlson, PharmD, MS, BCCCP

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South Pointe Hospital

PGY
1



To learn more about the Cleveland Clinic Residency Programs visit
<https://my.clevelandclinic.org/departments/pharmacy/education/residency-programs>

Application Requirements

PGY1 Programs:

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

1. We request a minimum of one (two is preferred) of your three references should come from a preceptor who you have worked with in a clinical setting, related to an APPE in acute or ambulatory care. The clinical preceptor should be able to comment on your scope of responsibility, total patient load, level of autonomy, clinical abilities, and organizational and time management skills. All 3 reference writers should use the standard PhORCAS template to submit their candidate recommendation and comment on a minimum of 7 of the 13 listed candidate characteristics.
2. A response to the following essay statement is required for acceptance. The essay response should be no longer than one page in length. An application will not be reviewed if this statement is missing. Please note that the essay is separate from your letter of intent. Reflecting on your APPE rotations, please provide a piece of critical feedback you have received from one of your preceptors on a direct patient care rotation. Explain how you have incorporated this feedback into your practice and/or worked to improve in this area.

PGY2 Programs:

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

1. We request a minimum of one (two is preferred) of your three references should come from a preceptor who you have worked with in a clinical setting, related to a PGY1 rotation in acute or ambulatory care. The clinical preceptor should be able to comment on your scope of responsibility, total patient load, level of autonomy, clinical abilities, and organizational and time management skills. All 3 reference writers should use the standard PhORCAS template to submit their candidate recommendation and comment on a minimum of 7 of the 13 listed candidate characteristics.
2. A response to the following essay statement is required for acceptance. The essay response should be no longer than one page in length. An application will not be reviewed if this statement is missing. Please note that the essay is separate from your letter of intent. Reflecting on your PGY1 residency rotations, please provide a piece of critical feedback you have received from one of your preceptors on a direct patient care rotation. Explain how you have incorporated this feedback into your practice and/or worked to improve in this area.

Please submit all application materials via Pharmacy Online Residency Centralized Application Service (PhORCAS).

Deadline for receipt of these materials to be considered for an on-site interview is January 2, 2019 by 11:59 PM. For the PGY-2 residency programs (Ambulatory Care, Cardiology, Critical Care, Emergency Medicine, Drug Information, Infectious Diseases, Informatics, Oncology, Psychiatry and Solid Organ Transplant), a Pharmacy (PGY-1) Residency or equivalent experience is required.

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

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

2. Appointments of applicants to residency positions may be contingent upon the applicants satisfying certain eligibility requirements [e.g., graduating from accredited college of pharmacy, obtaining pharmacist license in Ohio (for Ohio sites) or Florida (for Florida site) within 90 days of start date, and successful completion of a pre-employment physical and drug screen, including testing for cotinine.



9500 Euclid Avenue, Cleveland, OH 44195

Cleveland Clinic is a not-for-profit multispecialty academic medical center. Founded in 1921, it is dedicated to providing quality specialized care and includes an outpatient clinic, a hospital with more than 1,400 staffed beds, an education division and a research institute.