



## PGY1-PHARMACY RESIDENCY

The University of Virginia Health (UVAH) offers an American Society of Health-System Pharmacists (ASHP)-accredited PGY1-Pharmacy Residency. During this 12-month program, residents are involved in high-quality patient-centered care, practice management and policy, project management, education of health care providers and trainees, and participation in medical emergencies. The purpose of the PGY1-Pharmacy Residency is to 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.

### Residency Benefits

Current resident benefits include:

- Stipend of \$52,520
- Twelve days paid vacation days
- Eight days paid holidays
- Sick (n=14) and interview (n=5) days
- Premium medical/dental/vision insurance
- Professional leave to attend meetings (ASHP Midyear and the regional residency conference)

### Application Requirements

Applicants must:

- Be enrolled in or a graduate of an ACPE-accredited PharmD program
- Be a licensed pharmacist in the Commonwealth of Virginia by September 1.

**Completed application materials must be uploaded into PhORCAS by December 31.**

**Residency match #: 177913**

### Program Director Contact Information:

Michelle W. McCarthy, PharmD, FASHP  
PGY1-Pharmacy Residency Program Director  
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### Michelle W. McCarthy, PharmD, FASHP

Dr. McCarthy is the Pharmacy Education and Graduate Programs Coordinator and the residency program director for the PGY1-Pharmacy residency program at the University of Virginia (UVA) Health. Additionally, she serves as the residency coordinator for UVA's 11 other pharmacy residency programs and is the Interim Assistant Dean for the Virginia Commonwealth University School of Pharmacy-UVA Division. Dr. McCarthy earned her Doctor of Pharmacy degree from Mercer University and completed an ASHP-accredited Drug Information Practice Residency at the University of Pittsburgh. Prior to joining UVA, she was a faculty member at Samford University School of Pharmacy. Awards include 1997 Samford University School of Pharmacy Teacher of the Year, 2003 Virginia Society of Health-System Pharmacists (VSHP) Pharmacist of the Year, 2008 Louis P. Jeffrey Preceptor of the Year, 2015 Distinguished Drug Information Practitioner Award by the American College of Clinical Pharmacy DI PRN, 2018 VCU School of Pharmacy Office of Experiential Education Outstanding Service Award, and 2019 American Association of Colleges of Pharmacy Master Preceptor. She has been the Education Committee Chair, Continuing Education Administrator, and President of VSHP. She served on the ASHP Commission on Credentialing from 2008-2013 including serving as the Chair in 2012 and is a lead contract surveyor for ASHP's Accreditation Services Office.

## University of Virginia Health

The University of Virginia (UVA) Health, located in Charlottesville, Virginia, embodies the leadership and inventiveness personified by its founder, Thomas Jefferson. Two centuries ago in 1819, Jefferson established the nation's 10<sup>th</sup> medical school, which has since grown into a nationally renowned academic medical center committed to providing outstanding patient care, educating tomorrow's health care leaders and discovering better ways to treat disease.

UVA Health received national recognition in the latest *U.S. News & World Report* "Best Hospitals" guide with 9 adult and 6 pediatric medical specialties recognized in 2019. For the fourth consecutive year UVA Medical Center is ranked as the number one hospital in Virginia. UVA Medical Center has received Magnet® recognition from the American Nurses Credentialing Center (ANCC) for its quality patient care, excellence in nursing care and innovative nursing practices.

The University of Virginia Health integrates patient care, health education, research, and public service. UVA Health consists of the following five entities: the University of Virginia Medical Center, the University of Virginia School of Medicine, the University of Virginia School of Nursing, the Claude Moore Health Sciences Library, and the UVA Physicians Group. UVA Medical Center was honored among the 60 top hospitals for diversity.

## The University Community

Charlottesville is a modern, progressive city, filled with old-world elegance and charm, nestled in the foothills of the Blue Ridge Mountains. Charlottesville is famous for its colorful history, distinctive architecture, southern hospitality, and small city sophistication, with an estimated population of 201,599 residing in the greater Charlottesville metro area. Charlottesville has received extensive recognition including: One of America's Best Small Cities for Foodies (Travelocity, 2016), 15 Best Places to Live in the U.S. (#3) (NY Post, 2016), Best Place to Live and Healthiest, Happiest City in the U.S. (#5) (Livability, 2017, The Today Show 2016), Healthiest Small Town in the U.S. (Health Line, 2016), 50 Best College Towns (#7) (College Rank, 2016), Top 100 Best Places to Live (#21) (Livability.com, 2016), #1 Most Beautiful College campus in America (Best College Reviews, 2015).

## The Department of Pharmacy

The Department of Pharmacy has a progressive practice model with clinical pharmacists that provide extensive, decentralized clinical services throughout the health system. These efforts are supported by computerized prescriber order entry, extensive automation services, a state-of-the-art IV room, barcode medication administration, and an integrated electronic health record. Additionally, UVA Health System includes a Medication Use Policy Service, Investigational Drug Services, Outpatient Infusion Centers, a Children's Hospital, as well as pharmacist-run ambulatory clinics, and outpatient retail pharmacies.

### ***Mission***

The UVA Health System Department of Pharmacy Services will provide superlative patient-centered care focused on safe medication practices and innovative education and training.

### ***Vision***

The UVA Health System Pharmacy Department is a vital member of the patient care team dedicated to expanding patient care services and leading initiatives to maximize patient safety and improve outcomes. We are a collaborative group focused on providing superlative patient care in the setting of ongoing professional development by all employees, a productive, innovative work environment in which staff are engaged and motivated, and nationally-recognized clinical services and educational/ training programs.

# PHARMACY RESIDENCY EXCELLENCE AWARDS

## Awards

The UVA PGY1 Pharmacy Residency program has been recognized with the following awards:

- 2017 ASHP Foundation Residency Excellence Program Award
- 2015 ASHP Foundation Residency Expansion Grant (\$40,000)

## Preceptors

UVAHS has a large number of highly qualified and committed preceptors. Preceptor bios can be found on our website.

## PGY1-Pharmacy Residency Application Requirements

Applicants must:

- Be enrolled in or a graduate of an ACPE-accredited advanced pharmacy program
- Be eligible for licensure in the Commonwealth of Virginia and licensed by September 1

Applicants must upload the following to PhORCAS by the specified deadline:

- Curriculum vitae
  - Include completed and anticipated advanced pharmacy practice experience rotations
  - Include leadership and organizational involvement
- Letter of intent
- Official college of pharmacy transcript
- **THREE** references/ letters of recommendation
  - **ALL** references **MUST** be from preceptors able to speak to clinical problem-solving in direct patient care experiences (not classroom)
  - References must comment on the following characteristics:
    - Ability to organize and manage time
    - Ability to work with peers and communicate
    - Clinical problem solving skills
    - Independence and resourcefulness
    - Willingness to accept constructive criticism
    - Professionalism

**Please note:** The UVA Health System Pharmacy Residency Program does not sponsor work visas.

## PGY1-Pharmacy Residency Program Overview

The 2020-2021 UVA Health PGY1-Pharmacy Residency will begin on July 1, 2020 and end on June 30, 2021. All PGY1 residents start in mid-June with the entering medical residents.

Rotations are 5 weeks in duration (except for orientation and the ninth rotation block). Required rotations include: orientation, acute care specialty, ambulatory care, critical care, general medicine, and practice management and policy.

Pharmacy residency policies can be referenced on the UVA pharmacy website at:  
[http://www.medicalcenter.virginia.edu/pharmacy/residency\\_info](http://www.medicalcenter.virginia.edu/pharmacy/residency_info)

### I. PGY1-Pharmacy Residency Rotations

#### Required Rotations

**Orientation-** Rotation through various Pharmacy Department areas to understand the various services provided and includes code response, aseptic technique, and electronic health record training

**Acute Care Specialty-** Rotation in one Acute Care Specialty area (see choices below)

**Critical Care-** Rotation in one of the Critical Care areas (see choices below)

**General Medicine-** Rotation within in one of the medicine services listed below

**Ambulatory Care-** Rotation within the pharmacist-driven ambulatory care clinics

**Practice Management and Policy-** Rotation with the pharmacy leadership and medication use policy teams

#### **Acute Care Specialty**

- Emergency Department
- General Pediatrics
- Hematology/Oncology
- Infectious Diseases
- Pediatric Oncology
- Solid Organ Transplantation
- Stem Cell Transplant
- Women's Health

#### **Critical Care**

- Coronary Care Unit (CCU)
- Medical Intensive Care Unit (MICU)
- Neonatal Intensive Care Unit (NICU)
- Nerancy Neuro Intensive Care Unit (NNICU)
- Pediatric Intensive Care Unit (PICU)
- Surgical Trauma Intensive Care Unit (STICU)
- Thoracic/Cardiovascular Surgery Post-Op (TCVPO)

#### **Ambulatory Care**

- Adult Cardiology
- Adult Internal Medicine
- Family Medicine
- Infectious Diseases
- Transplant Clinic

#### **General Medicine**

- Acute Care Cardiology
- Acute Care Neurology
- Adult Internal Medicine

#### **Other Electives**

- Informatics, Investigational Drug Services Medication Safety

Residents will have up to 19 weeks (three 5 week and one 4 week rotations) available for elective rotations. To maintain compliance with the accreditation standard, no more than 3 rotations can occur in a similar practice area (eg, critical care) and at least 2/3 of the year will be spent in direct patient care learning experiences. Additional rotations may be developed based on resident interest and preceptor availability. Between the fourth and fifth rotation blocks (December), residents will have a mixture of research days and mini-rotations.

**Mini-rotations** are abbreviated experiences (2-5 days in duration) held in December for a total of 5 days. These abbreviated experiences provide residents with exposure to areas in which 1) they do not have a scheduled rotation; 2) they would like repeat experiences beyond their scheduled rotations; or 3) they would like a varied experience beyond their scheduled rotations (ambulatory hematology/ oncology vs. inpatient hematology/ oncology). Additionally, there are select mini-rotations held with services/ departments outside of the pharmacy (ie, nutrition services, toxicology).

## **II. Research Activities**

- a. Completion of a major project is a requirement of the residency. Final reports must be submitted in manuscript style and approved by the Project Advisor and Program Director.
- b. During the first half of the year, residents will work in pairs to complete a Quality Improvement project. Completed projects will be submitted for poster presentation at the Vizient Pharmacy Council meeting held in conjunction with the ASHP Midyear Clinical Meeting

## **III. Presentation Requirements**

- a. Residents are required to provide a platform presentation on the results of their residency research project at the regional residency conference.
- b. Each resident is responsible for presenting one seminar and one technician talk during the course of the residency year. The seminar is ACPE-accredited to provide continuing education (CE) to pharmacists and the tech talk is ACPE-accredited for technician CE.

## **IV. Professional Leave for Meeting Attendance**

- a. Residents will attend the ASHP Annual Midyear Clinical Meeting and the regional residency conference. Base resident stipends were increased to support travel to professional meetings. Residents are responsible for all meeting-related travel expenses using the funds added to the annual stipends.

## **V. Longitudinal Service**

- a. Weekend distributive functions provide necessary training for the resident. The total staffing commitment is 416 hours.
- b. Residents provide service in the distributive/ clinical areas 16 hours every third weekend and a 4 hour evening shift every 10 days. Additionally, residents will work one major holiday (Thanksgiving and the day after, Christmas Eve and Christmas Day, or New Year's Eve and New Year's Day) and the associated weekend.
- c. Over the course of the year, residents work in various areas in the department including IV admixtures, unit dose, and decentralized clinical coverage (medicine or surgery).

## **VI. Certification**

- a. Residents are required to complete ACLS training and certification. This training is offered through the Medical Center at no charge to the resident. Pharmacy residents participate in ACLS training during the orientation period. Residents respond to in house emergency response calls during the residency year.

## **VII. Teaching**

- a. Residents have the option of earning a Teaching and Learning Certificate through UVAHS and Virginia Commonwealth University (VCU) School of Pharmacy.
- b. All residents serve as laboratory teaching assistants and co-preceptor students on clinical rotations.

## **VIII. Advisors**

- a. Each resident is matched with an advisor for the duration of the residency year. Matches are organized by the program director and are based on the career goals, specialty practice area interests, or other interests of the resident. Advisors serve as resources and mentors to the residents.
- b. Residents will also have a primary preceptor for each of their required presentations as well as their quality improvement and research projects. Residents and the program director identify appropriate preceptors for these requirements based on the topic.

**2019-2020 PGY1 Residents**  
**PGY1 Pharmacy Residents**

**Mark Albright**

**Hometown:** Arcanum, OH

**Undergraduate Education:** The Ohio State University; B.S. Pharmaceutical Sciences

**Pharmacy School:** The Ohio State University College of Pharmacy

**Quality Project:** Compliance with a nurse-managed unfractionated heparin nomogram in the setting of direct oral anticoagulant assay interference

**Longitudinal Project:** A comparison of clevidipine and nicardipine for the management of blood pressure in acute aortic dissection in the emergency department

**Other Interests:** Trying new restaurants and breweries in Charlottesville, spending time with friends and family, and cheering on the Buckeyes

**Mackenzie Dolan**

**Hometown:** Cary, NC

**Undergraduate Education:** UNC Chapel Hill; B.A. Biology, Chemistry, Spanish for the Medical Professions

**Pharmacy School:** UNC Eshelman School of Pharmacy

**Quality Project:** The impact of pharmacogenomics testing on psychotropic drug selection at the UVA Health Ryan White HIV Clinic

**Longitudinal Project:** Ceftriaxone utilization in the emergency department at UVA Health

**Other Interests:** Traveling, attending concerts, wakeboarding and staying active, hiking with her pup Carter, and watching UNC basketball and Patriots football.

**Ankit Gandhi**

**Hometown:** Baltimore, MD

**Undergraduate Education:** University of Maryland, College Park; B.S. Microbiology

**Pharmacy School:** University of Maryland School of Pharmacy

**Quality Project:** Evaluation of calculated twenty-four hour area under the concentration-time curve (AUC<sub>24</sub>) values based on vancomycin trough levels for treatment of methicillin-resistant *Staphylococcus aureus* (MRSA) bloodstream infections

**Longitudinal Project:** Tolerability of cefazolin in nafcillin-intolerant patients for the treatment of methicillin-susceptible *Staphylococcus aureus* MSSA infections

**Other Interests:** Exploring local breweries and wineries, hiking with my adorable corgi, and cheering on the Eagles, Terrapins, Nationals and Capitals

**Nikki Griffith**

**Hometown:** Lansdale, PA

**Undergraduate Education:** University of South Carolina

**Pharmacy School:** South Carolina College of Pharmacy, USC Campus

**Quality Project:** Evaluation of calculated twenty-four hour area under the concentration-time curve values (AUC<sub>24</sub>) based on vancomycin trough levels for treatment of methicillin-resistant *Staphylococcus aureus* (MRSA) bloodstream infections

**Longitudinal Project:** An evaluation of the obtainment and treatment of urinalyses and urine cultures in multiple sclerosis patients

**Other interests:** Spending time with family and friends, exploring Charlottesville's many restaurants and breweries, reading

**Caroline Jones**

**Hometown:** Townsend, VA

**Undergraduate Education:** Wofford College; B.S. Biology

**Pharmacy School:** Virginia Commonwealth University School of Pharmacy

**Quality Project:** CMV reactivation rates and risk factors associated with reactivation in allogeneic hematopoietic stem cell transplant patients at UVA Health

**Longitudinal Project:** Opinions and practices regarding medical cannabis among oncology clinicians in Virginia

**Other Interests:** Spending time with family and friends, traveling, spending time by the water, and exploring Charlottesville and its many restaurants, wineries, and breweries.

**Millie Thomas**

**Hometown:** Asheville, NC

**Undergraduate Education:** The College of Charleston; B.S Biology

**Pharmacy School:** Medical University of South Carolina College of Pharmacy

**Quality Project:** Compliance with a nurse-managed unfractionated heparin nomogram in the setting of direct oral anticoagulant assay interference

**Longitudinal Project:** Safety and efficacy of DOACs in patients with moderate to severe hepatic cirrhosis

**Other Interests:** Spending time with family and friends, enjoying the outdoors, running, hiking, and attempting to garden

**Shelby Warring**

**Hometown:** Mechanicsville, MD

**Undergraduate Education:** University of Maryland, College Park; B.S. Nutritional Science

**Pharmacy School:** University of Maryland School of Pharmacy

**Quality Project:** Assessment of compliance to opioid contract policy at UVA family medicine clinics

**Longitudinal Project:** Impact of predicted twenty-four hour area under the concentration-time curve (AUC) to MIC of vancomycin on clinical outcomes of acute pulmonary exacerbations in pediatric cystic fibrosis patients

**Other Interests:** Cooking, eating, anything that involves the beach or water, and cheering on my favorite DC sports teams!

**Melissa West**

**Hometown:** Huntsville, AL

**Undergraduate Education:** Auburn University; B.S. Biomedical Science

**Pharmacy School:** Auburn University Harrison School of Pharmacy

**Quality Project:** CMV reactivation rates and risk factors associated with reactivation in allogeneic hematopoietic stem cell transplant patients at UVA Health

**Longitudinal Project:** Analyzing the effect if CFTR modulator therapy on growth and nutritional status in CF patients at UVA Children's

**Other Interests:** Getting outside, hiking, exploring C'ville farmers markets, traveling, cheering on the Auburn Tigers (War Eagle!), and spending time with family and friends

**PGY1-Health System Pharmacy Administration and Leadership Residents****Clarissa Cho**

**Hometown:** Woodbridge, VA

**Undergraduate Education:** University of Virginia; B.A. Linguistics

**Pharmacy School:** Virginia Commonwealth University School of Pharmacy

**Quality Project:** The impact of pharmacogenomic testing on psychotropic drug selection at the UVA Health Ryan White HIV Clinic

**Longitudinal Project:** Impact of Incorporating Pharmacist counseling into a Bundle Intervention for Naloxone Prescribing from the Emergency Department

**Other Interests:** Quality time with friends and family, exploring new foods, sipping on my morning coffee, visiting wineries, hiking, and cheering on the Hoos and #HTTR

**J Cameron Crowe**

**Hometown:** Ann Arbor, MI

**Undergraduate Education:** Central Michigan University; B.S. Biomedical Sciences

**Pharmacy School:** University of Tennessee Health Science Center College of Pharmacy

**Quality Project:** Assessment of compliance to opioid contract policy at UVA family medicine clinics

**Longitudinal Project:** Evaluation of select characteristics in patients with urine culture positivity within subgroups of multiple sclerosis

**Other Interests:** Spending time with friends, experiencing new places, food and beer, watching sports and cheering on the Detroit Red Wings, Lions, Tigers, Pistons and University of Tennessee Volunteers

**PGY1-Community Based Pharmacy Resident**

**Resident:** Kayla Ryan

**Hometown:** Springfield, MA

**Undergraduate Education:** Western New England University; B.S. Biology

**Pharmacy School:** Appalachian College of Pharmacy

**Quality Project:** Identifying insulin-related issues following disposition in patients enrolled in Interactive Home Monitoring program

**Longitudinal Project:** Identifying infectious disease trends of refugees and special immigrant patients during first year of resettlement

**Other Interests:** Traveling, hiking, painting, visiting local wineries, and hanging out with my golden retriever, Sophie

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