Program Description
The University of Missouri Health Care postgraduate year one (PGY1) residency program will facilitate the development of educators and leaders in pharmacy practice. The program is accredited by the American Society of Health-System Pharmacists (ASHP). Our graduates will demonstrate excellence in direct patient care and medication use systems enabling them to confidently pursue their desired area of practice.

PGY1 Program Purpose
PGY1 pharmacy residency programs build 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 (PGY2) pharmacy residency training.

Program Goals
Upon successful completion of the University of Missouri Health Care PGY1 Pharmacy residency program, a participant will:

• be a competent and confident practitioner of patient care in multiple environments.

• demonstrate skill in educating pharmacists, other health care professionals and patients drug-related topics.

• exhibit professional maturity by following a personal philosophy of practice, adhering to the highest professional values.

• possess skills in critical thinking, capable of analysis of complex problems and independent decision-making as well as objectively evaluating his or her own performance.

2016-2017 PGY1 Pharmacy Residents

Stephanie Hipp, PharmD
PharmD: University of Kansas, Lawrence, KS
Email: hipps@health.missouri.edu

Cora Housely, PharmD
PharmD: University of Arkansas for Medical Sciences, Little Rock, AR
Email: housleyc@health.missouri.edu

Jennifer Wiederrich, PharmD
PharmD: University of Missouri - Kansas City, Kansas City, MO
Email: wiederrichj@health.missouri.edu
Resident Activities

University of Missouri Health Care’s pharmacy residents participate in various educational and service activities throughout the year.

Resident Major Project
Residents are responsible for designing, developing and completing a yearlong research project. Residents should aim for their research projects to contribute to the profession of pharmacy, benefit University of Missouri Health Care’s pharmacy department and be suitable for publication. A preceptor co-investigator will provide guidance and feedback to each resident.

Additionally, the major project will be presented as a PowerPoint presentation at the Midwest Pharmacy Residents Conference.

Poster Presentations
Residents will be required to present a project in poster format at the Vizient University Health System Consortium annual pharmacy meeting and the Missouri Society of Health-System Pharmacists (MSHP) annual spring meeting.

Resident Presentations
During the residency year, each resident will present at least one of each of the following to our pharmacy and/or medical staff: journal club, formal patient case, formal seminar/grand rounds presentation.

Committees
Each resident will be assigned to at least two multidisciplinary committees. Possible committees include: Pharmacy and Therapeutics, ICU Oversight, Stroke, Antimicrobial Stewardship and Medication Utilization Safety Improvement Committee.

Teaching Responsibilities
Residents will have the opportunity to:

• participate in the University of Missouri-Kansas City School of Pharmacy resident teaching certificate program.
• teach and coprecept pharmacy students from various pharmacy schools throughout the Midwest.
• participate as a discussion leader in a multidisciplinary class sponsored by the University of Missouri’s School of Medicine.

Service Commitment
The residents will staff the central pharmacy every fourth weekend (Friday, Saturday, and Sunday) and one four-hour shift each week.

Travel
Residents will attend the ASHP Midyear Clinical Meeting, MSHP Spring Meeting and Midwest Pharmacy Residents Conference.

Life Support Classes
Residents will complete BLS and ACLS classes on campus during their residency year.

Quality Improvement Project
Each resident will participate in at least one quality improvement project. This project may be related to major research project, medication use evaluation project, or other project based on need of the department or health system.

Medication Use Evaluation
Each resident will be required to complete a medication use evaluation.
Resident Salary and Benefits

**SALARY $47,476**

**Health, Dental and Vision Insurance**
Residents are eligible for enrollment in the University of Missouri health, dental and vision insurance programs. Coverage starts on the first day of employment if enrollment forms are received within 30 days of the date of hire.

**Other Insurance**
Life insurance, long-term disability insurance, accidental death and dismemberment insurance, and long-term care insurance are all available upon employment.

**University and Employee Discounts**
Discounts are available for employees at University of Missouri Health Care’s cafeterias and pharmacies, the MU Student Recreation Center, the Mizzou Store and University-sponsored sporting and cultural events.

**Travel Funding**
Pending approval by administration, residents will be provided travel expenses to attend the:

- American Society of Health-system Pharmacists (ASHP) Midyear Clinical Meeting
- Missouri Society of Health-System Pharmacists (MSHP) Spring Meeting
- Midwest Pharmacy Residents Conference

**Vacation, Personal and Sick days**
A total of 21 days of paid time off are provided during the residency year. These days can be used for vacation, personal and sick days.

**Holidays**
Each resident is required to work two holiday shifts during the course of the residency year. These holidays include Martin Luther King Jr. Day, Memorial Day, Thanksgiving, the day after Thanksgiving, Christmas and New Year’s Day. Residents will not be required to work Independence Day and Labor Day.

**Support Services**
Residents will be provided office space, copying privileges and laptop computers to use during the residency year. Residents will have access to online and print references through the pharmacy department and the University of Missouri’s J. Otto Lottes Health Sciences Library. Drug information services are provided through the UMKC-School of Pharmacy Drug Information Center.

**Licensure**
Pharmacist licensure with the Missouri Board of Pharmacy (including a Medication Therapy Services certificate) should be obtained as soon as possible upon matching to the program and should be obtained by September 1 of the residency year. If pharmacist licensure is not obtained by October 31, then the resident will be dismissed from the program. The resident must have a pharmacy technician, pharmacy intern or pharmacist license with the Missouri Board of Pharmacy on the first day of employment.
Eligibility Requirements
Applicants must be graduates of an Accreditation Council for Pharmacy Education-accredited pharmacy program with a Doctor of Pharmacy degree, and licensed or eligible for pharmacist licensure in the state of Missouri. All new hires undergo pre-employment drug screenings. Beginning January 1, 2015, University of Missouri Health Care will only hire nicotine-free individuals.

The applicant must provide:
- letter of intent
- curriculum vitae
- official pharmacy school transcript
- three written letters of recommendation

To Apply
Application submission is through the Pharmacy Online Residency Centralized Application Service (PhORCAS).

Residency positions are filled according to the rules of the National Matching Service (NMS).

An on-site interview is required.

Program Mailing Address
PGY1 Pharmacy Residency Program
University of Missouri Health Care
Pharmacy Services
One Hospital Dr., DC060.00
Columbia, MO 65212

FOR MORE INFORMATION or questions about the PGY1 Pharmacy Residency Program, please contact:

Laura Butkievich, PharmD, BCPS
PGY1 Residency Program Director
Phone: (573) 882-8627
E-mail: butkievichl@health.missouri.edu

Jordan Anderson, PharmD, BCPS
Residency Programs Coordinator
Email: andersonjord@health.missouri.edu

Or visit our residency webpage at www.muhealth.org/pharmacyresidency
University of Missouri Health Care provides highly specialized, multidisciplinary care to patients from every county in the state. MU Health Care’s expert physicians and staff at multiple hospitals and clinics care for patients with the most severe illnesses and injuries.

Learn more online at www.muhealth.org.

**Facilities**
- Ellis Fischel Cancer Center
- Missouri Orthopaedic Institute
- Missouri Psychiatric Center
- University Hospital and Clinics
- Women’s and Children’s Hospital

**Outpatient Pharmacy Locations**
- Mizzou Pharmacy - Ellis Fischel
- Mizzou Pharmacy - Fairview
- Mizzou Pharmacy - Hitt Street
- Mizzou Pharmacy - Keene Street
- Mizzou Pharmacy - Missouri Orthopaedic Institute
- Mizzou Pharmacy - MU Student Center
- Mizzou Pharmacy - Smiley Lane
- Mizzou Pharmacy - South Providence
- Mizzou Pharmacy - University Hospital

**Pharmacy Services**
- Vancomycin and Aminoglycoside Dosing Service
- Anticoagulation clinic (outpatient phone service and point-of-care clinic)
- Pharmacy medication history service

**Technology**
- Cerner software/applications
- Automated dispensing cabinets
- Bedside barcode medication administration
- Electronic medication administration record (EMAR)
- Computerized provider order entry (CPOE)
- Aesynt MedCarousel

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**By the Numbers - Fiscal Year 2016**

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<thead>
<tr>
<th>Staffed beds</th>
<th>Intensive Care (including step-down)</th>
<th>144</th>
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<tbody>
<tr>
<td></td>
<td>Acute care</td>
<td>425</td>
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<tr>
<td><strong>TOTAL BEDS</strong></td>
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<td>569</td>
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<tr>
<th>Human resources</th>
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<tbody>
<tr>
<td>Active medical staff</td>
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<tr>
<td>Other staff</td>
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<table>
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<tr>
<th>Patient services</th>
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<tbody>
<tr>
<td>Patients transported by helicopter</td>
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<tr>
<td>Births</td>
</tr>
<tr>
<td>Cardiac catheterization procedures</td>
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<tr>
<td>Major surgical operations</td>
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<tr>
<td>Patient admissions</td>
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<tr>
<td>Emergency and trauma center visits</td>
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<tr>
<td>Patient days of care</td>
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<tr>
<td>Radiologic exams and treatments</td>
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<tr>
<td>Clinic visits (all sites)</td>
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<tr>
<td>Laboratory tests</td>
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<tr>
<td>Pharmacy orders</td>
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<table>
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<tr>
<th>Pharmacy (measured by full-time equivalency)</th>
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<tbody>
<tr>
<td>Inpatient pharmacists</td>
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<tr>
<td>Outpatient pharmacists</td>
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<tr>
<td><strong>Total pharmacists</strong></td>
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<tr>
<td>Inpatient technicians</td>
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<tr>
<td>Outpatient technicians</td>
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<tr>
<td><strong>Total technicians</strong></td>
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<table>
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<tr>
<th>Management Team</th>
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<tbody>
<tr>
<td>Support staff</td>
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<tr>
<td>Management Team</td>
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<tr>
<td>Residents</td>
</tr>
</tbody>
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MU Health Care Pride Points

- University of Missouri Health includes MU Health Care, the clinical operation, as well as MU’s School of Health Professions, School of Medicine, Sinclair School of Nursing and University Physicians.

- University Physicians is mid-Missouri’s largest multi-specialty group, with more than 500 physicians trained in 80 specialties and subspecialties.

- Our flagship hospital, University Hospital, celebrated 60 years in operation in 2016. It opened its doors on Sept. 16, 1956.

- University Hospital is mid-Missouri’s only Level I trauma center, providing medical coverage for major traumas around the clock.

- University physicians were the first in mid-Missouri to perform open-heart surgery (1958), first to perform cardiac catheterization (1967), first to perform the world’s first aortic valvuloplasty to correct aortic valve stenosis in neonates (1982), and the first to offer cardiac ablation and many other innovative forms of therapy.

- University Hospital’s stroke program is certified as an Advanced Primary Stroke Center by the Joint Commission.

- University of Missouri Women’s and Children’s Hospital provides the region’s most comprehensive services for women and newborns. The hospital has been designated a Baby-Friendly® facility and is a leader in low-intervention delivery practices. It has two certified nurse midwives on staff.

- Ellis Fischel Cancer Center opened in 1940 as the first state cancer hospital west of the Mississippi River and only the second one in the nation. In 2014, Ellis Fischel became the first academic certified member of MD Anderson Cancer Network®, a program of The University of Texas MD Anderson Cancer Center.

- The Missouri Orthopaedic Institute, which opened in 2010, is central Missouri’s largest freestanding orthopaedic center, as well as the region’s most comprehensive orthopaedic surgery center. More than 30 physicians specialize in every aspect of the musculoskeletal system. U.S. News and World Report ranked the orthopaedics program as a high-performing specialty in 2016-2017.

- The MU Children’s Hospital provides the most comprehensive neonatal intensive care unit in mid-Missouri and the region’s only pediatric ambulance service.

- University of Missouri Health Care is ranked among the 12 top performing academic medical centers in the University Health System Consortium’s 2014 Quality and Accountability Study for delivering high-quality, safe, efficient, patient-centered and equitable care.

- University of Missouri Health Care has been recognized for the sixth consecutive year as one of the nation’s “Most Wired” health systems, according to the 2016 Most Wired Survey. The survey was released by the American Hospital Association’s Health Forum.

- MU Health Care received the 2015 Global HIMSS Enterprise Nicholas E. Davies Award of Excellence for health care technology innovations that are improving patient outcomes.
Living in Columbia

Columbia has consistently been rated as one of the most desirable places to live in the United States.

Located halfway between St. Louis and Kansas City and 30 miles from the state capital in Jefferson City, Columbia boasts affordable housing, a moderate cost of living, diverse cultural and economic opportunities and excellent public schools.

Most people who have chosen to live in this college town of approximately 100,000 residents think of it as the best of both worlds — small-town convenience and warmth with big city amenities.

Recreational opportunities abound. More than 3,000 acres of state park lands are located within 10 miles of Columbia. The city itself offers more than 40 public parks and two state parks. Joggers, walkers and bikers can frequent numerous hiking trails, such as the MKT Trail, an urban walkway that connects the Katy Trail State Park. Scenic lakes and streams that are ideal for boating and fishing — including the Lake of the Ozarks, one of the largest recreation areas in the Midwest — are just a short drive away.

For the sports enthusiast, the University offers Southeastern Conference sports. Columbia also is home to the Show-Me State Games, an annual Olympic-style event for kids and adults. In addition to the University of Missouri, Columbia is home to both Stephens College and Columbia College. These three institutions provide numerous venues for adult learning and the arts.
Our Clinical Faculty and Staff

University of Missouri Health Care Pharmacy Preceptors (continued on next page)

Brad Myers, PharmD, MBA, BCPS
Director of Pharmacy Services
PharmD: University of North Carolina, Chapel Hill, NC
Pharmacy Residency: Columbus Regional Healthcare Medical Center, Columbus, GA
MBA: American Public University System, Manassas, VA

Joe Cameron, PharmD, BCPS
Infectious Disease
BS Biology: Lincoln University, Jefferson City, MO
PharmD: University of Missouri, Kansas City, MO
Pharmacy Residency: University of Missouri Health Care, Columbia, MO

Laura Butkievich, PharmD, BCPS
System Pharmacy Clinical Manager
PGY1 Residency Program Director
BA Biology: University of Missouri, Columbia, MO
PharmD: St. Louis College of Pharmacy, St. Louis, MO
Pharmacy Residency: University of Missouri Health Care, Columbia, MO
Internal Medicine Residency: St. Luke’s Hospital, Chesterfield, MO

Austin Campbell, PharmD, BCPP
Psychiatry
PharmD: University of Missouri, Kansas City, MO
Pharmacy Residency: Kansas City VA Medical Center, Kansas City, MO
Psychiatric Pharmacy Residency: Center for Behavioral Medicine, Kansas City, MO

Jordan Anderson, PharmD, BCPS
Residency Programs Coordinator
Pediatric Intensive Care/Pediatrics
PharmD: University of Missouri-Kansas City, satellite campus in Columbia, MO
Pharmacy Residency: Kosair Children’s Hospital, Louisville, KY
Critical Care Residency: Kosair Children’s Hospital, Louisville, KY

Kelly Cochran, PharmD, BCPS
Ambulatory Care (Internal Medicine)
PharmD: Butler University, Indianapolis, IN
Pharmacy Residency: University of Iowa Hospitals and Clinics, Iowa City, IA
Ambulatory Care Residency: University of Illinois at Chicago College of Pharmacy and Medical Center, Chicago, IL

Ashley Ausmus, PharmD, BCPS
Neurosciences Intensive Care/Neurology
PharmD: University of Missouri, Kansas City, MO
Pharmacy Residency: Truman Medical Center at Hospital Hill, Kansas City, MO
Internal Medicine Residency: University of Missouri Health Care, Columbia, MO

Drew Jett, PharmD, BCPS
Inpatient Pharmacy Supervisor (University Hospital) Staffing
PharmD: St. Louis College of Pharmacy, St. Louis, MO
Pharmacy Residency: John Cochran VA Medical Center, St. Louis, MO

Starr Bedy, PharmD, BCPS
Emergency Medicine
PharmD: University of Florida, Jacksonville, FL
Pharmacy Residency: Medical College of Georgia Health System and University of Georgia College of Pharmacy, Augusta, GA
Emergency Medicine Residency: The Ohio State University Medical Center, Columbus, OH

Kara Goddard, PharmD, BCPS
Emergency Medicine
BS Biology: University of Tennessee-Martin, Martin, TN
PharmD: University of Tennessee Health Science Center College of Pharmacy, Memphis and Knoxville, TN
Pharmacy Residency: Grady Health System, Atlanta, GA
Critical Care Residency: Grady Health System, Atlanta, GA

Ryan Camden, PharmD, BCPS
Internal Medicine
PGY2 Residency Program Director
PharmD: St. Louis College of Pharmacy, St. Louis, MO
Pharmacy Residency: John Cochran VA Medical Center, St. Louis, MO
Internal Medicine Residency: John Cochran VA Medical Center in St. Louis, MO
Our Clinical Faculty and Staff

University of Missouri Health Care Pharmacy Preceptors (continued)

Jacob Kettle, PharmD, BCOP
Hematology/Oncology
PharmD: University of Missouri-Kansas City, MO
Pharmacy Residency: Kansas City VA Medical Center, MO
Hematology and Oncology Residency: University of Kansas Medical Center, Kansas City, KS

Dominick Salvatore, PharmD, BCPS
Internal Medicine
PharmD: St. Louis College of Pharmacy
Pharmacy Residency: St. Mary’s Health Center, St. Louis, MO
Internal Medicine Residency: University of Oklahoma College of Pharmacy, Oklahoma City, OK

Erica Ottis, PharmD, BCPS
Internal Medicine
PharmD: St. Louis College of Pharmacy, St. Louis, MO
Pharmacy Residency: The Regional Medical Center at Memphis, TN

David Wolfrath, PharmD, MS
Inpatient Pharmacy Manager (University Hospital)
PharmD: University of Florida, Gainesville, FL
Pharmacy Residency: Saint Joseph’s Hospital, Tampa, FL
Administrative Residency: University of Wisconsin Hospital & Clinics, Madison, WI
M.S. Health System Pharmacy Administration: University of Wisconsin School of Pharmacy, Madison, WI

Erin Martin, PharmD, BCPS
Newborn Intensive Care/Pediatrics
PharmD: University of Missouri-Kansas City, MO
Pharmacy Residency: Saint Louis University Hospital, St. Louis, MO
Pediatric Pharmacy Residency: University of Oklahoma College of Pharmacy, Oklahoma City, OK

Tom Sandifer, PharmD, BCPS
Anticoagulation
PharmD: St. Louis College of Pharmacy
Pharmacy Residency: University of Arkansas for Medical Sciences

Kristin Thorne, PharmD
PharmD: St. Louis College of Pharmacy
Pharmacy Residency: University of Arkansas for Medical Sciences

Shannon Ludwig, PharmD, BCPS
Family Medicine
PharmD: University of Iowa, Iowa City, IA
Pharmacy Residency: University of Missouri Health Care, Columbia, MO
Internal Medicine Residency: St. Luke’s Hospital, Chesterfield, MO

Jennifer Thompson, PharmD, BCPS
Trauma and Surgical Intensive Care
BS Biology and Psychology: University of Illinois at Urbana-Champaign
PharmD: University of Illinois at Chicago
Pharmacy Residency: Barnes-Jewish Hospital, St. Louis, MO
Critical Care Residency: Barnes-Jewish Hospital, St. Louis, MO

Namrita Trivedi, PharmD
Cardiology
PharmD: St. Louis College of Pharmacy, St. Louis, MO
Pharmacy Residency: Centra Health, Lynchburg, VA
Internal Medicine Residency: St. Luke’s Hospital, Chesterfield, MO

Jacob Kettle, PharmD, BCOP
Hematology/Oncology
PharmD: University of Missouri-Kansas City, MO
Pharmacy Residency: Kansas City VA Medical Center, MO
Hematology and Oncology Residency: University of Kansas Medical Center, Kansas City, KS

Chad Maness, PharmD
Orientation
PharmD: University of Missouri-Kansas City, satellite campus in Columbia
Pharmacy Residency: Truman Medical Center, Kansas City, MO

Tom Sandifer, PharmD, BCPS
Anticoagulation
PharmD: St. Louis College of Pharmacy
Pharmacy Residency: University of Arkansas for Medical Sciences

Jennifer Thompson, PharmD, BCPS
Trauma and Surgical Intensive Care
BS Biology and Psychology: University of Illinois at Urbana-Champaign
PharmD: University of Illinois at Chicago
Pharmacy Residency: Barnes-Jewish Hospital, St. Louis, MO
Critical Care Residency: Barnes-Jewish Hospital, St. Louis, MO

Namrita Trivedi, PharmD
Cardiology
PharmD: St. Louis College of Pharmacy, St. Louis, MO
Pharmacy Residency: Centra Health, Lynchburg, VA
Internal Medicine Residency: St. Luke’s Hospital, Chesterfield, MO

David Wolfrath, PharmD, MS
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PharmD: University of Florida, Gainesville, FL
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Shannon Ludwig, PharmD, BCPS
Family Medicine
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Pharmacy Residency: University of Missouri Health Care, Columbia, MO
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Inpatient Pharmacy Manager (University Hospital)
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Administrative Residency: University of Wisconsin Hospital & Clinics, Madison, WI
M.S. Health System Pharmacy Administration: University of Wisconsin School of Pharmacy, Madison, WI

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PharmD: University of Missouri-Kansas City, MO
Pharmacy Residency: Kansas City VA Medical Center, MO
Hematology and Oncology Residency: University of Kansas Medical Center, Kansas City, KS

Erica Ottis, PharmD, BCPS
Internal Medicine
PharmD: St. Louis College of Pharmacy, St. Louis, MO
Pharmacy Residency: The Regional Medical Center at Memphis, TN