

General Information

REQUIREMENTS FOR ADMISSION

- Doctor of Pharmacy graduates of accredited colleges or schools of pharmacy
- United States citizenship or permanent resident visa
- Eligible for New York State licensure
- Prospective PGY2 candidates: residents must have completed or are currently training in an ASHP-Accredited PGY1 Pharmacy Residency

APPLICATION PROCESS

- Completed applications must be submitted via PhORCAS prior to the deadline
- Applications must include:
 - One-page letter of intent stating goals and interest
 - Curriculum vitae
 - Three letters of reference using the standardized recommendation form available in PhORCAS
 - Official college transcripts (uploaded to PhORCAS)

"I hope that you take some time to learn more about our outstanding residency programs and equally outstanding medical center, and then reach the conclusion that pursuing advanced pharmacy training at the University of Rochester Medical Center is a good choice for your career."

- Curtis Haas, PharmD, FCCP
Director of Pharmacy

PART III WAIVER

Part III waiver is available for PGY1 residents who have not previously taken the NYS Part III (also known as Compounding) Board Exam. This waiver will be completed on site at the institution to meet the requirements of Part III set forth by the New York State Board and will not require the resident to sit for the New York State Compounding Board Exam. Of note, PGY2 residents are exempt from taking the Part III exam and will be able to reciprocate their license upon successfully passing the New York State Law Exam by the required deadline. Please contact the program coordinator for additional information. Some exclusions apply.

BENEFITS

- Competitive salary
- Medical, dental and life insurance
- Paid vacation (17 days [Strong Memorial Hospital], 15 days [Highland Hospital])
- Optional contribution to retirement program
- Paid holidays
- Travel stipend (program based) for attendance to two professional meetings (one national, one regional)



Candidate
Accredited

All of our programs are ASHP-accredited, with the exception of a few new programs which are ASHP pre-candidate or candidate status, and participate in the Resident Matching Program. In compliance with the rules and regulations of the National Matching Services and ASHP, the residency site agrees that no person will solicit, accept, or use any ranking-related information from any residency applicant. Please contact individual program directors or coordinator for any questions.

Please visit our residency website for additional program details, summary of benefits, and contact information for our current residents.

STRONG MEMORIAL HOSPITAL

www.urmc.rochester.edu/pharmacy/residency.aspx

HIGHLAND HOSPITAL

PGY1: www.urmc.rochester.edu/highland/departments-centers/pharmacy/pgy1residency.aspx

PGY2: www.urmc.rochester.edu/highland/departments-centers/family-medicine/pharmacy-residency.aspx

Contact

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www.urmedicine.org



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About the University of Rochester Medical Center (URMC)

URMC is a six-hospital health system that provides comprehensive clinical services to western New York. The hospital includes Strong Memorial Hospital (SMH - flagship hospital) and Highland Hospital, both located in Rochester, New York. SMH is an 849-bed academic medical center that includes Wilmot Cancer Institute and Golisano Children's Hospital. SMH is an American College of Surgeons Level 1 trauma center, Level IV NICU, regional burn and pediatric trauma center, comprehensive stroke center, and has specialized inpatient and outpatient cardiology, organ transplant, psychiatric services, and many other medical subspecialties. SMH provides comprehensive care with novel therapies to patients including CAR-T, nusinersen for spinal muscular atrophy, and many other orphan drug therapies.

Clinical Pharmacy Services:

- 24 hours, 7 days a week
- Ambulatory Services in Medicine, Oncology, Psychiatry and Transplant
- Antimicrobial and Opioid Stewardship
- Automated Dispensing Stations, including OR
- Collaborative Drug Therapy Management
- Competency and Credentialing Programs
- Emergency Responses including Cardiac Arrest, Stroke, Sepsis and more
- Extensive Robotics
- Extensive Pharmaceutical Compounding
- Golisano Children's Hospital
- Home Infusion Pharmacy
- Immunization Services
- Long Term Care Facility at Highlands of Brighton
- Patient Education
- Pharmacokinetic Management
- Pharmacotherapy Consultations
- Specialty Pharmacy
- Wilmot Cancer Institute

For more information, visit

www.urmc.rochester.edu/pharmacy.aspx

Our Mission

We improve the well-being of patients and communities by delivering innovative, compassionate, patient- and family-centered health care, enriched by education, science, and technology.

Our Vision

We will define and deliver "Medicine of the Highest Order" and set the standard for compassion and innovation, always placing patients and their families first.



See back for information on Rochester.

About Rochester and the Finger Lakes area

Rochester allows you to experience all a big city has to offer with a small town feel. This metropolitan region situated on Lake Ontario is part of New York's Finger Lakes region and was voted the "Most Beautiful Wine Region in the World" by Arthur Frommer's Budget Travel, 2010 Readers Choice Poll.

FOR THE FAMILY

Rochester hosts hundreds of festivals annually, kicking off festival season at Highland Park's Lilac Festival where we boast the world's largest concentration of lilacs. You can mingle through downtown to the sounds of jazz during the Rochester International Jazz Festival in June or take in one of the many free festivals happening here year round. Every Thursday and Saturday you can head over to Rochester's Public Market offering a wide variety of local produce, delicious food, and bargain deals. It was voted America's Favorite Farmers' Market in 2010!

FOR THE SPORTS BUFF

Rochester was rated the "best minor league sports city" in the USA - home to Red Wings baseball, Amerks hockey, Rhinos soccer, Knighthawks Lacrosse and Lancers basketball.

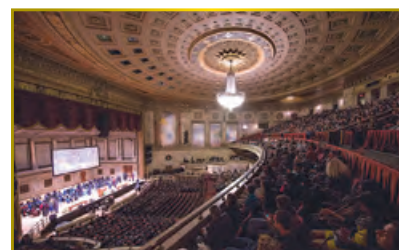
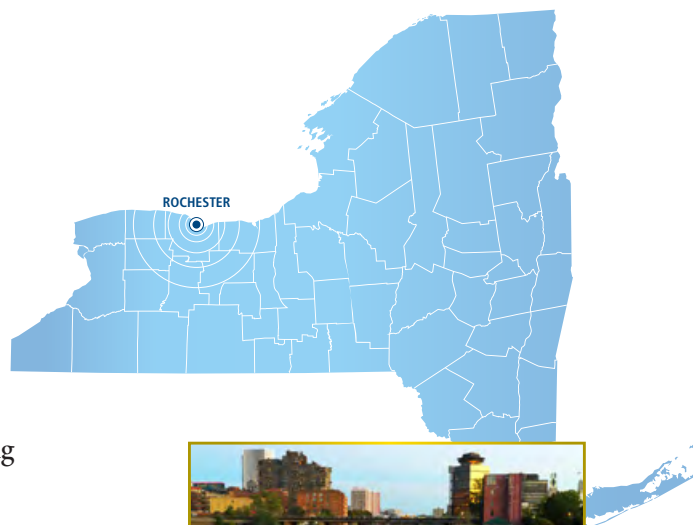
FOR THE OUTDOOR LOVER

Rochester is 90 minutes from Niagara Falls, and an hour north of Letchworth State Park, the "Grand Canyon of the East." Whether you love the sun or the snow, Rochester offers activities and adventure for all seasons. From enjoying our amazing collection of golf courses, boating on the Finger Lakes, hiking through one of our state parks or skiing at Bristol Mountain and Swain Ski Center.

FOR THE CULTURAL BUFF

Rochester is home to numerous museums, including the International Museum of Photography and Film at the George Eastman House and the Strong National Museum of Play. In addition, the Rochester Philharmonic Orchestra, Geva Theatre and the Rochester Broadway Theatre League offer many local and national touring performances.

For more information about Rochester, visit
www.enrollment.rochester.edu/living-here/city/



Resident Research Projects, 2018 – 2019 (Current Residents)

PGY1 COMMUNITY

Karlee Platts	Major: A retrospective review of managing chronic myeloid leukemia (cml) patients on tyrosine kinase inhibitor therapy Minor: Real-world experience with proprotein convertase subtilisin/kexin type 9 (PCSK9) inhibitors at a university specialty pharmacy
Nora Shafer	Major: Safety and efficacy of current urmc system protocols for the management of anticoagulation therapy in the transition of care for dvt and pe patients Minor: Identifying gaps in utilization of oral chemotherapy treatment plans

PGY1 PHARMACY (STRONG MEMORIAL HOSPITAL)

Frank Lattuca	Major: Evaluation of bleeding events in patients receiving ibrutinib Minor (with co-resident O'Connell): Evaluation of albumin use at an academic medical center
Jason Lew	Major: A retrospective evaluation of clostridium difficile infections with the use of ertapenem in surgical prophylaxis for colorectal and gastrointestinal procedures Minor (with co-resident Marino): Intravenous immunoglobulin (IVIG) use at an academic medical center: a retrospective observational study to validate current practice
Matthew O'Connell	Major: Treatment duration for gram negative bacteremia Minor (with co-resident Lattuca): Evaluation of albumin use at an academic medical center

PGY1 PEDIATRICS

Caitlin Marino	Major: Utilization and protocol compliance of glucose 40% oral gel in newborns with hypoglycemia Minor (with co-resident Lew): Intravenous immunoglobulin (IVIG) use at an academic medical center: a retrospective observational study to validate current practice
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PGY1 PHARMACY (HIGHLAND HOSPITAL)

Nicholas Polito	Major: Characterization of intravenous ethanol use in surgical patients Minor (with co-resident Schranz): Evaluation of the use of ceftriaxone in suspected urinary tract infection and community acquired pneumonia at a community teaching hospital
Emily Schranz	Major: Retrospective evaluation of prescribing patterns of chemical venous thromboembolism prophylaxis in patients presenting with severe traumatic brain injury Minor (with co-resident Polito): Evaluation of the use of ceftriaxone in suspected urinary tract infection and community acquired pneumonia at a community teaching hospital

PGY2 AMBULATORY CARE (HIGHLAND HOSPITAL)

Samantha Leistman	A model for ambulatory care pharmacist involvement in the transitional care process to reduce acute health care utilization within a large academic health system
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PGY2 CRITICAL CARE

Kaylee Maynard	Retrospective evaluation of intrathecal nicardipine in aneurysmal subarachnoid hemorrhage
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PGY2 EMERGENCY MEDICINE

Mercy Hoang-Nguyen Faisal Minhaj	Evaluation of opioid requirements in the management of renal colic before and after intravenous lidocaine treatment pathway in the emergency department (ED)
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PGY2 ONCOLOGY

Tate Feeney	Single center utilization of CDK 4/6 inhibitors in women with advanced or metastatic breast cancer
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PGY1 COMMUNITY

Kaleigh Gregory	Minor: Evaluation of adherence to safety monitoring and the impact of the University of Rochester Specialty Pharmacy Patient Management Program in multiple sclerosis patients initiating fingolimod
Samantha Leistman	Major: A model for psychosocial assessment of liver transplant candidates to predict substance recidivism Minor: Perception of immunizations among immunocompromised patients relative to medication therapy at a University Specialty Pharmacy

PGY1 PHARMACY (STRONG MEMORIAL HOSPITAL)

Kaylee Maynard	Major: Risk of nephrotoxicity in pediatric patients on combination antimicrobial therapy with piperacillin-tazobactam and vancomycin versus cefepime and vancomycin Minor (with co-resident Minhaj): Evaluation of vancomycin dosing and monitoring practices by pharmacists at a large academic medical center
Faisal Minhaj	Major: Predictors for naloxone administration for respiratory depression in hospitalized adults Minor (with co-resident Maynard): Evaluation of vancomycin dosing and monitoring practices by pharmacists at a large academic medical center
Drew Seidel	Major: Sugammadex versus neostigmine/glycopyrrolate for the reversal of neuromuscular blockade in surgical patients Minor (with co-resident Echtenkamp): Characterizing dispensing practice of overfilled oral medications syringes at the University of Rochester Medical Center

PGY1 PEDIATRICS

Christine Echtenkamp	Major: Evaluation of low- versus high-dose magnesium sulfate in the emergency department for the management of asthma exacerbations in children and adolescents Minor (with co-resident Seidel): Characterizing dispensing practice of overfilled oral medications syringes at the University of Rochester Medical Center
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PGY1 PHARMACY (HIGHLAND HOSPITAL)

Hannah Mierzwa	Major: Evaluation of the clinical impact of concomitant acid suppression therapy in gastrointestinal cancer patients treated with capecitabine monotherapy Minor (with co-resident Mancuso): Evaluation of compliance and efficacy of a new protocol for the management of postoperative hyperglycemia
Alexandra Mancuso	Major: Hepatitis C screening and referral to care for patients born between 1945 and 1965 at varying practice sites within a university health system Minor (with co-resident Mierzwa): Evaluation of compliance and efficacy of a new protocol for the management of postoperative hyperglycemia

PGY2 EMERGENCY MEDICINE

Therese Makhoul Gregory Kelly	Incidence of thromboembolic events following administration of four-factor prothrombin complex concentrate for anticoagulation reversal Lidocaine for renal colic in the emergency department
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PGY2 INFECTIOUS DISEASES

Saloni Patel	Evaluating candidemia management and associated clinical outcomes in hospitalized patients: an opportunity for antifungal stewardship
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PGY2 ONCOLOGY

Bryan Fitzgerald	Fludarabine-melphalan versus fludarabine-busulfan conditioning for allogeneic hematopoietic stem cell transplant: a retrospective, single-center review
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PGY1 PHARMACY, STRONG MEMORIAL HOSPITAL

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PGY2 PHARMACY, EMERGENCY MEDICINE

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PGY2 PHARMACY, INFECTIOUS DISEASES

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PGY2 PHARMACY, ONCOLOGY

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PGY1 Community Pharmacy Residency at Strong Memorial Hospital (2 Positions)

The PGY1 Community Pharmacy Residency at UR Medicine Strong Memorial Hospital is a 12-month, full-time curriculum that provides the essential elements needed to mold a well-rounded clinical pharmacist. Outlined below are some additional opportunities offered to residents (some of which are required) including key program components.

- Part III Waiver (See General Information)
- Presents research at ASHP-Midyear/Vizient and Eastern States Conference
- Local meetings: New York State - ACCP
- Immunization opportunities
- Teaching and Learning Certificate Program offered by Wegmans School of Pharmacy
- Pharmacy Practice (staffing requirement): every 3rd weekend
- Present CE-accredited presentations
- Develop business improvement plan

Rotation Schedule

The schedule for the residency year is outlined below and is tailored to meet the needs and interests of the individual resident.

CORE ROTATIONS (REQUIRED)

- Hospital and Pharmacy Practice Orientation
- Community Care Clinic
- Psychiatric Clinic
- Solid Organ Transplant
- Specialty Pharmacy
- Transitions of Care

LONGITUDINAL ROTATIONS (REQUIRED)

- Internal Medicine
- Management
- Pharmacy Practice (Staffing)
- Teaching, Precepting and Presentations
- Quality Improvement
- Research

ELECTIVE ROTATIONS

- Administration
- Cardiology/Pulmonology
- Gastroenterology – IBD or Hepatitis focus
- Long-Term Care
- Neurology – MS focus
- Oncology
- Rheumatology
- Repeat Core Rotation

Contact

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The PGY1 Community Pharmacy Residency is an ASHP/APhA accredited residency and utilizes the Resident Matching Program. In compliance with the rules and regulations of the National Matching Services and ASHP, the residency site agrees that no person will solicit, accept, or use any ranking-related information from any residency applicant.

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PGY1 Pharmacy Residency at Strong Memorial Hospital (3 Positions)

The PGY1 Pharmacy Residency at UR Medicine Strong Memorial Hospital is a 12-month, full-time curriculum that provides the essential elements needed to mold a well-rounded clinical pharmacist. Outlined below are some additional opportunities offered to residents (some of which are required) including key program components:

- Part III Waiver (See General Information)
- ACLS Certification
- Committee participation
- Precepting/teaching opportunities
- National/regional meetings: Vizient/ASHP – Midyear (Minor Research) and Eastern States Conference (Major Research).
Local: University of Buffalo Resident Project Presentation Day
- Local meetings: New York State – ACCP
- Teaching and Learning Certificate Program offered by Wegmans School of Pharmacy
- No on-call responsibilities
- Holiday coverage, at minimum, one major and one minor holiday
- Pharmacy practice (staffing requirement): every 3rd weekend

Rotation Schedule

The schedule for the residency year is outlined below and is tailored to meet the needs and interests of the individual resident.

CORE ROTATIONS (REQUIRED)

- Ambulatory Care (four weeks)*
- Cardiology (four weeks)
- Critical Care (four weeks)*
- Internal Medicine (eight weeks)

LONGITUDINAL ROTATIONS (REQUIRED)

- Management/Safety
- Pharmacy Practice (Staffing)
- Presentations
- Research
- Resuscitation
- Therapeutics (as assigned)

ELECTIVE ROTATIONS

- Administration
- Ambulatory Adult Cystic Fibrosis and Sickle Cell Disease
- Bone Marrow Transplant
- Burn Trauma ICU
- Emergency Medicine
- General Pediatrics#
- Infectious Disease
- Informatics
- Internal Medicine**
- Investigational Drug Service
- Medical ICU (Strong or Highland Hospital)
- Medication Safety
- Neuromedicine ICU
- Oncology**
- Operating Room
- Palliative Care
- Pediatric ICU
- Psychiatry**
- Specialty Pharmacy
- Surgical ICU
- Toxicology
- Transplant**
- Transitional Care

* Resident is able to choose from multiple critical care and ambulatory sites as outlined under elective rotations. Required rotations may be repeated as an elective. Residents may also select any rotation listed under the other residency programs as an optional elective.

** These electives are available in both the inpatient and outpatient settings.

Multiple pediatric sub-specialty elective options are also available to choose from including Neonatal ICU, Pediatric Cardiovascular ICU, Pediatric Hematology-Oncology and Pediatric ICU.

Contact

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PGY1 Pharmacy Residency at Highland Hospital (2 Positions)

The PGY1 Pharmacy Residency at Highland Hospital is a 12-month, full-time curriculum that provides the essential elements needed to mold a well-rounded clinical pharmacist. Residents will function as a key member of the health care team and be accountable for achieving optimal drug therapy outcomes for their patients. This intensive training involves the resident participating in the following activities:

- Designing, recommending and managing drug treatment regimens for hospitalized patients in internal medicine and a variety of specialties
- Playing a key role in the continuity of care of patients through medication reconciliation and discharge counseling
- Participating in pharmacy practice management and patient safety activities to broaden the resident's understanding of the role of pharmacy and its integration into the healthcare system
- Exploring specialty areas of patient care through various electives, including up to eight weeks of rotations at Strong Memorial Hospital

Pharmacists completing the residency at Highland Hospital will have gained the skills necessary to be competent and confident practitioners of pharmaceutical care for patients with a wide range of conditions, eligible for board certification, and eligible for PGY2 pharmacy residency training. The resident will demonstrate professional maturity by developing and following a personal philosophy of excellence, monitoring his or her own performance and exhibiting a commitment to the profession of pharmacy.

HIGHLAND HOSPITAL

"We deliver Medicine of the Highest Order in a community hospital where compassion, quality and patient and family-centered care are our guiding principles. Our affiliation with a world-class medical center will allow us to provide the best of both worlds— state of the art medicine and personalized care."

Our mission is a commitment to excellence in health care, with patients and their families at the heart of all that we do.



Highland Hospital, located in Rochester, New York, is a 261-bed teaching community hospital that is the region-leading provider for key specialties including joint replacement, bariatric surgery, women's health services and geriatric care.

Highland Hospital is an affiliate of the University of Rochester Medical Center, a large multi-center system, that offers a variety of specialties and services intertwined to serve a diverse population. This network of doctors, nurses, pharmacists, allied health professionals, and hospitals works in concert with the community to create an enhanced quality of life for patients. It is this system that provides an ideal setting for teaching the fundamentals of pharmacy practice.

The Department of Pharmacy has academic affiliations with the State University of New York at Buffalo School of Pharmacy and Pharmaceutical Sciences and the Wegmans School of Pharmacy at St. John Fisher College, as well as several other institutions.

See back for additional information.

PGY1 Pharmacy Residency at Highland Hospital (2 Positions)

Rotation Schedule

The schedule for the residency year is outlined below and is tailored to meet the needs and interests of the individual resident.

CORE ROTATIONS (REQUIRED)

- Orientation (eight weeks)
- Critical Care (six weeks)
- Infectious Diseases (four weeks)
- Internal Medicine (12 weeks)
- Transitions of Care (four weeks)

LONGITUDINAL ROTATIONS (REQUIRED)

- Management
- Pharmacy Practice (Staffing)
- Patient/Medication Safety
- Research
- Teaching and Education

ELECTIVE ROTATIONS

(16 WEEKS TOTAL, FOUR WEEKS PER ROTATION)

- Administration
- Advanced Pharmacy Practice
- Ambulatory Care
- Anticoagulation
- Antimicrobial Stewardship

TWO POSSIBLE ELECTIVES AT THE UNIVERSITY OF ROCHESTER MEDICAL CENTER

- Burn/Trauma Intensive Care
- Cardiology
- Emergency Medicine
- Hematology/Oncology
- Infectious Diseases
- Medical Intensive Care
- Psychiatry
- Pediatric Intensive Care
- Solid Organ Transplant
- Specialty Pharmacy
- Toxicology

Additional Opportunities and Research

Residents will also have opportunities to develop teaching skills by participating in a teaching certificate program as well as providing in-service presentations to pharmacy staff and students and didactic lectures to faculty, residents, and students in other health care professions.

Completion of two major projects is required, and the results are to be presented at the ASHP Midyear Clinical Meeting and the Eastern States Conference for Pharmacy Residents and Preceptors.

FOR MORE INFORMATION, VISIT

www.urmc.rochester.edu/hh

Contact

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PGY2 Ambulatory Care Pharmacy Residency at Highland Family Medicine (1 Position)

The PGY2 Ambulatory Care Residency is a 12-month, full-time curriculum that provides the essential elements needed to develop a successful clinical pharmacist that is able to deliver care to culturally diverse and clinically complex patients. This comprehensive program involves the following key components:

- Participation as an interdisciplinary team member
- Interprofessional education sessions
- Development and completion of quality improvement initiatives
- Longitudinal rotation structure that allows long-term follow up and relationship building with patients
- Design and implementation of a pharmacy practice-related research project
- Precepting students at residents
- Teaching at the Wegmans School of Pharmacy (didactic lectures and clinical skills workshops)

Pharmacists completing this residency program will be competent and confident practitioners of direct patient care in any ambulatory care environment. They will be accountable for practicing team-based care within a large, academic, primary care model. The program encourages personal and professional growth, with a focus on interprofessional collaboration, scholarship, and teaching and learning. The resident will demonstrate professional maturity by developing and following a personal philosophy of excellence, monitoring his or her own performance and exhibiting a commitment to the profession of pharmacy.

Highland Family Medicine

Highland Family Medicine is a Level III certified Patient-Centered Medical Home in Rochester, NY that provides full spectrum family medicine services to over 22,000 patients, averaging approximately 68,000 patient visits per year.

Highland Family Medicine is associated with UR Medicine's Highland Hospital and serves as a training site for various training programs including medical, pharmacy, and nurse practitioner residency programs in primary care and fellowships in behavioral health services/psychology, maternal child health, sports medicine, and faculty development.

Primary care services include pediatrics, integrated behavioral health, depression and addiction medicine, sports medicine, geriatrics, community and home-based care, and OB/Gyn. Additional onsite resources include a UR Medicine laboratory, family planning, immunization outreach, and social work.

Wegmans School Of Pharmacy

The Wegmans School of Pharmacy at St. John Fisher College opened in Fall 2006 as the first of its kind in Monroe County and the fifth pharmacy school in New York State. Since its beginning, the School of Pharmacy has grown to include over 300 students across four classes and over 40 faculty and staff.

The mission of the Wegmans School of Pharmacy is "preparing pharmacists for lives of intellectual, professional, and civic integrity." The School of Pharmacy strives to be recognized for preparing pharmacists to provide pharmaceutical care that enhances the health related quality of life for the patients they serve. Wegmans School of Pharmacy is committed to providing an environment that promotes academic excellence, service, and scholarship by encouraging each student's intellectual and personal development and fostering the growth of lifelong learners who are committed to advancing the profession of pharmacy.

See back for additional information.

PGY2 Ambulatory Care Pharmacy Residency at Highland Family Medicine (1 Position)

Rotation Schedule

LONGITUDINAL ROTATIONS (REQUIRED)

- Medication and Disease State Management Clinic (two half-days per week)
- Primary Care Clinic (two half-days per week)
- Transitions in Care (three half-days per week)
- Anticoagulation (one half-day per week)
- Academia (one half-day per week)
- Research and Quality Improvement (one half-day per week)

ELECTIVE ROTATIONS (12 WEEKS TOTAL, 4 WEEKS PER ROTATION)

Various elective opportunities are available through both Highland and Strong Memorial Hospital that will be tailored to the resident's individual goals and interests.

Additional Opportunities and Research

The resident will have the opportunity to develop teaching skills by participating in the teaching certificate program offered by the Wegmans School of Pharmacy (if not previously completed). Participation in monthly journal clubs with medical residents, quarterly leadership and development workshops, and participate in monthly community service activities. The resident will present at least one continuing education program and a minimum of two clinical conference presentations to health care professionals. Additional involvement in presentations may be requested throughout the year.

Completion of a pharmacy practice-related research project is required and results are to be presented at a state or national level professional meeting, as well as submitted for manuscript publication. Opportunities for involvement in additional research or quality improvement projects may also be available.

FOR MORE INFORMATION, VISIT

www.urmc.rochester.edu/highland/departments-centers/family-medicine/pharmacy-residency.aspx

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PGY2 Critical Care Pharmacy Residency at Strong Memorial Hospital (1 Position)

The Critical Care Pharmacy Residency at UR Medicine Strong Memorial Hospital is a 12-month, full-time curriculum that provides the essential elements needed to develop a successful pharmacy specialist. This intensive training involves activities in a wide variety of intensive care and emergency medicine practice settings.

- Providing optimal medication therapy management for critically ill patients
- Designing and managing pharmacotherapy regimens for hospitalized patients in a variety of intensive care units and in the emergency department
- Training in ACLS or PALS and ATLS and longitudinal participation in medical emergencies and resuscitation teams (code sepsis, PERT, Stroke, rapid response)
- Participation in activities to develop the skills necessary to critically evaluate the literature pertaining to the care of critically ill patients (emergency medicine/critical care pharmacy conference and journal club, ICU fellow journal club)
- Numerous opportunities for precepting, teaching, and counseling patients or their family members, students, residents, pharmacists, and other health care professionals as an integral part of the health care team

Pharmacists completing this residency will be competent and confident practitioners of direct patient care in any intensive care environment. They 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, patients, and their family members on drug-related topics. Also, the pharmacist will be able to integrate the accumulated experience and knowledge gained during previous training and transform it into improved pharmaceutical care for patients who are critically ill. They will demonstrate professional maturity by following a personal philosophy of practice, monitoring their own performance, exhibiting commitment to the profession, and exercising leadership in improving the efficiency and safety of the medication-use system.

Rotation Schedule

The schedule for the residency year is outlined below and is tailored to meet the needs and interests of the individual resident.

INTENSIVE CARE ROTATIONS (REQUIRED)

- Medical Intensive Care (Longitudinal)
- Surgical Intensive Care (Longitudinal)
- Neuromedicine Intensive Care
- Burn/Trauma Intensive Care
- Cardiovascular Intensive Care
- Medical/Pulmonary Progressive Care

ADDITIONAL ROTATIONS (REQUIRED)

- Emergency Medicine
- Nutrition Support
- Toxicology
- Management (Longitudinal)
- Preceptorship (Longitudinal)
- Presentations (Longitudinal)
- Research (Longitudinal)
- Resuscitation (Longitudinal)

ADVANCED CLINICAL PRACTICE (LONGITUDINAL)

Following completion of the orientation period, the PGY2 Critical Care Pharmacy Resident will be required to provide comprehensive pharmacy services as part of the critical care pharmacy team every third weekend and on assigned UR Medicine holidays.

ELECTIVE ROTATIONS

Elective rotations are designed to customize the critical care experience to the needs and desires of each resident.

Electives include:

- Selection of **one (1)** rotation:
 - Pediatric Intensive Care
 - Highland Hospital Intensive Care-Community

See back for additional information.

PGY2 Critical Care Pharmacy Residency at Strong Memorial Hospital (1 Position)

Additional Opportunities and Research

The resident will receive training in Advanced Cardiac Life Support (ACLS) or Pediatric Advanced Life Support (PALS) and Advance Trauma Life Support (ATLS). This training will aid the resident in attending medical and surgical resuscitations throughout the year.

Residents will also have opportunities to develop teaching skills by providing presentations to both the pharmacy staff as well as faculty, residents, and students in other health care professions.

Completion of a research project and a drug use evaluation related to critical care are required and the results are to be presented at a local or regional conference.

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PGY2 Emergency Medicine Pharmacy Residency at Strong Memorial Hospital (1 Position)

The Emergency Medicine Pharmacy Residency at UR Medicine Strong Memorial Hospital is a 12-month, full-time curriculum that provides the essential elements needed to develop a successful pharmacy specialist. This intensive training involves activities in a wide variety of practice settings:

- Providing optimal medication therapy management for patients who are in need of emergent care
- Designing and managing pharmacotherapy regimens for hospitalized patients in a variety of emergency medicine and intensive care settings
- Training in ATLS and ACLS or PALS and longitudinal participation in medical and surgical emergencies, resuscitation, and simulation provided at an American College of Surgeons Level 1 Trauma Center
- Participation in code, stroke, sepsis, pulmonary embolism, and myocardial infarction response teams throughout the emergency department and medical center
- Numerous opportunities for precepting, teaching, and counseling patients, students, residents, pharmacists, and other health care professionals as an integral part of the health care team

Pharmacists completing this residency will be competent and confident practitioners of direct patient care in any emergency medicine environment. They 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, patients, and the community on drug-related topics. Also, the pharmacist will be able to integrate the accumulated experience and knowledge gained during previous training and transform it into improved pharmaceutical care for patients who are critically ill and that need emergent care. They will demonstrate professional maturity by following a personal philosophy of practice, monitoring their own performance, exhibiting commitment to the profession, and exercising leadership in improving the efficiency and safety of the medication-use system.

Rotation Schedule

The schedule for the residency year is outlined below and is tailored to meet the needs and interests of the individual resident.

REQUIRED ROTATIONS

- Orientation
- Emergency Medicine - Adult/Pediatrics
- Emergency Medicine - Community
- Emergency Medical Services (EMS)
- Medical Intensive Care Unit (MICU)
- Toxicology

LONGITUDINAL ROTATIONS (REQUIRED)

- Emergency Medicine – Antimicrobial Stewardship
- Management
- Presentations /Preceptorship
- Research
- Resuscitation

Rotation Schedule continued on back.

PGY2 Emergency Medicine Pharmacy Residency at Strong Memorial Hospital (1 Position)

Rotation Schedule

(continued)

■ ADVANCED CLINICAL PRACTICE (LONGITUDINAL)

Following completion of the orientation period, the PGY2 Emergency Medicine Pharmacy Resident will be required to provide comprehensive pharmacy services as part of the emergency medicine pharmacy team every third weekend and on assigned UR Medicine holidays.

ELECTIVE ROTATIONS

Elective rotations are designed to customize the emergency medicine experience to the needs and desires of each resident. Electives include:

Selection of **two (2)** Critical Care rotations:

- Burn/Trauma Intensive Care Unit (BTICU)
- Cardiovascular Intensive Care Unit (CVICU)
- Neuromedicine Intensive Care Unit (NMICU)
- Pediatric Intensive Care Unit (PICU)
- Surgical Intensive Care Unit (SICU)

Required rotations may be repeated as an elective.

Additional Opportunities and Research

The residents will have many educational opportunities throughout the year including participation in Emergency Medicine (EM) medical resident's weekly conference, weekly EM/critical care pharmacy conference, EM and pharmacy journal clubs, cadaver labs, and simulation activities. The residents will be able to participate in several specialty education days throughout the year; EMS, Pediatrics, Wilderness Conference, Fire, Rescue, and Medicine, and Toxicology Teaching Days. This training will aid the resident in attending medical and surgical resuscitations throughout the year.

Residents will also have opportunities to develop teaching skills by providing presentations to both the pharmacy staff as well as faculty, residents, and students in other health care professions.

Completion of a research project related to EM is required and results are to be presented to the emergency department and another local, regional, or national conference.

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PGY2 Infectious Diseases Pharmacy Residency at Strong Memorial Hospital (1 Position)

The PGY2 Infectious Diseases Pharmacy Residency at UR Strong Memorial Hospital is a 12-month, full-time intensive learning program focused on training residents to become independent clinicians and leaders in infectious diseases and antimicrobial stewardship. The program has a long history with over 12 past residents who currently practice in infectious diseases throughout the country. The training program involves a wide variety of learning experiences, including:

- Rounding with infectious diseases clinical teams, including immunocompromised infectious diseases service
- Participating in outpatient parenteral antimicrobial therapy (OPAT) management as part of a multidisciplinary team in the Infectious Diseases Clinic
- Responding to Restricted Antimicrobial pages from 8am – 5pm (Monday-Friday)
- Provision of ambulatory clinical pharmacy services to HIV-positive patients and HCV-positive patients in an outpatient setting
- Participating in antimicrobial stewardship services in both a large, academic medical center and a teaching, community hospital
- Learning about diagnostic procedures in the microbiology laboratory
- Numerous opportunities for precepting and teaching students, residents, pharmacists, and other health care professionals in infectious diseases

The PGY2 infectious diseases pharmacy residency program builds on Doctor of Pharmacy (PharmD) education and PGY1 pharmacy residency programs to contribute to the development of clinical pharmacists in specialized areas of practice. The PGY2 infectious diseases 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 this accredited PGY2 infectious diseases pharmacy residency are prepared for advanced patient care, academic, or other specialized positions, along with board certification in infectious diseases pharmacy.

Rotation Schedule

The schedule for the residency year is outlined below and is tailored to meet the needs and interests of the individual resident.

REQUIRED ROTATIONS

- Orientation
- Antimicrobial Stewardship (various settings)
 - Strong Memorial Hospital (846-bed, academic medical center)
 - Highland Hospital (260-bed, community hospital specialized in joint replacement, bariatric surgery, women's health, and geriatric care)
- Clinical Microbiology Laboratory
- Infectious Diseases Adult Consult Service
- Transplant Infectious Diseases Adult Consult Service
- Pediatric Infectious Diseases Service
- Hepatitis C Ambulatory Clinic
- Outpatient Infectious Diseases

LONGITUDINAL ROTATIONS

- Emergency Medicine Antimicrobial Stewardship
- Practice Management in Infectious Diseases and Stewardship
- Research

ADVANCED CLINICAL PRACTICE (LONGITUDINAL)

Following completion of the orientation period, the PGY2 Infectious Diseases Pharmacy Resident will be required to provide comprehensive pharmacy services on the inpatient pharmacy team on designated weekends and on assigned UR Medicine holidays.

See back for additional information.

PGY2 Infectious Diseases Pharmacy Residency at Strong Memorial Hospital (1 Position)

Additional Opportunities and Research

The resident will have multiple opportunities for additional certifications including: SIDP Antimicrobial Stewardship Certificate for Acute Care, HIV Certificate Program through the University of Buffalo, and New York State Clinical Education Initiative STD training.

They will also have the opportunity to attend ID Week 2019 in Washington, DC.

Residents will develop teaching skills by providing in-service presentations for pharmacy staff and didactic lectures to students in other healthcare professions, such as nurse practitioners and physician assistants.

Completion of a research project related to infectious diseases is required, and the results are to be presented at an infectious diseases conference.

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PGY2 Oncology Pharmacy Residency at Strong Memorial Hospital (1 Position)

The PGY2 Oncology Pharmacy Residency at UR Strong Memorial Hospital Wilmot Cancer Institute is a 12-month, full-time curriculum that provides the essential elements needed to shape a successful pharmacy specialist. This intensive training involves activities in a wide variety of practice settings.

- Rounding with multidisciplinary malignant hematology, medical oncology and blood/marrow transplant clinical teams
- Providing ambulatory pharmacy services to both solid and liquid tumor patients in the outpatient Wilmot Cancer Institute clinics
- Providing direct pharmaceutical care to patients enrolled in clinical research studies
- Participating in the oral chemotherapy program by providing patient education, clinical follow-up and drug information services
- Applying appropriate sterile compounding technique for chemotherapy preparation
- Precepting, counseling, and teaching patients, students, residents, pharmacists, advanced practice providers and oncologists, serving as an integral part of the healthcare team

This PGY2 advanced pharmacy practice residency program in oncology is intended to develop the knowledge, skills and abilities of a qualified pharmacist that are necessary to be an expert clinical pharmacy practitioner in oncology. It is intended that a graduate of this program will be fully qualified to develop and sustain an independent and successful clinical pharmacy practice in any oncology setting.

Rotation Schedule

The schedule for the residency year is outlined below and is tailored to meet the needs and interests of the individual resident.

REQUIRED ROTATIONS

- Orientation (two to three weeks)
- Chemotherapy Drug Preparation and Outpatient Infusion Center (five weeks)
- Investigational Drug Service (two weeks)
- Medical Oncology (four to six weeks)
- Malignant Hematology (six to eight weeks)
- Blood/Marrow Transplant (six to eight weeks)
- Outpatient Oncology (18 weeks)
 - Thoracic Oncology
 - Gastrointestinal Oncology
 - Genitourinary Oncology
 - Melanoma and Sarcoma
 - Neuro-Oncology
 - Leukemia
 - Lymphoma & Multiple Myeloma
 - Gynecologic Oncology
 - Breast Oncology

LONGITUDINAL ROTATIONS (REQUIRED)

- Management
- Geriatric Oncology Clinic
- Research
- Teaching Certificate (may opt out)

Rotation Schedule continued on back.

PGY2 Oncology Pharmacy Residency at Strong Memorial Hospital (1 Position)

Rotation Schedule

(continued)

ADVANCED CLINICAL PRACTICE (LONGITUDINAL)

Following the completion of the orientation period, the resident will be required to provide comprehensive clinical pharmacokinetics and oncology pharmacy services to the Wilmot Cancer Institute every 3rd Friday (July – December) and every 3rd weekend. Shift hours may vary but typically run from 7:00 a.m. to 3:30 p.m.

ELECTIVE ROTATIONS

Elective rotations are designed to customize the oncology residency experience in order to fit the needs and desires of each resident.

Electives include:

- Benign Hematology
- Oral Oncology/ Specialty Pharmacy
- Pain and Palliative Care
- Pediatric Oncology

Required rotations may be repeated as an elective.

Additional Opportunities and Research

Residents will also have opportunities to develop teaching skills by providing presentations to the pharmacy staff, as well as faculty, residents and students in other healthcare professions. Completion of a research project related to oncology pharmacy is required – and the results will be presented at the Hematology Oncology Pharmacy Association (HOPA) annual conference.

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PGY2 Pediatric Pharmacy Residency at Golisano Children's Hospital (1 Position)

The PGY2 Pediatric Pharmacy Residency at UR Medicine Golisano Children's Hospital, within Strong Memorial Hospital, is a 12-month, full-time curriculum that provides the essential elements needed to shape a successful pharmacy specialist. This intensive training involves activities in a wide variety of practice settings.

- Providing optimal medication therapy management for pediatric patients
- Rounding with multidisciplinary PICU, NICU, PCICU, pediatric hematology-oncology, and general pediatric clinical teams
- Training in PALS and longitudinal participation in pediatric medical emergencies and resuscitation
- Numerous opportunities for precepting, teaching, and counseling patients, students, residents, pharmacists, and other health care professionals as an integral part of the health care team

This PGY2 advanced pharmacy practice residency program in pediatrics is intended to develop the knowledge, skills and abilities of a qualified pharmacist that are necessary to be an expert clinical pharmacy practitioner. It is intended that a graduate of this program will be fully qualified to develop and sustain an independent and successful clinical pharmacy practice in any pediatric clinical setting.

Rotation Schedule

CORE ROTATIONS (REQUIRED)

- Pharmacy Practice (Staffing) (six weeks)
- General Pediatrics (six weeks)
- Pediatric Intensive Care (six weeks)
- Neonatal Intensive Care (six weeks)
- Pediatric Cardiac Intensive Care (four weeks)
- Pediatric Infectious Disease (four weeks)
- Pediatric Hematology/Oncology (six weeks)
- Pediatric Emergency Medicine (four weeks)
- Elective (six weeks)

LONGITUDINAL ROTATIONS (REQUIRED)

- Blue 100 Code & Trauma Participation
- Management
- Preceptorship
- Presentations
- Research

ADVANCED CLINICAL PRACTICE (LONGITUDINAL)

Following completion of the orientation period, the PGY2 Pediatric Pharmacy Resident will be required to provide comprehensive pharmacy services as part of the pediatric pharmacy team every third weekend and on assigned UR Medicine holidays.

ELECTIVE ROTATIONS

Elective rotations are designed to customize the pediatric experience to the needs and desires of each resident. Electives include:

Selection of **one (1)** elective rotation:

- Administration
- Informatics
- Medication Safety

Required rotations may be repeated as an elective.

See back for additional information.

PGY2 Pediatric Pharmacy Residency at Golisano Children's Hospital (1 Position)

Additional Opportunities and Research

Residents will also have opportunities to develop teaching skills by providing presentations to the pharmacy staff, as well as faculty, residents and students in other healthcare professions. Completion of a research project related to pediatric pharmacy is required and the results will be presented at the Pediatric Pharmacy Advocacy Group (PPAG) annual conference.

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