



PHARMACY

ANNUAL REPORT

2024



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Chief Pharmacy Officer & System Vice President

Welcome everyone to the 2024 Department of Pharmacy Annual Report. In the following pages you will find a description of the activities and accomplishments for each of our service lines at WVUH and the Pharmacy Enterprise over the past year. We are in the midst of wrapping up our 2023-2025 strategic plan / initiatives and moving forward with building out our next 3-year strategic plan that will guide us as we move forward. We will be presenting out the results of our strategic initiatives for 2025 over the course of the year at our departmental meetings.

I continue to be very proud and humbled by the work we do to improve the lives of West Virginians and all we service. As we move into the next 10 years at WVU Medicine we will be guided by our new WVU Medicine 2035 Strategic Plan. Our mission will remain the same to serve through excellence in patient care, research and education. The 4 Pillars will include-

- Offer a complete and integrated continuum of care across our service area
- Be an exceptional place to work and practice
- Deliver superior access, care, and experience to all we serve
- Become the national leader in rural population health management

I encourage each of you to take some time to read through the FY24 annual report and celebrate the accomplishments of our department and your peers. We will continue to face challenges in the very rapidly changing health care environment. I know that through our collective efforts, collaboration, and focus on the strategic priorities we will be successful in providing the best care and service to our patients.

I greatly appreciate the efforts and the care provided by each and every one of you. I am looking forward to what we can accomplish in 2025!

Key Accomplishments

- Opening the Pharmacy Consolidated Service Center at the Innovation Corporation
- Transitioned Omnicell restock model to reduce stockouts by 40%
- Finalized construction plans for expansion of pharmacy services at Fairmont Medical Center
- Order set management and revisions from our adult clinical teams
- First dose of a new gene therapy Muscular Dystrophy administered at Children's
- Omnicell inventory management program implemented in MBRCC with a net 300K savings
- Addition of Lead Drug Diversion Coordinator at the System level
- Expansion of clinical services into the ambulatory clinics
- 295 APPE rotations, 24 IPPE rotations with 91 students from WVU
- Implementation of Dr. First to aid in improving the accuracy of medication histories
- Significant increases in volumes in our outpatient, specialty, and home infusion pharmacies
- Continued growth in our OPAT and CoPAT programs



Warmest regards,

A handwritten signature in black ink that reads "Todd Karpinski".

Todd Karpinski, PharmD, MS, FASHP, FACHE
Chief Pharmacy Officer
West Virginia University Health System

Our Mission

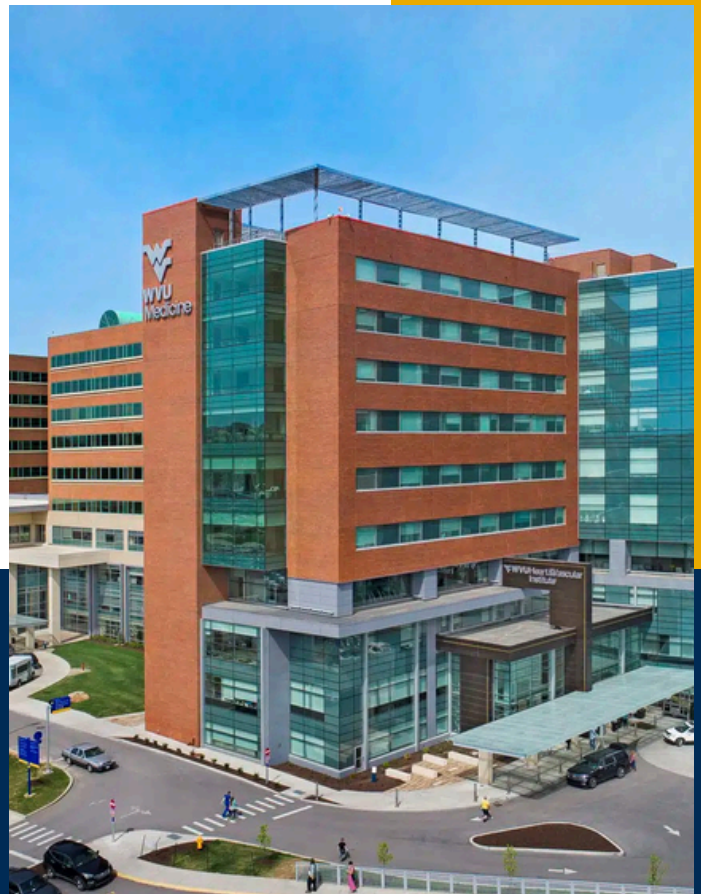
WVU Medicine Pharmacy will provide safe, high quality, and affordable patient centered care to improve the health of West Virginians and all we serve.

Our Values

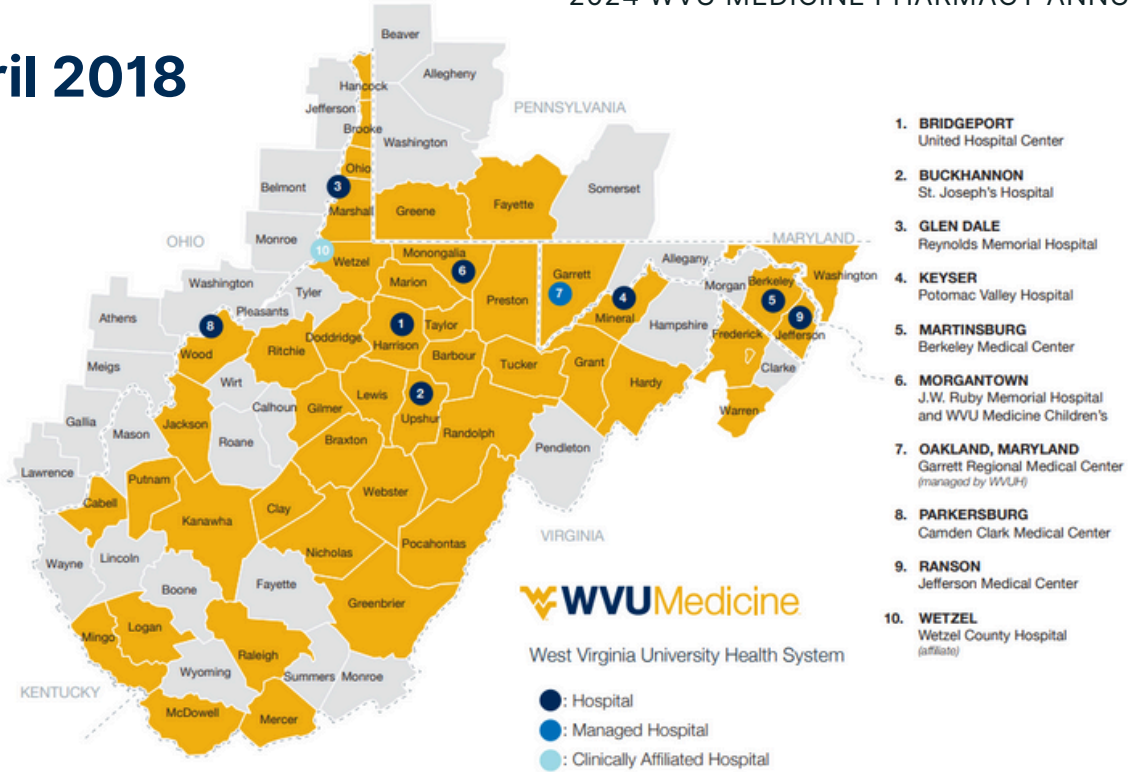
Provide Safe and Efficient Care
Be Employee Focused
Drive Financial Performance
Educate and Innovate
Improve Quality of Patient Care

Our Vision

WVU Medicine Pharmacy will be the most employee focused pharmacy delivering the best patient care.

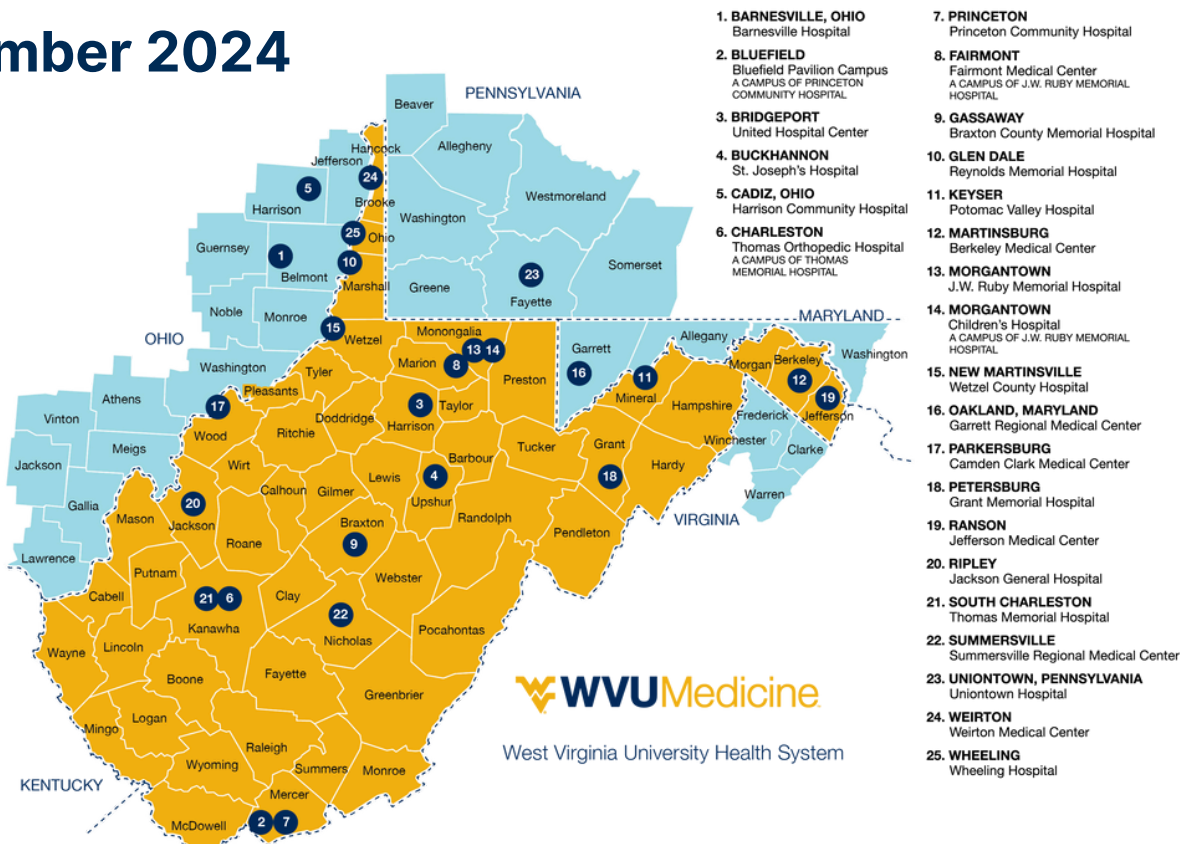


April 2018



WVU Medicine Health System Growth

December 2024



Strategic Plan Executive Summary

January 1, 2023 -
December 31, 2025

Provide safe and effective care

- Further enhance processes with medication reconciliation, patient and caregiver education, medication acquisition assistance, and post-discharge follow-up

Improve clinical quality of care

- Centralize prior authorizations for Inpatient, Ambulatory, Retail, and Specialty spaces (Appeals/Denials, Use of technology, Patient Assistance)
- Expand telehealth services and billing for pharmacist services
- Grow clinical programs across WVUHS

Be employee focused

- Create career ladder analyses for pharmacists, technicians, and other non-pharmacist positions
- Develop technician pay grades and scales
- Establish formal technician engagement program
- Ensure communication of goals and initiatives shared across Divisions

Educate and innovate

- Build and expand on pharmacy technician education program

Improve financial performance

- Increase capture of specialty medications, home infusion and retail capture
- Launch Centralized Service Center to service health system
- Utilize internal and external benchmarking to reduce clinical utilization variation across the system to decrease practice variation (Standardize EPIC tools, acuity scoring)

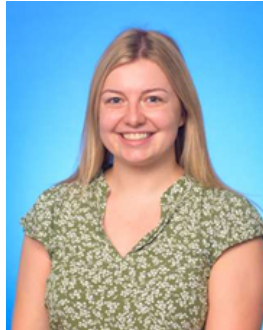
WVU Hospitals & Clinics Employee of the Month

January



Linda James

February



Layne Mazezka,
PharmD, BCPPS

March



Leno Abraham,
PharmD

April



Lauren Kunkel,
PharmD, BCCP

May



Kim Chaffee,
CPhT

June



Chaylon Harris,
CPhT

July



Brooke Ebbert,
PharmD, BCOP

August



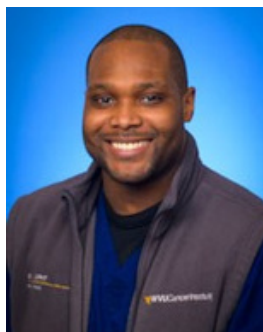
Mihael
Kyriakopoulos,
PharmD

September



Amanda Jo
Shigle, PharmD,
BCCCP

October



Jonathan Ellis,
CPhT

November



Michael Bryan,
CPhT

December



Phattrakorn (Pi)
Powan,
Pharmacy Intern

The program was started in 2023 to recognize Department of Pharmacy team members for their exceptional service. Rolling nominations may be submitted by any pharmacy employee, and one nominee is selected on a monthly basis by the Pharmacy Administration team.

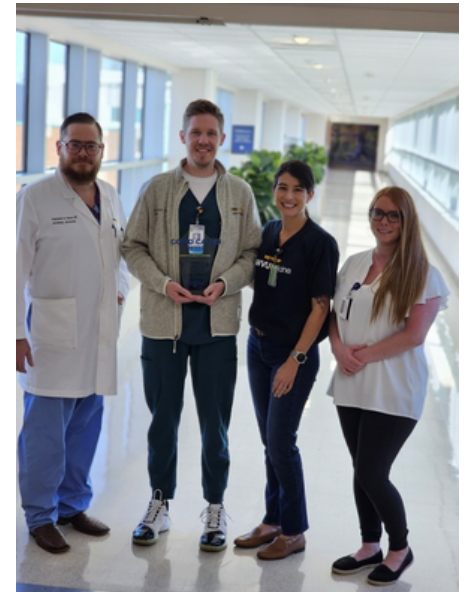


December 2024 Good Catch Award

Two IVR technicians preparing an IV antibiotic product identified a critical error involving a reconstituted Zosyn 40.5-gram vial. The vial had been incorrectly reconstituted earlier in the day with 100mL of diluent, and the label indicated a final concentration of 100mg/mL. However, this was identified to be mathematically incorrect, as 100mL of diluent would result in a final concentration of 405mg/mL. Recognizing this discrepancy, these technicians promptly reported the error to their supervisor. The supervisor immediately instructed the nurse to withhold administration of the dose, preventing a potential medication error. Thank you for displaying the high reliability principle of “preoccupation with failure,” where your vigilance and attention to detail caught an error prior to reaching the patient.

August 2024 Good Catch Award

Connor Digman made a critical catch during the transition of care for a patient with a history of mechanical valve replacement, who had been admitted due to gastrointestinal bleeding associated with an elevated INR greater than 10. Following the next several days without anticoagulation therapy, the INR subsequently decreased, prompting the physician team to restart enoxaparin at a dose of 130mg twice daily. Upon medication reconciliation, the pharmacist observed that the patient had previously been prescribed 100mg twice daily in preparation for an upcoming procedure. When further investigating this, he noted multiple discrepancies in the patient’s documented weights during his admission. A new weight was requested from the MICU staff, which led the enoxaparin dose to be appropriately adjusted to 100mg twice daily. This pharmacist also further clarified this dose with the patient’s outpatient anticoagulation clinic, ensuring accuracy.



Kimberly Bowsher was presented her WVUH Great Catch Award at the 2024 Bravo Annual Awards Ceremony!

Heather Stocking was presented the Children’s Hospital Do No Harm Award at the 2024 Bravo Annual Awards Ceremony!

WVU Medicine WVU Hospitals & Clinics



Daniel O'Neil,
PharmD, MS, FASHP
Assistant Vice President,
WVU Hospitals & Clinics

Ambulatory and Transitions of Care

Fairmont Medical Center

Children's Hospital

J.W. Ruby Memorial Hospital

Medication Safety & Compliance

Oncology & Investigational Drug Services



WVU Hospitals & Clinics

Antithrombotic Stewardship

The Antithrombotic Stewardship Program (ATS), entering its 4th year, is dedicated to enhancing the safety and quality of antithrombotic use across the continuum of care at WVU hospitals. This team is multidisciplinary comprised of two clinical specialist pharmacists, one clinical pharmacy technician, two quality nurse specialists, and is overseen by a physician medical director. The team works collaboratively with patients, clinical pharmacists, and medical staff to positively impact the safe and effective utilization of antithrombotic medications and achieve optimal patient outcomes while minimizing harm.

Pharmacist-to-dose Protocol Impact on Patient Encounters with an INR \geq 5	2024
All services mean patient encounters with INR \geq 5	9.9%
No Pharmacist-to-Dose Protocol	16.3%
Pharmacist to Dose Protocol	6.6%

- The ATS Clinical Pharmacy technician documented a total of 744 patients reviewed on newly started oral anticoagulants
 - Each patient was assessed for cost and affordability, prescription transcription, and if the medication was picked up after discharge
 - 166 patients were provided a warfarin education booklet at the bedside
- Over 250 ATS Clinical Pharmacist interventions were documented for the optimization of therapy with anticoagulation including: DOACs, warfarin, VTE prophylaxis, anticoagulation reversal, and lab monitoring
 - Patients were identified by the team's Epic Alert Scoring Tool, for which the pharmacists reviewed greater than 7800 alerts for the year
 - Additionally, ATS pharmacists were able to provide transitions of care (TOC) assistance for 132 patients identified during their clinical review
- Since the inception of the Pharmacist to Dose Warfarin (PTD) protocol in January 2023, the ATS pharmacists continue monitor PTD service performance and provide support as necessary
 - Percent pharmacist managed warfarin regimens by visit: 68.6%
 - Overall rate of INR \geq 5 hospital-wide: 9.9%
 - Rate of INR \geq 5 when managed by pharmacists: 6.6%
 - Rate of INR \geq 5 when not managed by pharmacists: 16.3%
- ATS Clinical Pharmacists critically reviewed 97 Mountain ZERO hospital acquired VTE cases for error and future interventions
- With the goal of providing education within 24-48 hours of discharge, ATS nurses called 1605 (90%) of eligible patients to provide high-risk medication education and follow up
- ATS nurses frequently identify and triage issues as they assess patients for their understanding of the use of their anticoagulation, as well as if they anticipate any barriers to compliance with the medication

WVU Hospitals & Clinics

J.W. Ruby Memorial Hospital

Operations & Fairmont Medical Center

Leadership



Jordan Carter,
PharmD, MS
Director,
Adult Acute Care
Operations



Marc Phillips,
PharmD, CPHQ, 340B ACE
Assistant Director,
Supply Chain and
Business Development



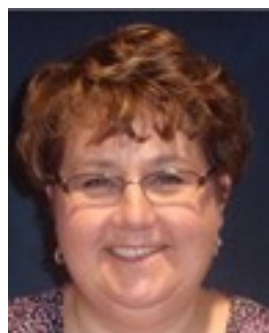
MJ Braham,
PharmD, MHA
Pharmacy Manager,
Central Operations



Bradley Gutta,
PharmD, MHA, BCPS
Pharmacy Manager,
Perioperative Services and
Controlled Substances



Lauren Ray,
PharmD, MBA
Pharmacy Manager,
Sterile Products



Kelly Smith,
PharmD, BCACP
Pharmacy Manager,
Fairmont Medical Center

The Pharmacy Operations team oversees the medication use process at WVU Hospitals, ensuring reliable and safe distribution of medications to patients. This team oversees the procurement, storage, preparation, distribution, and delivery of medications throughout WVU Hospitals. Our time and service are dedicated to operating the central pharmacy, including the IV room, controlled substance vault, and perioperative services. The pharmacy operations team is comprised of highly experienced and dedicated technicians, interns, pharmacists, and leaders to meet the needs of patients at WVU Hospitals.

4,279,538

Doses Dispensed

↓ 44%

Omniceil Stockouts

Adult Operations & Fairmont Medical Center

Central Operations

- Transitioned from a once daily to twice daily Omnicell restock for all nursing areas, resulting in >40% reduction in medication stockouts
- Improved patient specific dose dispensing through the addition of a second daily unit dose cartfill, resulting in >10% reduction in centrally dispensed first doses
- Implemented Compounding and Repackaging (CNR) operational workflows for centrally dispensed half tablets and short stability medications, adding a barcode on the tablet packaging for nursing barcode medication administration

Sterile Products and Perioperative Services

- Implemented Omnicell's Anesthesia Closed Loop (ACL) to streamline anesthesia documentation and pharmacy controlled substance reconciliation workflows
- Implemented Omnicell Central Pharmacy Manager (CPM) technology for automated inventory management in the hazardous sterile compounding area and perioperative services satellite
- Improved patient specific dose preparation through addition of a fourth cartfill and optimizing insulin glargine preparation practices

Pharmacy Supply Chain

- Improved inventory turns across all pharmacy cost centers by 3 compared to 2023 (12 v 15)
- Drug Shortage Mitigation
- Clinical impact shortages decreased by 45% in 2024
- Partnered with WVUH Supply Chain and Clinical leaders to mitigate Baxter North Cove shortages



Fairmont Medical Center

- Implemented tabletop medication packager
- Finalized construction plans for expansion of pharmacy services in 2025, including:
 - Sterile Compounding Services
 - Infusion Services
 - Retail / Discharge Prescription Services

WVU Hospitals & Clinics

J.W. Ruby Memorial Hospital Clinical Services and Education

Leadership



Mike Konietzko,
PharmD, MS, BCPS
Assistant Director,
Adult Clinical Services
& Education



Ashlee McMillan,
PharmD, BCACP
Pharmacy Manager,
Residency & Education



Kelli Phipps,
PharmD
Pharmacy Manager,
Adult Medicine &
Cardiology

Clinical pharmacy specialists and generalists at WVUH provide patient care to adult populations in both acute care and ambulatory care settings. Clinical pharmacist services are tailored to patient care needs, and may include the development of individualized pharmacotherapy plans, medication management and optimization, patient education, and coordinating transitions of care. In addition to direct patient care, the clinical pharmacists lead quality improvement initiatives, precept learners, and serve on department and hospital committees and workgroups to advance the practice of pharmacy and raise the quality of patient care at WVUH.

The Acute Care Adult Clinical Services pharmacy division comprises all adult inpatient medical and surgical service areas and their related specialty areas. It is composed of

clinical generalist pharmacists and clinical specialist pharmacists providing around-the-clock pharmacy services for 75 adult services. Clinical pharmacists are integrated into patient care teams as part of a practice model consisting of service line-based coverage, with clinical pharmacists predominantly decentralized. Clinical pharmacists participate in daily interdisciplinary patient care rounds for most medical services in addition to order verification duties, management of pharmacist-owned protocols, emergency response, and other patient care activities.

Adult Clinical Pharmacy Services

↑ **2,644,291**

Orders Verified

↑ **5.86**

Average Length of Stay (Days)

↑ **130,463**

Pharmacy Interventions

↑ **579**

Average Daily Census

↑ **45,366**

Notes Placed

↑ **2.06**

Average Case Mix Index

↑ **6,654**

Pharmacist to Dose Protocol Orders

Alcohol Use Disorder Treatment

Patients with Alcohol Use Disorder (AUD) typically present with a varying severity of symptoms that requires careful triaging and subsequent management. The adult clinical pharmacy group partnered with provider and nursing colleagues to initiate a novel screening tool, the prediction of alcohol withdrawal severity scale (PAWSS), for these patients in the emergency department. This scoring tool can help predict the severity of a patient's withdrawal symptoms and proactively inform what level of care is most appropriate for a patient. In addition to this scoring tool, additional treatment pathways were developed to allow for clinical flexibility when choosing a pharmacotherapy-based regimen to treat a patient during the course of their withdrawals.

Ambulatory Care

Cardiology

Critical Care & Surgery

Emergency Medicine

Infectious Diseases

Internal Medicine & Transplant

Oncology

Pediatrics

Additional highlights from 2024 for Adult Clinical Pharmacy Services can be found below:

- Creating and enhancing order sets to guide optimal medication therapy management
 - Heart failure admission order set
 - Chest Pain Acute MI/Unstable Angina Order Set
 - Digoxin Panel
 - Atrial fibrillation
 - Non-ICU phenobarbital for alcohol withdrawal
- Updating clinical guidelines and resources for enterprise accessibility and usability
 - Sotalol/dofetilide use in adult patients
 - Food/drug interactions
 - Pulmonary Arterial Hypertension
 - P2Y12 bridging and transitioning
- Providing clinical guidance and support through national drug shortages
 - IV fluids impacted by Hurricane Helene's damage to the Baxter plant in NC and threatened interruptions to patient care

PHARMACY RESIDENCY & EDUCATION

2024 WVU MEDICINE PHARMACY ANNUAL REPORT

91

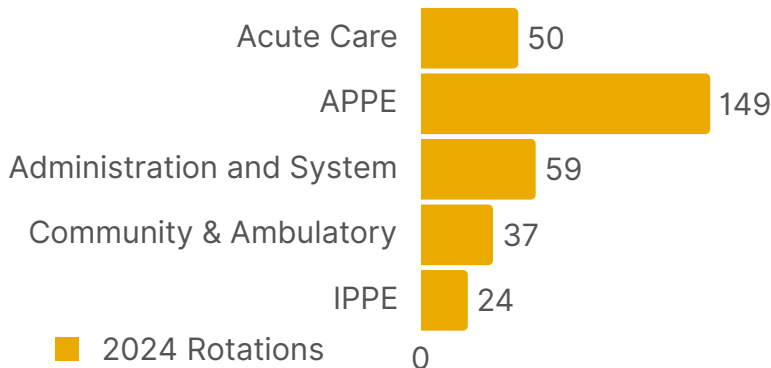
Students

13

Practice Sites

73

Preceptors



2024-2025 Residency Class

Residency

The WVU Medicine Pharmacy Residency Program was started in 1985 by the Residency Coordinator, Art Poremba, and accredited by ASHP in 1987. Since the program's inception, nearly 40 classes have completed the program, consisting of over 200 resident alumni. The program continues to gain national exposure, having had residents from school across the country and an alumni base that ventures out to service patients across the United States.

Interns

Pharmacy interns are employed throughout the hospital to support the functions of the departments in which they are employed while gaining valuable practical experience. Pharmacy interns work directly with patients conducting medication histories and supportive functions. They also participated in clinical activities alongside residents and preceptors.



Students

WVU Hospital's Department of Pharmacy has a strong commitment to education. We offer introductory (IPPE) and advanced practice experience (APPE) rotations across all practices. The department also hosts a longitudinal track program designed to prepare APPE students for residency.

PHARMACY RESIDENCY & EDUCATION



PGY1 ACUTE CARE

RPD - Ashlee McMillan, PharmD, BCACP

RPC - Brooke Ebbert, PharmD, BCOP



PGY2 AMBULATORY CARE

RPD - Briana Kocher, PharmD, BCACP

RPC - Carrie Clutter, PharmD, BCACP



PGY2 CARDIOLOGY

RPD - Galen Kabulski, PharmD, BCCP

RPC - Rachael Schauble, PharmD, BCCP



PGY1 COMMUNITY-BASED (SPECIALTY)

RPD - Abbi Blevins, PharmD, MBA, CSP, CTTS

RPC - Kelsi Conant, PharmD, CSP



PGY2 CRITICAL CARE

RPD - Nicole Kovacic Scherrer, PharmD, BCCCP

RPC - Alex Kinney, PharmD, BCCCP



PGY2 INTERNAL MEDICINE

RPD - Jay Martello, PharmD, BCPS

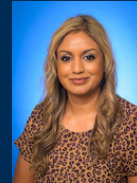
RPC - Ben Bredhold, PharmD, BCPS



PGY1/2 HSPAL

RPD - Todd Karpinski, PharmD, MS, FASHP, FACHE

RPC - Dan O'Neil, PharmD, MS, FASHP



PGY2 INFECTIOUS DISEASES

RPD - Meera Mehta, PharmD, BCIDP

RPC - Megan Hardy, PharmD, BCIDP



PGY2 ONCOLOGY

RPD - Aaron Cumpston, PharmD, BCOP

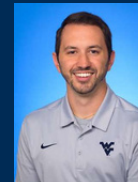
RPC - Jordan Hill, PharmD, BCOP



PGY1 PEDIATRICS

RPD - Courtney Sweet, PharmD, BCPPS

RPC - Kayla Dilcher, PharmD, BCPPS



PGY2 PEDIATRICS

RPD - Courtney Sweet, PharmD, BCPPS

RPC - Matt Whiteman, PharmD, BCPPS

Thank you Jeffery Garavaglia, PharmD, BCCCP, who served as the PGY2 Critical Care RPD for 6 years and Douglas Slain, PharmD, BPS, FCCP and FASHP, who served as PGY2 Infectious Diseases RPD for 11 years!

WVU Hospitals & Clinics Children's Hospital

Leadership



Courtney Sweet,
PharmD, BCPPS
Director,
Pediatric Pharmacy
Services



Micah Butcher,
PharmD, BCPPS
Pharmacy Manager,
Clinical Pediatrics
Pharmacy Services



Lisa Garavaglia,
PharmD, BCPPS
Pharmacy Manager,
Operation Pediatrics
Pharmacy Services

625,893

Medication Orders Verified

2,631

Pediatric Infusion Visits

104,663

Bottles Prepared in Infant Nutrition

WVU Medicine Children's celebrated 2 years of operations in September 2024. The pharmacy team has settled into their new home and are working to optimize operations and clinical services.



WVU Hospitals & Clinics

Children's Hospital

Key highlights from the Children's Hospital pharmacy team in 2024:

- The operations team fully implemented EPIC's compounding and repacking module to ensure all compounding records for sterile and non-sterile preparations are recorded electronically accounting for 11,319 preparations.
- Utilized EPIC's dose automation via orderable ERXs which incorporate items such as age, weight, and concentration to allow for a rule based dispense map. Andrew Allison, PharmD, BCPPS submitted EPIC mapping tickets for over 40 medications including IV and oral products which are now live. Huge win for patient safety!
- The December 2024 issue of NEJM highlighted exciting finding in a trial for pediatric acute lymphoblastic leukemia which added blinatumomab to traditional chemotherapy. It demonstrated a 3-year disease free survival of > 98% and < 5% risk of relapse. This led to blinatumomab + chemotherapy now being the standard of care. With these ground-breaking results, the WVU Medicine Children's team successfully transitioned 28-day acute care blinaumomab therapy to the home setting via InfuSystem® CADD- Solis pumps for 7 patients by the end of 2024.
- The first dose of a new gene therapy, Elevidys (delandistrogene-moxeparvovec-rokl), was administered in West Virginia at Children's. Gretchen Horning, PharmD, BCPPS was recognized by the Bravo team for her contributions in ensuring the patient received approval and treatment.
- Ashley Parker, PharmD began rounding two days per week with the Obstetrics and Maternal Fetal Medicine services and precepted our first PGY2 resident OB rotation.
- Ashley Martin, PharmD worked with the national BPD (bronchopulmonary dysplasia) collaborative, Vermont Oxford Network, and the Children's hospital Small Baby Committee to provide the best care to our smallest patients.



WVU Hospitals & Clinics Oncology & Investigational Drug Services

Leadership



Dmitry Walker,
PharmD, MS

Director,
Oncology & Investigational
Drug Services



Meaghan Hansen,
PharmD, BCPS

Pharmacy Manager,
Clinical Oncology &
Investigational Drug Services



Luna Shi,
PharmD, MS, BCPS

Pharmacy Manager,
Oncology & Ambulatory
Infusion Operations

260,434

Clinic and Infusion Center Medication
Orders Verified

121

Active Clinical Trials Supported

96,875

Clinic and Infusion Visits Supported



WVU Hospitals & Clinics

Oncology & Investigational Drug Services

- Obtained WV Board of Pharmacy approvals for implementing Collaborative Practice Agreements for all WVUH Ambulatory Oncology Pharmacy Specialists
- Implemented virtual inventory management using Omnicell CPM hardware and software (achieved over \$300,000 annualized inventory cost optimizations in 2024)
- Obtained space for and rolled out a net new Investigational Product storage space for ambulatory clinical trial treatments
- Caught and intervened on errors within over 80 unique ambulatory (“take-home”) oncolytic prescription through prospective verification queue for all discharge and clinic prescribed oncolytics
- Migrated all IDS clinical and operational files to a new Microsoft Teams based location to streamline interdisciplinary collaboration
- Implemented workflows to begin supporting the new RNI Infusion Center with unit dose and compounded medication clinical order verification and delivery (go-live January 2025)
- Launched the MBRCC Pharmacy/Nursing “Walking in My Shoes” shadowing immersion initiative to improve workflows and communication between MBRCC Infusion Nursing and WVUH CC Pharmacy staff
- Updated IDS SOPs and Policies to optimize to further streamline workflows and charge capture for pharmacy clinical trials support in 2025
- Implemented a WVUH protocol to allow pharmacists to discontinue BEACON treatment/therapy/supportive plans without activity within a year since provider order entry (discontinued over 920 plans associated with past and current WVUH oncology providers)



WVU Hospitals & Clinics

Medication Safety & Compliance

Leadership



Maria Cumpston,
PharmD, CPPS

Director,
Medication Safety and
Pharmacy Compliance

Drug Diversion

- Shannan Molnar joined the team as the WVUH Drug Diversion Coordinator
- Calvin Parmiter joined the team as the WVUHS Lead Drug Diversion Coordinator
- Bernie Soccorsi-Long Checked Control Check User Data Base in 2024, combined duplicate names, and merged married and maiden names to get rid of duplicate profiles which was over 400 names!
- Exceeded national benchmarks for Control Check Metrics including percent of unreconciled events and days to reconcile events
- Standardized controlled substance infusions coming into and leaving WVUH
- Developed standardization for reporting significant controlled substance loss
- Implemented Control Check across all sites for WVUHS
- Expanded Waste Log library to include oral liquids

Compliance

- Chalyon Harris joined the team as the inaugural Compliance Technician with a focus on surface sampling and USP compliance as well as Joint Commission compliance

Medication Safety

- Christina Deusenberry joined the medication safety team – completing our coverage across WVUH and had the following accomplishments:
 - Reviewed and updated Stericycle pharmacy and nursing reference documents.
 - Completed general surgery resident education on medication safety with the goal of increasing awareness and promoting providers to submit medication event reports.
 - Completed ISMP best practice 20: Safeguard against wrong-route errors with tranexamic acid.
 - Developed a mammalian bite guideline for enterprise use.
- Jenni Shahan led a pharmacist escape room as a treat during pharmacy week.
- Culture of Safety Survey completed with 100% pharmacy participation.
- WVUH Projects
 - Streamlined IV regular insulin in collaboration with pharmacy operations
 - Standardized the IVIG workflow and tip sheets to assist with multi bottle administration
 - Implemented numerous medication look backs for drug drug interactions
 - Redesigned and implemented ALTEplase orders for patients less than 30kg
 - Major stakeholders in new ICU Medical Plum 360 Pump Implementation in November 2024
- Sheena Burwell, Christina Deusenberry and Jenni Shahan took over the CUSP meetings with highlights of push dose pressor education, implementation of a BPA in verification for low weight patients, and streamlining the workflow from Fairmont to Ruby transfers
- WVUHS Standardization
 - ASHP Standardize for Safety oral medication concentrations
 - ASHP Standardize for Safety pediatric continuous infusion concentrations
 - Removal of auto verification for U-500 insulin, all intravenous insulin products and neuromuscular blocker orders
 - Updates to the Management of Extravasation Guidelines based on new literature
 - Implementation of an alert when medications are ordered with due times in the past
 - Implementation of Origami Risk – event management reporting system
 - Implementation of Just Culture out across all of WVUHS



99.5%

**First month library
compliance**

100%

**PCA and Epidural pump
library compliance**

97%

**WVUH Barcode
Medication
Administration
Compliance**

WVU Hospitals & Clinics

Ambulatory & Transitions of Care

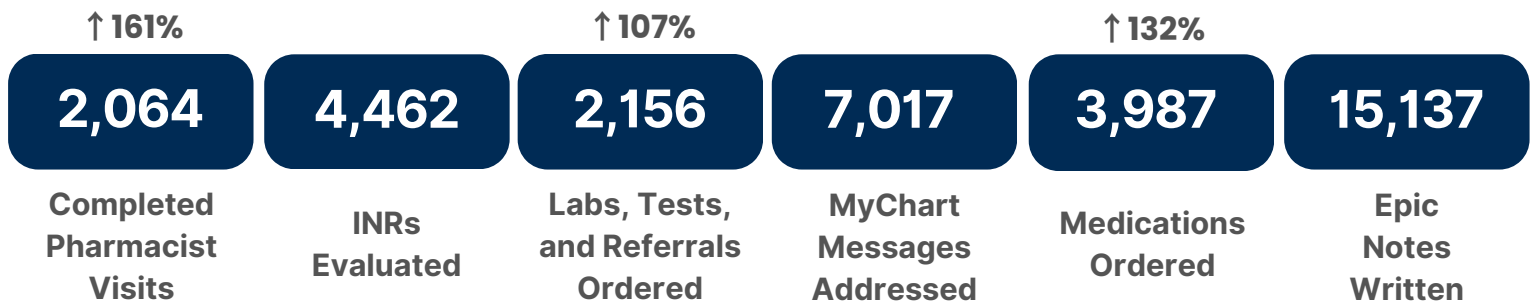
Leadership



Will Hammonds,
PharmD, MS, BCPS
Pharmacy Manager,
Ambulatory &
Transitions of Care

In 2024, the Ambulatory Care Division continued to expand and innovate in providing comprehensive care to our patients. This year, we proudly welcomed a clinical pharmacist specializing in medical weight management, further expanding our service offerings. Additionally, we secured financial approval for both a rheumatology clinic pharmacist and a PGY1 pharmacy resident with a focus on ambulatory care, marking significant steps in enhancing our team and capabilities.

Over the past five years, the division has experienced remarkable growth, with the addition of six new pharmacist positions. As part of our ongoing commitment to improving care delivery, we began professionally billing in internal medicine clinics and now maintain seven collaborative practice agreements—an initiative we plan to expand even further in 2025.



Our commitment to advancing research and patient care has led to the initiation of a grant-funded research project in partnership with WVUHS Specialty Pharmacy and the GI clinic. In addition, we launched and led FARMacy WV, a prescription produce program designed to provide high-quality fruits and vegetables to patients free of charge, along with education on creating healthy recipes. To further support our providers, we have strengthened our medication review education and resources for both nursing staff and physicians, ensuring a holistic and efficient approach to patient care.



“The division strives to enhance patient care, expand services, and foster growth within our team.”

WVU Hospitals & Clinics

Medication History & Reconciliation Program

The Adult Medication History and Reconciliation Program experienced significant growth and success in 2024, achieving record volumes without additional staffing. A major milestone was the November 2024 implementation of Dr. First within Epic, enhancing the accuracy and reliability of outpatient pharmacy dispensing information to support the team's ultimate goal of a 100% capture rate.

Medication History Team

1 Pharmacy Technician Supervisor

4 Medication History Interns

15 Medication History Technicians

2024 ACCOMPLISHMENTS

>24,000

Pharmacy-Driven Medication Histories

70% ↑ 5% from 2023

Completion of Adult Admission Medication Histories

Key accomplishments in 2024:

- Introduced a new Tableau dashboard for accurate and consistent progress tracking.
- Streamlined follow-up processes among technicians to improve efficiency.
- Developed pharmacist support documents to standardize workflows.

Thank you to our pharmacists and pharmacy residents who continue to support the success of this program and in turn improve safety at transitions of care!

WVU Hospitals & Clinics

Infectious Diseases Pharmacy Services

The Infectious Diseases Pharmacy services team consists of one lead clinical pharmacy specialist, five clinical pharmacy specialists and one administrative assistant.

Antimicrobial Stewardship

- Developed a website and web-based application, MedCompass, in conjunction with our Information Technology colleagues that houses 40+ WVU Medicine health-system approved clinical guidance documents to ensure our clinicians have the information they need in the palm of their hand, literally.
 - The top three guidance documents viewed were:
 - Adult Antimicrobial Dosing Guidance
 - Inpatient Urinary Tract Infection Treatment
 - Empiric Antimicrobial Therapy Guidance
- In collaboration with Kelly Smith, Pharmacy Manager at Fairmont Medical Center, the Fairmont Medical Center Skilled Nursing Unit achieved Platinum status for the WV Office of Epidemiology and Prevention Services Maximizing Efforts Dedicated to Antimicrobial Leadership and Stewardship (MEDALS) Program
 - The purpose of the MEDALS Program is to recognize facilities that have elements in place to support an antimicrobial stewardship program and are working to improve antibiotic use and infection prevention practices.
 - The FMT SNU is the second facility within West Virginia to achieve the Platinum level for MEDALS.
- Hosted second annual WVU Medicine Foundations of Antimicrobial Stewardship Seminar Day with participants from across the health-system in 2024.
- WVUH antimicrobial use trends remain favorable in 2024. The top three antimicrobials in 2024 being cefazolin, vancomycin, and cefepime.
- Maintained total WVUH anti-infective spend per patient day in 2024 with a monthly average of \$12.41/patient day which is a 2% reduction from 2023 with a \$12.71 anti-infective spend per patient day.

>6,800 total website/app views with >28,000 document views since launching in April 2024

87%

AMS Intervention
Acceptance Rate

94%

OPAT Intervention
Acceptance Rate

82%

COpAT Intervention
Acceptance Rate

Outpatient Parenteral Antimicrobial Therapy (OPAT)

- 1,156 OPAT consults were completed in 2024.
- Our OPAT program also continued to expand upon continuous infusion vancomycin for patients receiving home infusion. A medication use evaluation was conducted that demonstrated a low rate of AKI in this patient population, < 10%, which is a touted benefit of continuous infusion vancomycin in the literature.

Complex Outpatient Antimicrobial Therapy (COpAT)

- Our COpAT services continued to grow with 543 consults ordered in 2024.

A huge thank you to the whole pharmacy department for their continued efforts in propelling antimicrobial stewardship! We could not do it without you! Everyone is a steward.

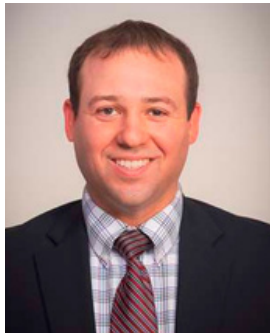
WVU Hospitals & Clinics Retail Pharmacy Services

Leadership



Joedell Gonzaga,
Pharm D, MHA
Director,
Retail Pharmacy
Services

The Outpatient Pharmacy Services Team is comprised of three retail pharmacies and two Pick up locations, Little Mountaineer and Medical Center Pharmacy Pickup Window at MBRCC in the Morgantown, WV area. Located on-campus at Ruby Hospital and at the WVU Student Health Building. We provide the best care for patients, employees, and other guests of WVU Medicine. We are passionate about caring beyond the prescription and providing high-quality care. The emphasis is on providing timely, safe, and accurate prescription services while educating patients on the importance of their medication. The Outpatient team consistently produces a positive financial contribution to WVU Medicine.



Jared Lapkowicz,
PharmD
Pharmacy Manager,
Retail Pharmacy
Services



Renee Postlethwait,
BSP Pharm
Pharmacy Manager,
Retail Pharmacy
Services

Caring Beyond Prescriptions!



Medical Center Pharmacy

Delivered 48,288 Prescriptions
Mailed 54,029 Prescriptions

Discharge Pharmacy

Delivered 81,726 bedside prescriptions

Mountaineer Pharmacy

Delivered 7,724 Prescriptions
Mailed 55,553 Prescriptions
Over 156 patients participate in the
Compliance Packaging Program

65% Prescription Capture Rate

Med Center and Discharge Pharmacy Revenue

\$88,666,991

Mountaineer Pharmacy Revenue

\$18,151,714

Total Financial Contribution

\$106,818,705

WVU Hospitals & Clinics

Retail Pharmacy Services



Med Center Pharmacy
272,957 Scripts (↑12%)



Discharge Pharmacy
120,374 Scripts (↑14%)



Mountaineer Pharmacy
100,188 Scripts (↑18%)

- Prescriptions filled: 494,000 (↑15%)
- Overnight prescriptions filled from the Emergency Department: 2,600+
- Medication Therapy Management Patient Intervention: 1,027 (↑350%)
- Prescriptions mailed throughout the USA 110,141 (↑28%)
- Over 60,000 miles driven for home delivery
- Delivered prescriptions throughout Morgantown and West Virginia 137,773 (↑11%)
- Scripts picked up at the pharmacies 245,600
- Unique Patients serviced: 69,321
- Served patients from 48 different states (*plus DC, Canada, Australia)
- Register transactions 300,873
- Discharge Prescription Price consults completed 9,489 (↑116%)
- 4,385,045 milliliters of liquid dispensed
- 31,051,996 Dosage Units Dispensed
- 5,779 medications compounded
- 444,233 prescriptions clinical reviews done by pharmacist
- 508,171 prescriptions performed product reviews
- EPIC Willow Go-Live support (onsite and remote) for UHC, Thomas and Summerville outpatient pharmacies
- Continuous improvements of workflow after Implementation of EPIC Willow and integration with EPIC Hyperspace
- Preceptor to APPE students, PhD candidate, college interns, and Project Search Program
- Addition of the Cancer Center Pick Up Location
- Drug Donation Repository Program
- Co-Hosted first MTECH Pharmacy Tech Retail Pharmacy Experience and Training Program

WVU Medicine Specialty Pharmacy & Home Infusion

Leadership



Louis Sokos,
BS Pharm, MBA

Assistant Vice President,
Specialty Pharmacy & Home
Infusion Services



Samuel Yokum,
PharmD, MBA

Director,
Specialty Pharmacy &
Home Infusion Services

WVUH Specialty Pharmacy and Home Infusion team is here to provide special handling, packaging, education, and financial assistance for all our patients. We make patient care and safety our number one priority. Our specialty pharmacy team provides clinical expertise to help treat complicated diseases. We work closely with your medical provider to make sure all of your prescription needs are met.

Licensed in 9 States!



Disease State Management

- Allergy & Asthma
- Bleeding Disorders
- Cystic Fibrosis
- Diabetes
- Growth Hormone Deficiency
- Hepatitis C
- Hyperlipidemia
- Inflammatory Conditions
- Migraine Disorder
- Multiple Sclerosis
- Oncology & Hematology
- Osteoporosis
- Pulmonary Hypertension

WVU Medicine Specialty Pharmacy

Leadership



**Jessica Stewart,
PharmD, CSP**

Assistant Director,
Specialty Pharmacy
Services



**Amanda Hunn
MBA-Hm, CPhT**

Pharmacy Manager,
Specialty Pharmacy
Authorization Services



**Jeffrey A. Mick,
PharmD**

Pharmacy Manager,
Pharmacy Operations



**Rachel Mitchell,
PharmD, BCPS, CSP**

Pharmacy Manager,
Specialty Pharmacy
Clinical Services

Clinical Services

28,823 Clinical Activities Documented

3,299 Patient Therapy Onboarding

3,392 Initial Patient Assessments

9,067 Treatment Follow-up Reviews

6,980 Lab Activities

4,805 Clinical Interventions

47 New Medications Reviewed and Added to
Formulary

11 Single Site and 3 Multisite Research
Projects in Progress

5 Students in Specialty Pharmacy Elective

Operations

\$362 Million Specialty Pharmacy Revenue

75,118 Specialty Pharmacy Prescriptions

Prior Authorization and Patient Assistance Team

\$7.5 Million Total Patient Medication Savings

\$7.4 Million Co-pay Assistance Savings

\$90,000 Patient Assistance Funds &
Grants Savings

24,940 Prior Authorizations Completed

89.9% of all patients received a copay less
than \$20

6 Additional Prior Authorization Locations
Serviced

WVU Medicine Home Infusion, Delivery Services, & Business Operations



**Jalyn Robinson,
PharmD, CSP**

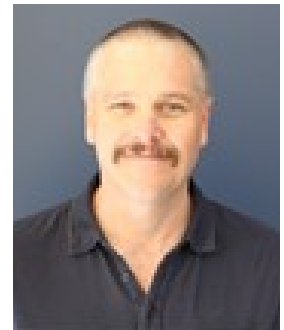
Assistant Director,
Home Infusion

Home Infusion

9,136 Home Infusion Prescriptions Completed

312 Total Home Infusion Patients

\$10.5 Million Home Infusion Revenue



Michael Bishoff

Pharmacy Manager,
Delivery Services

Delivery Services

482,744 Courier Miles Driven

34,483 Internal Courier Deliveries

19,926 Third Party Shipments



**Mike Mezzapelle,
BS, CPhT**

Pharmacy Manager,
Business Operations

Specialty Pharmacy & Home Infusion Team



Business Operations

7,654 Internal Audits

WVU Medicine

Enterprise Pharmacy Solutions

Leadership



Dave Cecere,
PharmD, MBA, FACHE

Director,
Enterprise Pharmacy
Solutions



Staci Czyzewski,
BS, CRCR

Senior Pharmacy Manager,
Enterprise Pharmacy
Solutions



Brian Jones,
CPhT

Pharmacy Manager,
Enterprise Central
Services Warehouse



Tim Speerhas,
RPh

Pharmacy Manager,
Enterprise IT and
Analytics

Pharmacy Enterprise Solutions is comprised of two teams: the Business Operations team and the Centralized Pharmacy Warehouse. The business operations team provides health system support for revenue cycle integrity, patient assistance, pharmaceutical contracting, pharmacy inventory management, and informatics.

The Business Operations team assisted in reducing operational expenses by standardizing pharmaceutical contracting, assisting in IT system implementation, ensuring appropriate patient charging and helping indigent patients receive free medications through patient assistance programs. The annualized savings in 2024 was 50 million dollars.

Centralized Warehouse Management

- Central Distribution Center implemented in 2024
- Improved drug shortage management and mitigation
- Standardized Repackaging Center
- Clinical Standardization and support that decreased product expired medications

ENTERPRISE PHARMACY SOLUTIONS

Finance

- Development of billing program for Enterprise outpatient infusion products waste
- Implementation of Business Operations Cherwell Ticketing System
- Standardization of pharmacy cost centers across the system
- Assisted with implementation of outpatient MAR for clinics across the system

Contracting

- Implementation of standardized price checks and audits for improved standardization of McKesson pricing across the system
- Expansion of contracting services across the system to include all Critical Access Hospital and Rural Referral center facilities
- Development of Contracting Onboarding protocol for newly acquired hospitals

Informatics

- Coordinated and assisted with Omnicell Implementations across system
- Lead system Omnicell Standards committee
- Manage system Omnicell database
- Coordinate standardization and contracts of new pharmacy software

Patient Assistance

- 400+ Patients provided free medication to include 2,000+ doses
- \$7.8M Medication provided at no cost to patients or to our organization



WVU Medicine

Enterprise 340B Management Program

Leadership



Karen Dusci-Famoso,
BS Pharm, MBA

Director,
Pharmacy Compliance &
Business Operations



Ninna Breindel,
MBA, 340B ACE

340B Program Manager,
Retail/CP Operations



Jessica Calderone,
BS, 340B ACE

340B Program Manager,
Program Integrity



Elizabeth Gibson,
BA, CPhT, 340B ACE

340B Program
Manager, Mixed Use



Alexis Galloway,
MBA, 340B ACE

340B Program Manager,
Strategic Initiatives



Barbra May, MBA,
340B ACE

340B Program Manager,
Business & Finance

The Team

The 340B Program Management Team was established in March 2020. Since then, it has made significant progress in compliance, financial performance, expansion of number of covered entities and contract pharmacies, manage program complexity, and increased staffing.

The Enterprise 340B Management Team is responsible for overseeing and ensuring effective implementation, compliance, and optimization for WVU Medicine. The 340B Pricing Program is a U.S. federal program that requires drug manufacturers to provide discounted prices on outpatient drugs to eligible healthcare organizations, which care for a high proportion of low-income patients. The program is designed to help these organizations stretch their limited resources, enabling them to provide more comprehensive care to vulnerable and underserved populations.

Compliance and Oversight

- Eligibility & Enrollment
- Training & Education
- Mixed Use Management
- Contract Pharmacy Management
- Financial Management
- Program Optimization
- Continuous Audits, Risk Management & Mitigation

Enterprise 340B Management Program

Program Compliance

- Managed all aspects of 3 HRSA audits
- Created a standard Medicaid carve-in list
- Billing process improvements ensuring compliance with Medicaid & Medicare modifier rules
- Artificial Intelligence (BOT) developed to audit 100% of mixed-use claims totaling 2,158,758 audits
- External audit of Contract Pharmacy with no findings
- Added Thomas, St. Francis, and Grant to Enterprise 340B management

Program Expansion

- Registered 63 new Child Sites
- Registered 45 additional Contract Pharmacies
- Assisted with 3 oncology clean site conversions
- Expanded the team adding 2 new FTEs

Program Optimization

- Additional earnings generated \$27.3 million
- Developed Program Integrity Team to validate Medicare Cost Reports and location eligibility
- Assisted the Enterprise Pharmacy Solutions team in building a 340B program management software for the Pharmacy Consolidated Service Center
- Re-Implementation of Verity for one hospital to optimize the program and ensure compliance
- Enhanced Financial Reports and Trackers

Other Projects

- ABC Reconciliation of Pre-Pay and Post-Pay
- Estimate Contract Pharmacy Budget across the System 340B Hospitals
- Hosted 340B Health Roundtable Seminar

19

Covered Entities

242

Child Sites

17

Hospital Owned Retail & Specialty Pharmacies

170,915

Claims Audited

3

HRSA Audits

26

340B Team FTEs

483

Contract Pharmacies

Despite ongoing manufacturer limitations, the 340B Team has achieved year-over-year growth, ending 2024 with a total 340B benefit of \$394.4 million.



Program Category	2020	2021	2022	2023	2024
Mixed Use	\$88.9 M	\$104.0 M	\$120.5 M	\$150.8 M	\$193.1 M
Hospital Owned Pharmacy	\$18.3 M	\$10.9 M	\$13.4 M	\$21.6 M	\$112.8 M
AHS/WVUH Specialty (Contract Pharmacy)	\$24.5 M	\$52.1 M	\$64.6 M	\$80.3 M	\$34.2 M
Contract Pharmacy Total	\$19.7 M	\$25.2 M	\$30.8 M	\$45.3 M	\$54.4 M
Total 340B Benefit	\$151.3 M	\$192.2 M	\$229.3 M	\$298.0 M	\$394.4 M
340B % Increase Y/Y		27.0%	19.3%	30.0%	32.3%

WVU Medicine

Enterprise Medication Use

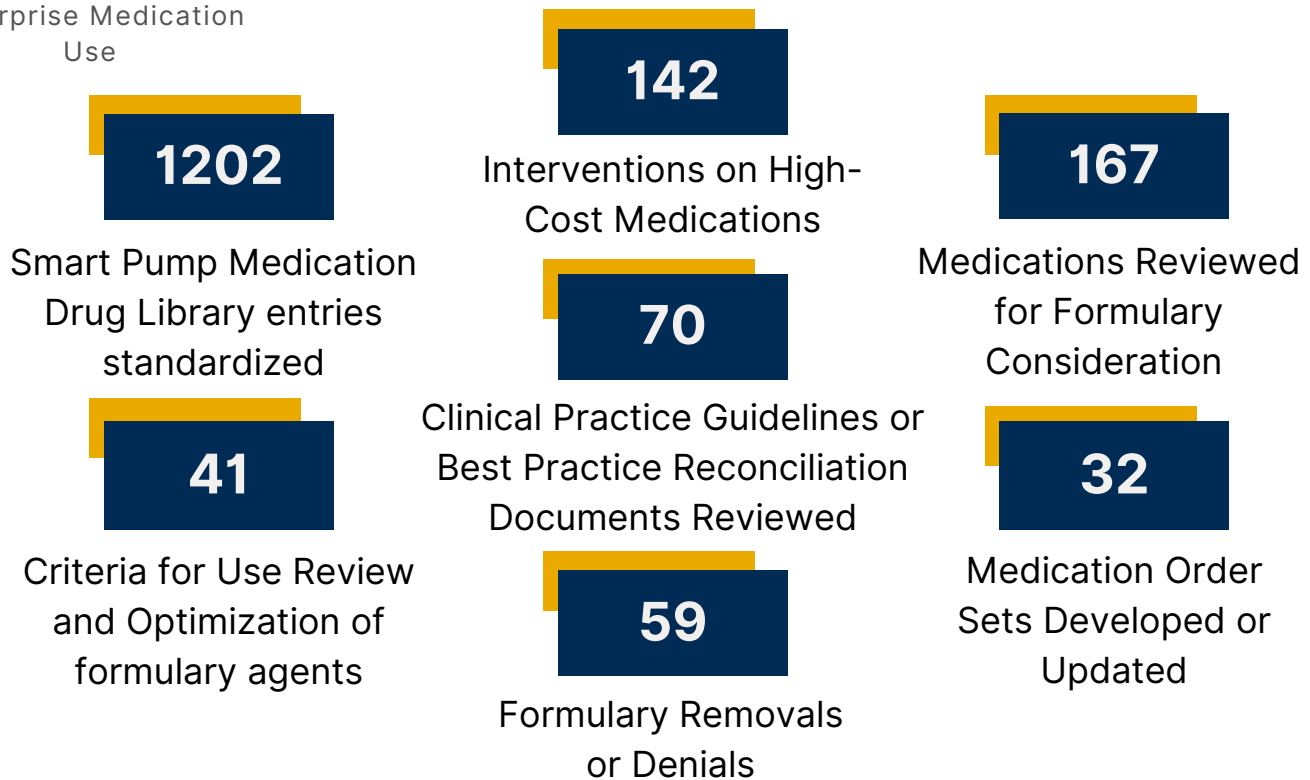
Leadership



**Derek Grimm,
PharmD, BCPS**

Director,
Enterprise Medication
Use

The focus of the WVU Medicine Health System Medication Use Team is to collaborate with healthcare professionals and provide expertise to promote the safe, effective and fiscally responsible use of medications for our patients. This is achieved through integration with clinical and operational staff, as well as those in medication safety, informatics, and pharmacy leadership. Medication Use is directly responsible for assessing the clinical and safety impact of medications, forecasting future drug therapies, performing and assisting clinicians in the execution of medication use evaluations and other benchmarking strategies.



The Medication Use Team is also responsible for the coordination of the WVU Medicine Health System Pharmacy and Therapeutics (eP&T) Committee, in addition to the nine subcommittees focusing on ambulatory care, hematology/oncology, critical care, perioperative services, antithrombotic stewardship, antimicrobial stewardship, hospital medicine, medication safety and infusion technology.

Specific Initiatives the Medication Use Team also focused on included:

- Coordinated over 25 Medication Use Evaluations across multiple residency programs and the WVU School of Pharmacy with outcomes data presented at Vizient Pharmacy Network Meeting/ASHP Midyear Meeting.
- Promoted the safe and effective care of patients with myasthenia gravis, immune thrombocytopenia and multiple sclerosis through provider education and the development of clinical guidance and medication order panels.
- Integrated nine WVU Medicine hospitals into the systemwide Smart Pump Drug Library and supported smart pump implementation efforts.
- Developed strategies to aid providers in the safe and effective use of medications with a Risk Evaluation and Mitigation Strategies (REMS) program.
- Delivered five educational presentations to WVU Medicine physician stakeholders and five clinical pharmacy workshops to continue educational efforts and communicate opportunities of medication use optimization.
- Developed and deployed two nursing-focused clinical program collaboratives across the health system focused on anti-thrombotic and anti-infective medications.
- Partnered with each of the six WVUHS Institutes for one medication related initiative.
- Developed a comprehensive, online formulary management tool with integrated resources for safe prescribing of medications.
- Published six issues of the Med Use Newsletter that contains pertinent news updates and articles on current pharmacy topics, as well as systemwide updates to the formulary and electronic health record (EHR).
- Managed dedicated project time for pharmacists to develop strategies to integrate medication therapies into clinical care pathways to improve patient outcomes in several disease states, notably:
 - Chronic Obstructive Pulmonary Disease (COPD)
 - Heart Failure
 - Acute Coronary Syndrome and Unstable Angina
 - Alcohol Withdrawal
 - Infectious Diseases



Publications

Luning Shi, Wenfei Wei, Adam Smith, Ghalib Abbasi, Implementation and evaluation of an EHR-integrated perpetual inventory system in a large tertiary hospital oncology pharmacy, *American Journal of Health-System Pharmacy*, Volume 81, Issue 12, 15 June 2024, Pages 546–554

Vest TA, Gazda NP, **O'Neil DP**, Eckel SF, K Donnowitz, Carlson RB. Practice-enhancing publications about the medication-use process in 2023. *American Journal of Health-System Pharmacy*. 23 September 2024.

Kido K, Lee JC, **O'Neil DP**, Eckel SF. The Layered Learning Practice Model: Ensuring the accomplishment of both practice and learning. *American Journal of Health-System Pharmacy*. 13 August 2024.

Vest TA, Gazda NP, **O'Neil DP**, K Donnowitz, Carlson RB, Eckel SF. Practice-enhancing publications about the medication-use process in 2022. *American Journal of Health-System Pharmacy*. 10 May 2024.

Hammonds WM, Bowman E, **Chiplinski AN**, **Pagenhardt SM**, **Keeting TA**, **Valdez P**, Peters JE, Stoffa SL, Caccamo M, **O'Neil, DP**. Impact of a pharmacy technician on an interprofessional antithrombotic stewardship program at an academic medical center. *American Journal of Health-System Pharmacy*, 1 March 2024.

Vest TA, Gazda NP, **O'Neil DP**, Eckel SF. Practice-enhancing publications about the medication-use process in 2021. *Am J Health Syst Pharm*. 12 Jun 2024.

Bok RW, **Lacoste JL**, Fang W, **Kido K**. Impact of Outpatient Beta Blocker Therapy Adjustment on Tachyarrhythmias in Patients With Heart Failure With Reduced Ejection Fraction Admitted for Acute Decompensated Heart Failure. *J Pharm Pract*. 2024;37(6):1245-1251. doi:10.1177/08971900241247932

Gajda E, **Cumpston M**, **Parmiter C**. Expand Proactive Diversion Prevention Practices. *Pharmacy Purchasing and Products*. 2024;21(12).

Kielkowski B, Mansour D, **Ebbert B**, **Seago K**, Wen S, Li H, **Barrett C**. Real world comparison of immune-related adverse events with nivolumab-relatlimab versus ipilimumab-nivolumab in patients with advanced cutaneous melanoma. *J Oncol Pharm Pract*. 2024 doi: 10.1177/10781552241303698.

Johnston ED, Smith CB, Van Tuyl JS. Effects of Implementing a Heart Failure Order Set to Optimize Guideline-Directed Medical Therapy and Diuresis in Patients with Acute Heart Failure. *Hosp Pharm*. Published online November 11, 2024. doi:10.1177/00185787241295983

Stewart AW. Fertility Preservation in Pediatric and Young Adult Oncology: Navigating Gonadotoxicity and Treatment Strategies. *Pharmacy Times*. 2024.

Sibbesen J et al. Teaching learners to identify and reduce the spread of medical misinformation. *Journal of the American College of Clinical Pharmacy*. 2024 Sept; 7(9): 926-940. <https://doi.org/10.1002/jac5.2014>.

Sibbesen J. Combatting Medical Misinformation: Strategies for Patient Education, Curriculum Integration, and Social Media Management, *Pharmacy Times*, November 2024.

Walling M, **Seago K**, Dillaman M, Yingling S, Wen S, Veltri L, Ross KG, **Cumpston A**. Analysis of spontaneous cytomegalovirus clearance after low level reactivation using a pre-emptive treatment threshold of 4,000 IU/mL in allogeneic hematopoietic cell transplant recipients. *Journal of Infection and Chemotherapy*. 2024 (online ahead of print).

Yingling SK, Francis J, **Seago K**, Safi SUD, Wen S, **Cumpston A**. Efficacy of delayed pegfilgrastim administration following consolidation therapy with high-dose cytarabine (HiDAC) in acute myeloid leukemia (AML) patients. *Supportive Care in Cancer*. 2024;32(5):276.

Martello JL, Dumont Z, Bruck W, Buckley C, Buckley M, Centanni N, Chester B, Gonzalez J, Harper G, Howland M, Gutenschwager D, Langham K, Meyers R, Roberts R, Selby A, Shin E, Szempruch K, Van Dril E, Wu S. Identifying Ideal Pharmacist to Patient Ratios for Successful Provision of Pharmacy Services. *J Am Coll Clin Pharm*. 2024;7:505-16.

Niemann B, **Zarfoss E**, Victory J, Smida T, **Petros K**, Sestito M, Bardes J. Evaluation of Oral Vasoactive Medications to Maintain Mean Arterial Pressure in Spinal Cord Injury. *J Surg Res*. 2024 Oct;302:339-346. doi: 0.1016/j.jss.2024.07.059

Publications

- Szymanski TW, Rockhold MR, Lacoste JL.** Temporal effects of CYP3A3/5 induction on ticagrelor's pharmacodynamic effects: a case series. *J Pharm Pract* 2024. doi: 10.1177/08971900241273095
- Rockhold MR, Kunkel LC, Lacoste JL, Szymanski TW,** Rothenberg P, Zimmerman P, Minc S. Comparison of direct oral anticoagulants and warfarin in chronic limb-threatening ischemia. *J Vasc Surg* 2024. 0741-5214(24)00256-8. doi: 10.1016/j.jvs.2024.01.196
- Torres B, Aguiniga A, **Yzaguirre S,** Thompson S, Wesling M. Trends and Considerations in the Pursuit of Postgraduate Training: Motivations, Barriers, and Wellbeing. *American Journal of Health-System Pharmacy.* 2025. <https://doi.org/10.1093/ajhp/zxae368>
- Mehta M, Bunner C.** Pharmacists have a significant role in the prevention of travel-related diseases. *Pharmacy Times.* October 21, 2024.
- Justice CM, Nevin C, Neely R, Dilcher B, **Kovacic Scherrer N,** et al. Impact of a tiered clinical decision support system for acute kidney injury in cardiac surgery patients. *Applied Clinical Informatics.* 16(01):001-010. DOI:10.1055/s-0044-1791822.
- Shigle AJ, Piechowski K, Sandoval N, Chiplinski A,** Hays WB. Pharmacy residency training program increases residents' confidence in inpatient medical emergency response. *Am J Health-Syst Pharm.* 2024; zxae021. doi: 10.1093/ajhp/zxae021
- Andrick L, **Shigle AJ.** DEI: Traditional Medicine in Critical Care. *SCCM Newsletter.* 2024;24(4).
- Wietholter JP,** Maynor LM, Manivannan S. Survey-based perceptions of impact of clinical pharmacists by attending physicians and medical residents/fellows. *J Interprof Educ Pract* 2024 Jun;35:100700. <https://doi.org/10.1016/j.xjep.2024.100700>
- Wietholter JP,** Maynor LM, Clutter JL. Personality and Academic Performance During Years Two and Three of a Doctor of Pharmacy Curriculum. *Am J Pharm Educ* 2024 Mar;88(3):100675. <https://doi.org/10.1016/j.ajpe.2024.100675>
- apito JC, Skaff BN, **Kinney AR,** Ashcraft AM. Methylene blue for hemolytic crisis in patients with met-hemoglobinemia secondary to hemoglobin volga: A case series. *J Family Med Prim Care.* 2024;13:2499-502.
- Lexner E, Seago K,** Kennedy L. Revaccination and Titer Assessment after CAR T-cell Therapy: Current Recommendations and an Assessment of Implementation Barriers Faced by Institutions. *Pharmacy SIG Newsletter.* American Society for Transplantation and Cellular Therapy. Winter 2025.
- Kiss, Z, Allison A, Knopp M.** Evaluation of Patient-Driven Constipation Action Plans for Patients Discharged from a Pediatric Hospitalist Service. *J Pediatr Pharmacol Ther.* Forthcoming publication 2025.
- Gunzenhauser S, Stewart A.** Role of Intravenous Immunoglobulin Administration in Patients with Down Syndrome Receiving CD19-Directed Therapies. *COG Pharmacy Newsletter Pharmacy Phorum.* Volume 4 (2): 9-10. 2024.
- Bok RW, Lacoste JL,** Fang W, **Kido K.** Impact of Outpatient Beta Blocker Therapy Adjustment on Tachyarrhythmias in Patients With Heart Failure With Reduced Ejection Fraction Admitted for Acute Decompensated Heart Failure. *Journal of Pharmacy Practice.* 2024;37(6):1245-1251. doi:<https://doi.org/10.1177/08971900241247932>
- Thyagaturu H, Ali S, Seetharam K, Upreti P, Doddi A, Atti, L, Roma N, **Lacoste JL,** et al. National Trends in Aspirin Use and Expenditures in the United States: Analysis of The Medical Expenditure Panel Survey 2000–2021. *Cardiology and Therapy.* 2024;13(4):679-694. doi:<https://doi.org/10.1007/s40119-024-00385-2>
- Lambert KV,** Demkowicz R, Murray A, **Howard C, Slain D.** 2024. Ceftriaxone versus cefazolin susceptibility as a surrogate marker for cefpodoxime susceptibility in enterobacterales. *Open Forum Infect Dis* 11:fae377.
- Hayes SM, Moore DC, Droney M, Johnson S, Rech MA, Rife K, Rosewarne R, Silvia R, **Szymanski TW.** Professional and career development needs of clinical pharmacists in settings outside academia. *J Am Coll Clin Pharm* 2024. doi: 10.1002/jac5.1940

Presentations

Nawrocki N, Trickett H, Shigle A, Keeting T. Evaluation of the achievement of target aPTT levels in obese patients receiving heparin infusions. Presented at the 2024 Vizient Pharmacy Network Meeting. New Orleans, Louisiana, December 7, 2024.

Lawson, B, Moyer C, Sibbesen J, Trickett H. Quantifying opportunity to implement pharmacogenomics into medication use. Presented at the 2024 Vizient Pharmacy Network Meeting, New Orleans, Louisiana, December 7 2024.

Nguyen KN, Howard C, Hardy M. Evaluation of Carbapenem Resistant Enterobacterales (CRE) Infections in a Primarily Rural Health System. Presented at the 2024 Vizient Pharmacy Network Meeting, New Orleans, LA, December 7, 2024.

Yzaguirre S, Rockhold M, Szymanski T, Kunkel L, Vaughan M, Berzingi S, Lacoste J. Safety of Aspirin for Primary Prevention in Patients with Atrial Fibrillation Receiving a Direct Oral Anticoagulant for Stroke Prevention. Presented at the 2024 American College of Clinical Pharmacy Annual Meeting, Phoenix, AZ, October 13, 2024.

Kielkowski BN, Seago K, Ebbert B, Vargo L, Veltri L, Safi S, Cumpston A. Implementation of Antimicrobial Coated Central Venous Catheters in Patients with Hematologic Malignancies. Presented at the 2024 Vizient Pharmacy Network Meeting, New Orleans, Louisiana, December 7, 2024

Gunzenhauser S, Martin A, Dilcher K, Stocking H. Evaluation of Acetaminophen for PDA Closure in the Neonatal ICU at Medicine Children's Hospital. Vizient Pharmacy Network Meeting. New Orleans, Louisiana. December 2024.

Williams, A., Edwards, S., Friery, E., Ponce, A., Spigelmyer, A. Characterization of Empiric Antibiotic Selection for Open Globe Injuries. Poster presentation at American Society of Health-System Pharmacists Midyear Clinical Meeting. New Orleans, Louisiana, December 10, 2024.

Williams, A. and Terrizzi, J. Establishment of an Innovative Brother Recruitment Process. Presented at the 61st Kappa Psi Grand Council Convention. Cleveland, Ohio, July 26, 2024.

Williams, A. Pedia'EERs, West Virginia University. Presented at PediatRxCon33, Minneapolis, Minnesota, May 4, 2024.

Caliendo T, Hilar O, Peddi AN, Hunziker S, McMillan A. Patient Assessment Skills Taught within Doctor of Pharmacy Laboratory Courses in the United States. American Association of Colleges of Pharmacy Annual Meeting. Boston, MA. July 2024 (was not present, but on poster)

Heng YF, Knopp M, Layne M, Rorabaugh K. Evaluation of aspirin dosing in Kawasaki Disease. Presented at the 2024 Vizient Member Networks Pharmacy Network Meeting, New Orleans, Louisiana. December 2024.

Sibbesen J et al. Teaching learners to identify and reduce the spread of medical misinformation. ACCP. Phoenix, AZ. October 2024.

Kramer S, Ponce A, Ciborowski M, Zarfoss Ponce E. Evaluation of Prescribing Patterns of Droperidol in the Emergency Department. Presented at the 2024 Vizient Pharmacy Network Meeting, New Orleans, Louisiana, December 7, 2023.

Long SL, Sexton GA. Evaluation of intravenous dexmedetomidine use in adult non-surgical, non-procedural patients at WVU Medicine - Camden Clark Medical Center. Poster presentation at ASHP Midyear Clinical Meeting, New Orleans, Louisiana, December 10, 2024.

Long SL, Sibbesen J. Evaluation of teprotumumab for treatment of thyroid eye disease. Poster presentation at APhA Annual Meeting, Orlando, Florida, March 23, 2024.

Barton M, Petite M, Pope D, Harvey M. Impact of pharmacist intervention on herpes zoster vaccination rates in patients with inflammatory disorders prescribed janus kinase inhibitors (JAKi). Presented at the 2024 ASHP Pharmacy Future Meeting, Portland, Oregon, June 2024.

Barton M, Petite M, Pope D, Harvey M. Impact of pharmacist intervention on herpes zoster vaccination rates in patients with inflammatory disorders prescribed janus kinase inhibitors (JAKi). Presented at the 2024 NASP Annual Meeting, Nashville, Tennessee, October 2024.

Presentations

Sibbesen J. Evaluation of GLP-1 Agonists Utilization in the Outpatient Setting Across a Large, Rural Health System. WV Healthcare Safety Quality and Experience Improvement Research Day. February 2024.

Barton M, Petite M. Evaluation of pharmacist-driven clinical interventions in oncology and hematology patients. Presented at the 2024 NASP Annual Meeting, Nashville, Tennessee, October 2024.

Casimir MJ, Zarfoss-Ponce E, Kinney A, Friery E. Evaluation of a novel hyperkalemia order set initiated in an inpatient setting. Presented at the 2024 Midyear Conference, New Orleans, LA, December 10, 2024.

Casimir MJ. Enhancing patient-centered care: insights from the pharmacist panel during PAI week 2030. Presented at the 2024 Midyear Conference, New Orleans, LA, December 8, 2024.

Deel J, Vargo L, Ebbert B, Cumpston A, Seago K. Tolerability of rapid rituximab at doses greater than or equal to 1000 mg. Poster presentation at Vizient University Health System Consortium Pharmacy Network Meeting, New Orleans, LA, December 2024.

Kielkowski B, Vargo L, Ebbert B, Cumpston A, Seago K. Implementation of antimicrobial coated central venous catheters in patients with hematologic malignancies. Poster presentation at Vizient University Health System Consortium Pharmacy Network Meeting, New Orleans, LA, December 2024.

Anderson M, Cumpston A, Seago K, Yingling S. Evaluation of the occurrence and risk factors for spontaneous cytomegalovirus clearance after low level reactivation using a pre-emptive treatment threshold of 4,000 IU/ml in seropositive allogeneic hematopoietic cell transplant recipients receiving letermovir prophylaxis. Poster presentation (#641) at Tandem Meetings of ASTCT & CIBMTR 2024, San Antonio, TX, February 2024.

Rckhold MR, Lacoste JL, Szymanski TW. Impact of Primidone CYP3A4 Induction on Ticagrelor's Pharmacodynamics: A Case Report. Presented at the 2024 ACCP Annual Meeting, Phoenix, Arizona, October 14, 2024.

Colvin BM. The secret sauce: maximizing patient longevity with durable LVAD therapy. Medical optimization with GDMT: when, how, who?. Presentation at ISHLT Annual Meeting and Scientific Sessions. Prague, Czech Republic. April 2024.

Gajda E. Collaboration of a high school pharmacy technician training program and an academic medical center. Western PA Region Pharmacy Resident Research Day. May 2024.

Hartzell A, **Harvey S, Blevins A, Conant K, Petite M.** Evaluation of duration of therapy and rationale for discontinuation of specialty medications used to treat inflammatory bowel disease. Poster presentation at ASHP Midyear Clinical Meeting in New Orleans, LA, December 2024.

Rockhold MR, Szymanski TW, Lacoste JL. Impact of primidone CYP3A4 induction on ticagrelor's pharmacodynamics: a case report. 2024 American College of Clinical Pharmacy Annual Meeting. Phoenix, AZ. October 12 – 15, 2024.

Ehrenberger L, Mehta M, Ward D. Evaluation of carbapenem-resistant *Acinetobacter baumannii* treatment. 2024 Vizient Pharmacy Network Meeting. New Orleans, Louisiana. December 7 2024.

Bunner C, Benson B, Nguyen K, Adamsick M. Antibiotic prescribing for uncomplicated gram-negative bloodstream infections concordance with expert panel recommendations. Presented at the 2024 MAD-ID Meeting, Orlando, Florida, May 9, 2024.

Hudson S, Kunkel LC, Kabulski GM, Lacoste JL. Anticoagulation after Surgical Left Atrial Appendage Occlusion. Presented at the 2024 American College of Cardiology Meeting in Atlanta, April 2024.

Egbert AE, Sokos D, Sibbesen J. Opportunity of finerenone use at a large rural health system. Presented at the 2024 Vizient Pharmacy Network Meeting. New Orleans, Louisiana. December 7, 2024.

Murchison A, Ponce A, Edwards S, Kinney A, Johnston E. Empiric Hypertonic Saline Administration in Patients with Traumatic Brain Injuries. Presented at the 2024 Vizient Pharmacy Network Meeting, New Orleans, Louisiana, December 7, 2024.

Presentations

Henderson M, **Wietholter JP, Braham MJ, Kinney E**. Evaluation of the Timing of Levetiracetam Loading and Maintenance Dosing for the Treatment of Breakthrough Seizures. 2024 ASHP Midyear Clinical Meeting, Poster #7-294. New Orleans, LA: December 10, 2024.

Casimir M, Ponce EZ, Kinney A, Friery E. Evaluation of a Novel Hyperkalemia Order Set Initiated in an Inpatient Setting. Presented at the 2024 ASHP Midyear Clinical Meeting, New Orleans, Louisiana, December 10, 2024.

Gajda E, Grimm D, Konietzko M. Innovative Advocacy: Standard of Care Pharmacy Practice Model. West Virginia University. Continuing Education. October 2024.

Lexner E, Barrett C, Ebbert B, Murto K. Evaluation of Use of Prophylactic Anticoagulation in Cancer Patients. Presented at Vizient Pharmacy Network Meeting. New Orleans, LA. December 2024.

Terrizzi J, Trickett H, Embrey S. Evaluating Dofetilide and Sotalol Use in Arrhythmias Across a Health System. Presented by Jordan at the 2024 ASHP Midyear Clinical Meeting.

Stilgenbauer S, Ball NS, Karpinski S, Martello J, Braham MJ. Sulfonylurea Deprescribing Practices at a Large Academic Medical Center. Presented at the 2024 ASHP Midyear Meeting, New Orleans, Louisiana, December 2024.

Cruickshank R, Scharman EJ, **Ponce A**. Esophageal Burns Following a Grapefruit Seed Concentrate Exposure in a Pediatric Patient. Presented at the 2024 North American Congress of Clinical Toxicology. Denver, Colorado. September 21, 2024.

Cruickshank R, **Ponce A**, Scharman E. Implementation of antidote standardized order sets across hospital systems to increase implementation of toxicology recommendations. Presented at the 2024 North American Congress of Clinical Toxicology. Denver, Colorado. September 21, 2024.

Ehrenberger L, Mehta M, Ward D. Evaluation of carbapenem-resistant *Acinetobacter baumannii* treatment. Presented at the 2024 Vizient Pharmacy Network Meeting, New Orleans, Louisiana, December 2024.

Murtaza, M., **Howard, C.**, Thompson, J., Edmond, M.B., Stevens, M.P. Impact of Infectious Diseases Consultation on the Management of *Staphylococcus aureus* Bacteremia in a Large, Predominantly Rural, Health System. Presented at ID Week 2024. Los Angeles, California. October 2024.

South T, Howard C, Stevens M. Impact of antimicrobial stewardship efforts on antibiotic prophylaxis for cesarean sections at rural academic medical center. Presented at ASHP Midyear Clinical Meeting. New Orleans, Louisiana. December 2024.

Monastra J, Gajda E, Chiplinski A, Keeting T, O'Neil D. Assessing appropriate calculation of the 4T score for screening of Heparin-Induced Thrombocytopenia. 2024 Vizient Pharmacy Network Meeting, New Orleans, Louisiana. December 2024.

Gajda E, Petersen A, **Ebbert B**. A Dose of Data: Artificial Intelligence in Pharmacy. West Virginia University. Continuing Education. May 2024.

Vest TA, Gazda NP, **O'Neil DP**, Eckel SF. Practice-enhancing publications about the medication-use process in 2022. American Society of Health-System Pharmacists Midyear Clinical Meeting 2024. New Orleans, Louisiana.

O'Neil DP, Shaafsma K. Building the Pharmacy Workforce of the Future Successfully Elevate Your CREW. American Society of Health-System Pharmacists Conference for Pharmacy Leaders 2024. Chicago, Illinois. October 2024.

O'Neil DP. Lead Facilitator – AI Implications and Considerations for Pharmacy Leaders. American Society of Health-System Pharmacists Midyear Clinical Meeting 2024. New Orleans, Louisiana.

Gunzenhauser S, Stewart A. Antibiotic De-escalation in Febrile Neutropenia. Pediatric Pharmacy Association Annual Meeting. Minneapolis, Minnesota. April 2024.

Adelman M, **McMillan A**. From Textbooks to TikTok: Precepting the Gen Z Learner, ASHP Annual Meeting, New Orleans, LA, December 2024

Presentations

Johnston ED, Scherrer N, Smith M, Brandmeir N, Zheng M, **Garavaglia JM**. Empiric Use of Milrinone in Subarachnoid Hemorrhage to Reduce the Incidence of Cerebral Vasospasm. Research Snapshot Theater Presentation at Society of Critical Care Medicine Congress. Phoenix, AZ. January 2024.

Johnston ED. April Journal Club. Society of Critical Care Medicine Carolinas/Virginias Chapter Journal Club. Virtual. April 2023.

Sibbesen J. Drugs Approved in 2023. Live Continuing Education. WVU SOP. Martinsburg WV and Parkersburg WV. April 2024.

Sibbesen J. Seeing Things More Clearly: Navigating Ophthalmology and Medication Use. WVU Medicine Ophthalmology Grand Rounds. WVU Eye Institute. May 2024.

Barton M, Mitchell R. THC and CBD: What We'd Like to Know. WVU Medicine Continuing Education Series. April 2024.

Casimir MJ. Assessing healthcare professional and student comfortability with contraceptives and their devices before and after a hands-on interprofessional education event. Presented at the 2024 NEXUS Summit, virtual, September 24-26, 2024.

Casimir MJ and Lunas A. Drug diversion. Virtual and in person at WVUH. November 26, 2024.

Casimir MJ, Johnson-Smith H, Capehart K, Sission S, Dalton K, Goodhart A, and Epperly M. Live contraceptives educational event at WVU HSC. In person. March 2024.

Hester S. Pharmacist as Expert Witness. West Virginia Prosecutors Winter Conference. Wheeling, WV. December 4, 2024.

Cumpston A. ASTCT Pharmacy SIG Rx-cited: Clinical Conundrums Unplugged - Conducting Pharmacy Research with Busy Clinical Practice – Invited Speaker; Panel Member and Moderator, December 2024.

Cumpston A. Immunosuppression Management and HCT Complications - Invited Speaker; ASTCT Pharmacy HCT Core Topics Spring 2024 Live Session, May 2024.

Cumpston A. Guest Interview. Association of Cancer Care Centers (ACCC) podcast – CANCER BUZZ Podcast – “Navigating the operational challenges of treatment with bispecific antibodies” – Podcast Episode 148. March 2024. <https://www.accc-cancer.org/home/learn/resource-detail/navigating-the-operational-challenges-of-treatment-with-bispecific-antibodies>

Szymanski T. Management of Pain and Sedation in the CVICU, WVU CVICU Grand Rounds, April 2024

Szymanski T. Management of Pain and Sedation in the CVICU, WVU Anesthesiology Grand Rounds, October 2024

Martello J. Tips for Busy Residency Program Directors - Educational Webinar. American Society of Health-System Pharmacists.

Bunner C, Garner B. Antibiotic arena: unpacking the role of ceftriaxone in MSSA infections. Live CE at Novant Health Forsyth Medical Center. May 21, 2024.

Bunner C, Garner B. Community Acquired Pneumonia CHAWI Grand Rounds Review. Virtual. Novant Health Greater Charlotte and Greater Winston-Salem Market. June 20, 2024.

Gibson E, Operations Essentials: Building Out 340B Operations - Build a Bot, 340B Coalition Summer Conference, National Harbor, MD, July 8 2024.

Shigle AJ, Hays WB. Pharmacy residency training program increases residents' confidence in inpatient medical emergency response. AJHP Voices Podcast. August 2024.

Hammond W, Valdez P. Impact of a pharmacy technician on an interprofessional antithrombotic stewardship program at an academic medical center. AJHP Voices Podcast. August 2024.

Presentations

- Phillips, M., Gutta, B.** Plugging the Drain – Supply Chain and Sterile Product Operations Partnering to Minimize IV Waste. Management Case Series Presentation at ASHP Midyear, New Orleans. December 2024.
- Kinney A.** ABCs of code blue MEDs over Live CE via PharmCon. Virtual. February 2024.
- Kinney A.** Pharmacy considerations in the Spinal Cord Injury Patient. Spinal Cord Injury Class. May, September, and November 2024.
- Kinney A.** Snakebite Management. CCTI Lunch & Learn. June 2024.
- Blevins, A.** After School Special: Specialty Pharmacy Rotations, Internships, and Residencies. American Society of Health-System Pharmacists Pharmacy Futures 2024. Portland Oregon. June 2024.
- Warunek L, **Lexner E.** Sweet Surrender: Navigating the Sugar Storm of Diabetic Ketoacidosis. Live CE at Pennsylvania Pharmacist Association Annual Conference. Harrisburg, PA. February 2024.
- Barrett C.** Updates in the management of ovarian and endometrial cancers. HOPA BCOP Updates Course. Virtual. July 2024.
- Barrett C.** Up to my neck (in head and neck cancer updates). HOPA Annual Meeting. Live. April 2024.
- Miller J, Colvin B, Kunkle L.** Antidiabetic medication adjustments after initiation of SGLT2 inhibitors in patients with heart failure with reduced ejection fraction. Western PA Region Pharmacy Resident Research Day. May 2024.
- Kiss Z.** Evaluation of Patient-Driven Constipation Action Plans for Patients Discharged from a Pediatric Hospitalist Service. Live. May 2024. 2024 PediatRxCon33 - PPA 33rd Annual Meeting
- Kiss Z.** Management of Feeding and Eating Disorders in the Pediatric Population. Virtual. January 2024
- Grimm D.** “High-Cost Medication Stewardship Perspectives From an AMC” Premier Executive Conference October 30, 2024
- Grimm D, Likar E.** “Perioperative Care Formulary Governance and Medication Use Process” ACCP Perioperative Care PRN August 28, 2024
- Ponce A.** Seaberry R. Gluca-Gone Away: Is It Time to Dispense with Glucagon for Beta Blocker Toxicity?. Live CE via ABAT Journal Club. Virtual. November 2024.
- Howard C.** All Aboard the (Steward)Ship!, West Virginia Association for Professionals in Infection Control and Epidemiology Fall Conference. Stonewall Resort - Roanoke, WV. September 2024.
- Howard C.** The Culture of Collaboration: Clinical Microbiology and Antimicrobial Stewardship, West Virginia South Central Association for Clinical Microbiology Fall Conference. Morgantown, WV. October 2024
- Shahan J.** Let’s Spill Some Tea – Simulation-Based Hazardous Spill Drills Clinical Pearl. American Society of Health-System Pharmacists Midyear Clinical Meeting 2024, New Orleans, LA.
- Cecere D, Phillips M.** Reducing Pharmacy Costs Through Management of Drug Shortages and IV Waste. Premier Breakthrough 2024
- Cecere D.** Drug Shortages - The Cost of Doing Business. Premier Pharmacy Executive Conference 2024
- Patel K.** Evolving Technician Roles in Health System Specialty Pharmacy. The American Society of Health-System Pharmacists (ASHP) Pharmacy Futures; Portland, OR. June 8-12, 2024
- Mitchell R.** Certified Specialty Pharmacist Exam Prep Course: Hepatitis. National Association of Specialty Pharmacy (NASP)

Awards & Other Recognitions

Aaron Cumpston, PharmD, BCOP

- WVU School of Pharmacy Hall of Fame

Alex Kinney, PharmD, BCCCP

- Runner-up for the Pharmacy-To-Dose Podcast 2024 Article of the Year

Amanda Shigle, PharmD, BCCCP

- Enterprise Critical Care Co-Chair

Catessa Howard, PharmD, BCIDP

- WVU Medicine Bravo 2024 WVUH Annual Awards Ceremony - Performance Improvement Team Award for Exemplary Outcomes - "Cesarean Delivery SSI Task Force"
- In collaboration with Kelly Smith, Pharmacy Manager at Fairmont Medical Center, achieved Platinum status for the WV Office of Epidemiology and Prevention services Maximizing Efforts Dedicated to Antimicrobial Leadership and Stewardship (MEDALS) Program for the Fairmont Medical Center Skilled Nursing Unit

Daniel P. O'Neil, PharmD, MS, FASHP

- American Society of Health-System Pharmacists (ASHP) Fellow - ASHP Board of Directors - Granted March 2024
- America's Essential Hospitals Fellowship - America's Essential Hospitals Institute - Granted March 2024

Dave Cecere, PharmD, MBA

- Chris Jones Memorial Award, Compounding Excellence Award

Dixie Pyles, PharmD

- 2024 Residency Research Award

Jon Wietholter, PharmD, BCPS, FCCP

- Served as a Fulbright Specialist for the U.S. Department of State: Bureau of Educational and Cultural Affairs for a 3-week project titled "Development of an Integrated Modular PharmD Curriculum" with the University of Cape Coast School of Pharmacy in Cape Coast, Ghana

Jordan Lacoste, PharmD, BCCP

- Designated Associate of the American College of Cardiology (AACC)

Karen Petros, PharmD

- The Cornerstone of Recovery Award at the Jon Michael Moore Trauma Center Night of Recognition

Maegan Casimir

- Individual Student Award for Interprofessional Collaborative Practice
- The Merk Outstanding Student in Pharmacy Award
- Statewide 2nd place champion in the WV self-care challenge
- ASHP Clinical Skills competition WVU 2nd place winner

Awards & Other Recognitions

Melissa Knopp, PharmD

- The Mountain State Cystic Fibrosis team received the Outstanding Care Center Partnership award by the Wester PA chapter of the Cystic Fibrosis Foundation

Randa Westbrook, CPhT

- Children's Hospital Delivering the Best Award

Samantha Manson, PharmD, MBA

- Invited to interview and comment based on previous HCV-related projects for a Specialty Pharmacy Continuum article titled: "SP Pharmacist-Led ED Program Boosts Hepatitis C Treatment" in the October 2024 edition.

Samuel Yokum, PharmD, MBA

- Masters in Business Administration - Healthcare

Sarah Woodford

- WVU Medicine Children's Employee Experience Board member

Thomas Szymanski, PharmD, BCCP, BCCCP

- ACCP CardSAP Chapter Reviewer
 - Antithrombotic Therapy for Valvular Heart Disease in Arrhythmias and Thrombosis
 - Peripheral Arterial Disease in Atherosclerotic Cardiovascular Diseases

Tyler Bailey, PharmD

- Recognized for providing exceptional care to a pediatric trauma patient at the John Michael Moore Trauma Night of Recognition

Committee Appointments

American Association of Colleges of Clinical Pharmacy (AACCP)

- Ashlee McMillan, PharmD, BCACP - Laboratory Instructors SIG Immediate Past-Chair
- Jon Wietholter, PharmD, BCPS, FCCP
 - External Affairs Committee, Adult Medicine PRN, Vice-Chair: 2023-2024
 - ACCP Credentials (FCCP) Committee, Member 2024-2025
 - Member Engagement Committee, Adult Medicine PRN, Member: 2024-2025
- Maegan Casimir - Aspiring Academics National Trainee

American Society of Health-System Pharmacists (ASHP)

- Abbi Blevins, PharmD, MBA, CSP, CTTS - Section of Specialty Pharmacy Practitioners (Director-at-Large Elect)
- Ashlee McMillan, PharmD, BCACP - Section of Pharmacy Educators Advisory Group
- Benjamin Bredhold, PharmD, BCPS - Section of Pharmacy Educators Advisory Group on Development of Post-Graduate Education and Learning Experiences
- Briana Kocher, PharmD, BCACP - Section of Ambulatory Care Practitioners Advisory Group on Clinical Practice Advancement
- Daniel O'Neil, PharmD, MS, FASHP
 - Section Advisory Group on Strategy & Industry Disrupter - Section of Pharmacy Practice Leaders (Chair)
 - Council on Pharmacy Management
- Derek Grimm, PharmD, BCPS - SPPL SAG on Business Development and System Integration
- Dmitry Walker, PharmD, MS - Section Advisory Group on Strategy and Industry Disruptors
- Emily Gajda, PharmD - Pharmacy Administration & Leadership Residents Collaborative - Advocacy & Practice Advancement Work Group
- Evan Turco, PharmD, BCPS - SSPP Accreditation & Compliance SAG
- Hannah Trickett, PharmD, BCPS - SICP Medication Management Section Advisory Group
- Rachel Michell - SSPP SAG on Operational and Workforce Development
- Jeffrey Mick, PharmD - SSPP SAG on Operational and Workforce Development
- Jessica Stewart, PharmD, CPS - Section of Specialty Pharmacy Practitioners Business Development
- Luning Shi, PharmD, MS, BCPS - New Practitioners Forum Executive Committee (Vice Chair)
- Maegan Casimir
 - Student Forum
 - Advancement of Professional Practice Advisory Group Committee
- Michelle Howerton, PharmD, BCACP, BCGP - Section Advisory Group of Ambulatory Care Practitioners on Clinical Practice Advancement
- Mileena Kendall, CPhT-Adv, CSPT - Section of Pharmacy Practice Leaders Advisory Group on New and Emerging Leaders
- Samantha Manson, PharmD, MBA - Section of Specialty Pharmacy Practitioners, Outcomes and Value Section Advisory Group
- Samuel Yokum, PharmD, MBA
 - Section of Specialty Pharmacy Practitioners Business Development SAG (2023-2024)
 - Section of Specialty Pharmacy Practitioners Business Development SAG Workgroup (Chair) - Strategies for Access (2024-current)
- Thomas Szymanski, PharmD, BCCP, BCCCP
 - Educational Steering Committee; Section of Clinical Specialists and Scientists (Work Group Lead)
 - Council on Therapeutics
- Chelsea Moyer, PharmD - Section Advisory Group on Strategy and Industry Disruptors

Committee Appointments

Advanced Topics for Oncology Pharmacy Professionals (ATOPP)

- Dmitry Walker, PharmD, MS - Program Planning Committee (Chair)

Allegheny County Pharmacist Association

- Erin Lexner, PharmD, BCPS - (Secretary)

American College of Clinical Pharmacy (ACCP)

- Bailey Colvin, PharmD, BCCP
 - Communications and Social Media Committee, Cardiology PRN
 - Communications Committee, Education and Training PRN
- Matthew Rockhold, PharmD, BCCP
 - Cardiology PRN Communications and Social Media Committee - (Subcommittee Chair)
 - Cardiology PRN Research and Scholarship Committee
 - Membership Committee
- Thomas Szymanski, PharmD, BCCP, BCCCP
 - Cardiology PRN Nominations Committee
 - Task Force on Member Engagement (Vice Chair)

American Society for Transplantation and Cellular Therapy (ASTCT)

- Aaron Cumpston, PharmD, BCOP - Pharmacy SIG Research Committee

Board of Pharmacy Specialties (BPS)

- Meera Mehta, PharmD, BCIDP - Board Certified Infectious Diseases Pharmacist (BCIDP) Specialty Council
- Thomas Szymanski, PharmD, BCCP, BCCCP - Cardiology Pharmacy Specialty Practice Council (2025 - 2027)

Children's Oncology Group (COG)

- Aaron Stewart, PharmD, CTTS - Pharmacy Member Engagement Committee

ECOG-ACRIN Cancer Research Group

- Aaron Cumpston, PharmD, BCOP
 - Pharmacy Committee
 - Leukemia Committee

Hematology Oncology Pharmacist Association (HOPA)

- Erin Lexner, PharmD, BCPS - Student Advisory Group

Kappa Psi Pharmaceutical Fraternity

- Alyssa Williams
 - Mountain East Province - (Historian)
 - Mountain East Province - Province Planning Committee
- Skye Edwards, PharmD, BCCCP - Mountain East Province Professional Development Committee (Chair)
- Zak Kiss, PharmD - WV Graduate Chapter Historian

International Health Facility Diversion Association (IHFDA)

- Shannan Molnar, BS Pharm - Policy and Guideline Steering Committee

National Society of Specialty Pharmacy

- Jordan Nicholls, PharmD

Committee Appointments

International Society for Heart and Lung Transplantation (ISHLT)

- Bailey Colvin, PharmD, BCCP - Pharmacy Representative, Early Career and Trainee Committee

Lambda Kappa Sigma Pharmacy Fraternity

- Erika Ponce, PharmD, BCPS, BCCCP - (Region Supervisor)
- Erin Lexner, PharmD, BCPS - (Region Supervisor)

Pharmacy Technician Certification Board (PTCB)

- Lisa Garavaglia, PharmD, BCPPS - Exam Development Committee (EDC)

Phi Lambda Sigma Pharmacy Leadership Society

- Sarah Long - Chapter Development Committee

Society of Critical Care Medicine (SCCM)

- Alex Kinney, PharmD, BCCCP - Carolinas/Virginias Chapter Research Committee
- Amanda Shigle, PharmD, BCCCP
 - CPP Membership Committee
 - Carolinas/Virginias Chapter Membership Committee
- Nicole Scherrer, PharmD, BCCCP - Carolinas/Virginias Chapter (Board of Directors)
- Skye Edwards, PharmD, BCCCP - Carolinas/Virginias Chapter Communications Committee

Society of Infectious Diseases Pharmacists (SIDP)

- Meera Mehta, PharmD, BCIDP - Podcast Committee

Vizient Pharmacy Network

- Dmitry Walker, PharmD, MS - Pharmacy Development and Workforce Committee - (Chair)
- Hannah Trickett, PharmD, BCPS - Vizient Business of the Pharmacy Enterprise Committee
- Julia Miller, PharmD - Ambulatory Pharmacy Development Committee
- Kelsi Conant, PharmD, CSP - Ambulatory Development Committee, Member of the Outcomes and Benchmarking Workgroup
- Samantha Manson, PharmD, MBA - Ambulatory Pharmacy Development Committee Social Determinants of Health Workgroup
- Chelsea Moyer, PharmD - Pharmacy Development and Workforce Committee

West Virginia Pharmacists Association (WVPA)

- Christine Barrett, PharmD, BCOP - (Director-at-Large)

West Virginia Society of Health Systems Pharmacists (WVSHP)

- Catessa Howard, PharmD, BCIDP - (Treasurer)
- Derek Grimm, PharmD, BCPS - (Board Member at Large)
- Hannah Trickett, PharmD, BCPS - (President-Elect)
- Thomas Szymanski, PharmD, BCCP, BCCCP - New Practitioners Committee (Chair)

WVU School of Pharmacy

- Maegan Casimir
 - WVU Center for Excellence in Disabilities
 - WV Leadership Education in Neurodevelopmental Disabilities (LEND) Trainee

340B Health

- Karen Famoso, BS Pharm, MBA - Ambassador

Certifications

American Pharmacists Association (APhA)

- Maegan Casimir - The Pharmacist & Patient-Centered Diabetes Care

ASHP Billing and Reimbursement Certificate

- Michael Mezzapelle

ASHP Medication Safety Certificate

- Brett Harmon

Associate of the American College of Cardiology (AACC)

- Matthew Rockhold

Board Certified Ambulatory Care Pharmacist (BCACP)

- Mary Ann Hill

Board Certified Cardiology Pharmacist (BCCP)

- Matthew Rockhold

Board Certified Critical Care Pharmacist (BCCCP)

- Eric Johnston

Board Certified Infectious Diseases Pharmacist (BCIDP)

- Megan Hardy

Board Certified Pharmacotherapy Specialist (BCPS)

- Connor Digman
- Emma Platt

Certified Tobacco Treatment Specialist (CTTS)

- Dorian Roberts
- Lisa Hostutler

Healthcare Financial Management Association Specialist Payment & Reimbursement

- Samantha Younciak

Pharmacy Technician Certification Board (PTCB)

- Bernie Soccorsi-Long - Controlled Substances Diversion Prevention
- Chalyon Harris - Certified Compounded Sterile Preparation Technician
- Kim Lusk - Controlled Substances Diversion Prevention
- Lindsay Mancuso - Billing & Reimbursement
- Michael Mezzapelle - Billing & Reimbursement
- Mileena Kendall - Advanced Certified Pharmacy Technician
- Sarah Woodford - Advanced Certified Pharmacy Technician
- Shawnee Rosenberger - Advanced Certified Pharmacy Technician

