



PHARMACY

ANNUAL REPORT

2025



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CHIEF PHARMACY OFFICER & SYSTEM VICE PRESIDENT



Welcome to the 2025 Department of Pharmacy Annual Report. This report highlights the achievements and impact of our teams across WVUH and the Pharmacy Enterprise over the past year. As we conclude our 2023–2025 strategic plan, we are finalizing our next three-year roadmap to guide continued growth and innovation. Throughout 2026, we will share progress and outcomes from these initiatives at departmental meetings.

I am incredibly proud of our teams and their unwavering commitment to improving the lives of West Virginians and all those we serve. As WVU Medicine looks toward its 2035 Strategic Plan, our mission remains unchanged: advancing excellence in patient care, research, and education. Our work will continue to focus on four strategic pillars:

- Deliver a fully integrated continuum of care across our service area
- Foster an exceptional place to work and practice
- Provide superior access, care, and patient experience
- Lead the nation in rural population health management

Thank you for your dedication, professionalism, and compassionate care. Because of your efforts, we are well positioned to meet the challenges of a rapidly evolving health care environment and accomplish even more together in 2026.

Key Accomplishments

- Opened a new Acute Care Pharmacy at Fairmont Medical Center
- Dispensed 4.28 million doses across WVUH and Fairmont inpatient pharmacies
- Reduced drug cost per adjusted patient day by >10% versus 2024
- Graduated 23 residents while supporting 163 APPE/IPPE rotations
- Expanded OPAT/COPAT programs and implemented barcode scanning at MBRCC clinics
- Completed full go-live of DrFirst, enabling >26,000 pharmacy-driven medication histories
- Strengthened system-level drug diversion oversight with >99% pump library compliance
- Launched dispense tracking in the Birthing Center and Pediatric Infusion Center
- Surpassed 500,000 retail prescriptions and achieved record specialty and home infusion performance
- Standardized the repackaging center, supplying >400,000 unit doses systemwide
- Successfully completed HRSA 340B audits, generating record program savings
- Conducted 25+ Medication Use Evaluations with national presentations
- Far too many publications, awards, committee appointments to mention

Warmest regards,

Todd Karpinski, PharmD, MS, FASHP, FACHE
Chief Pharmacy Officer and System Vice President
Assistant Dean – Health System Services



Our Vision

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

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

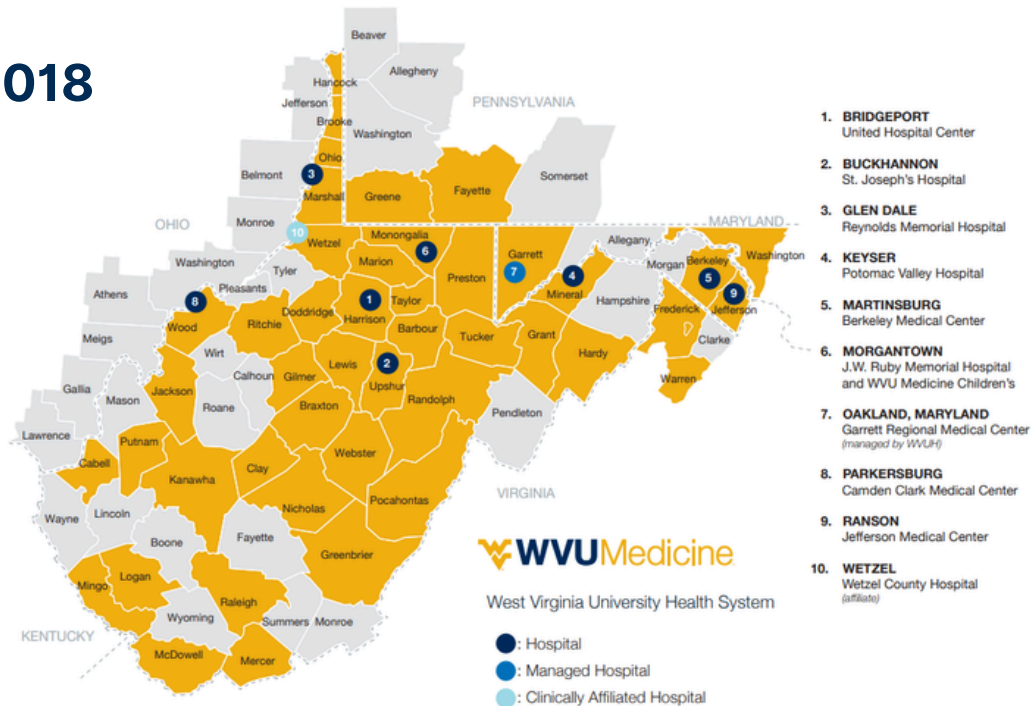
Drive Financial Performance

Educate and Innovate

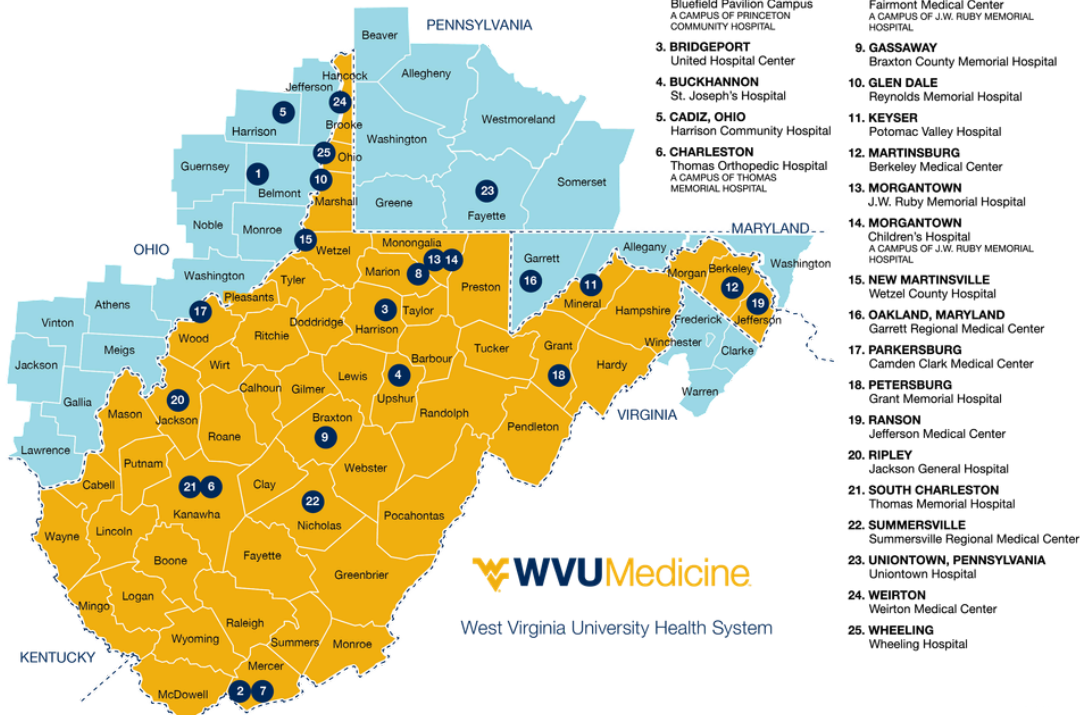
Improve Quality of Patient Care

WVU Medicine Health System Growth

April 2018



December 2025

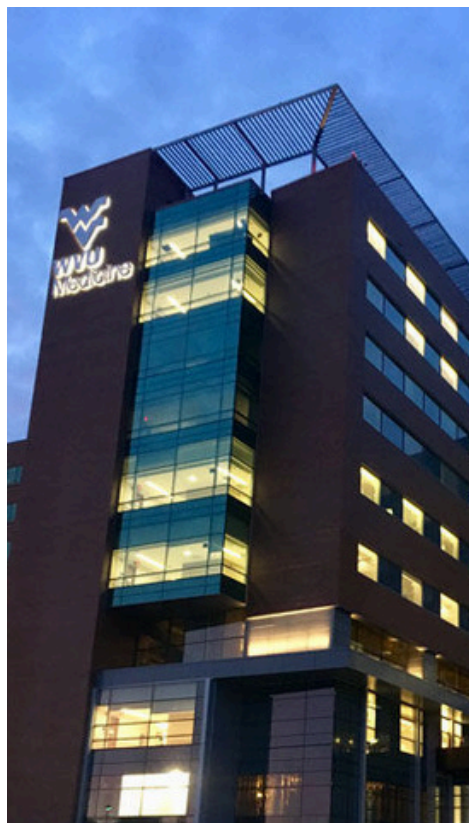


Looking Forward

WVU Medicine will expand its footprint heading into 2026 with the acquisition of six more hospitals, positioning the organization to become a 31-hospital system.

Strategic Plan

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

- Assess pharmacist and other non-pharmacist job roles and pay grades to prepare for the implementation of a career ladder
- Standardize and systemically roll-out pharmacy technician career ladder across all WVUHS sites
- 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
- Launch Centralized Service Center to service health system

IMPROVE FINANCIAL PERFORMANCE

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

2025 Employees of the Month

January



Catessa Howard,
PharmD, BCIDP

February



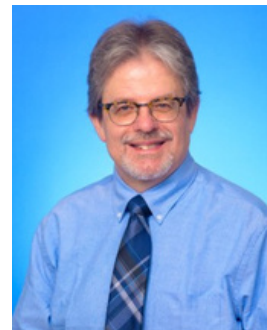
Kelly Collins,
PharmD

March



Kristen
Dubowski,
PharmD

April



Tim Fields,
CPhT

May



Aaron Cumpston,
PharmD, BCOP

June



Nicole Kovacic
Scherrer,
PharmD, BCCCP

July



Sherri Coleman,
CPhT

August



Jocelyn Altayeb,
CPhT

September



Maxwell Von
Schubel, PharmD

October



Janelle Schmidt,
MS

November



Alex Ponce,
PharmD, BCEMP,
DABAT

December



Jared Smoot,
CPhT

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.

WVU Hospitals & Clinics



Daniel O'Neil, PharmD, MS, FASHP, FACHE

Assistant Vice President, WVU Hospitals & Clinics

J.W. Ruby Memorial Hospital &
Golisano Children's Hospital



Ambulatory & Transitions of Care



Fairmont Medical Center



Medication Safety & Compliance



Retail Pharmacy Services



Oncology & Investigational Drug Services



J.W. Ruby Memorial Hospital Operations & Fairmont Medical Center

> 4.28 million

DOSES DISPENSED

> 10% reduction

**IN COST PER ADJUSTED
PATIENT DAY VS 2024**

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.



**Jordan Carter,
PharmD, MS**

Director, Adult Acute
Care Operations



**Marc Phillips, PharmD,
CPHQ, 340B ACE**

Assistant Director,
Supply Chain and
Business Development



**Bradley Gutta,
PharmD, MHA, BCPS**

Pharmacy Manager,
Perioperative Services and
Controlled Substances



**MJ Braham,
PharmD, MHA**

Pharmacy Manager,
Central Operations



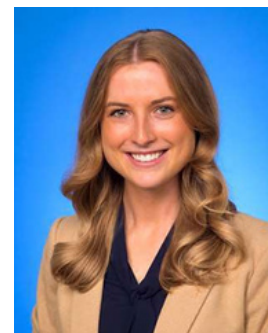
**Lauren Ray,
PharmD, MBA**

Pharmacy Manager,
Sterile Products



**Kelly Smith,
RPh, MS**

Pharmacy Manager,
Fairmont Medical Center



**Chelsea Moyer,
PharmD, MHA**

Pharmacy Manager, Business
Development and Finance

J.W. Ruby Memorial Hospital Operations & Fairmont Medical Center

Central Operations

- Modernized the Patient Own Medication process by shifting from a paper-based system to an electronic Epic-integrated workflow, improving documentation, compliance, and efficiency
- Added an auxiliary cabinet to the ED4 Omnicell, expanding capacity by approximately 200 medications and enhancing emergency-department accessibility

Fairmont Medical Center

- Successfully planned for and relocated to a brand-new Acute Care Pharmacy, including non-hazardous and hazardous sterile compounding
- Implemented Omnicell Controlled Substance Manager (CSM), Omnicell Central Pharmacy Manager (CPM), and Omnicell Satellite Pharmacy Manager (SPM) to fully automate inventory management
- Recruited for and hired 10 new FTE in preparation for expansion of pharmacy services



Ribbon cutting ceremony, Fairmont Medical Center

Sterile Products and Perioperative Services

- Implemented Compounding and Repackaging (CNR) for batched sterile products
- Implemented five new Neurosurgery operating rooms, along with associated pre-op, post-op, and CT 6 North
- Established a standardized workflow for Exparel ordering, dispensing, and administration, with a multi-disciplinary workgroup ensuring consistency and safety

Pharmacy Supply Chain

- Decreased pharmacy cost per average patient days by greater than 10% over FY 2024
- Creation of local Business Development team to assist with revenue cycle management for WVUH pharmacy cost centers, including 2026 expansion of 4.0 FTE to lead medication waste billing and clinic prior authorization support

J.W. Ruby Memorial Hospital

Clinical Services and Education



Mike Konietzko,
PharmD, MS, BCPS

Assistant Director,
Adult Clinical Services & Education

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.



April Chapman,
PharmD, MBA, BCCCP

Pharmacy Manager, Adult
Critical Care, Surgery, &
Emergency Medicine



Kelli Phipps,
PharmD, DPLA

Pharmacy Manager,
Adult Medicine &
Cardiology

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 plus 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.



Matt Whiteman,
PharmD, BCPPS

Pharmacy Manager,
Residency & Education



Adult Clinical Pharmacy Services

↑ **2,729,368**

Orders Verified

↑ **132,273**

Pharmacy Interventions

↑ **47,205**

Notes Placed

↑ **6.16**

Average Length of Stay (Days)

↑ **614**

Average Daily Census

↑ **2.2**

Average Case Mix Index

2025 Adult Clinical Pharmacy Services and Education Highlights

In 2025, Adult Clinical Pharmacy Services demonstrated resilience and innovation in addressing challenges and advancing patient care. Key themes from adult clinical services from 2025 that reflect our strategic priorities include:

1. Epic System Optimization and Standardization

- Range Orders for Titratable Infusions
- Fentanyl Infusion Conversion to Non-weight Based Infusions
- Hepatorenal Syndrome Order Set
- Epoprostenol for Raynaud Order Set
- Emergency Narrator Optimization

2. Enhanced Service Line Support

- Dedicated pharmacist coverage for neurology and neuro-stroke service lines
- Dedicated cardiothoracic surgery pharmacist coverage
- Enhanced hospitalist/surgery service line coverage

3. Drug Shortage Management

- Management of prolonged shortages of critical medications such as IV lorazepam, levofloxacin, and cyanokits
- Mitigation strategies
 - Epic hard/soft stop alerts
 - Alternative therapy recommendations (e.g., oral conversions, therapeutic interchange)
 - Centralization of scarce inventory and workflow changes (e.g., CRRT order set updates)

4. Protocol and Policy Updates

- Oral to gastric conversion protocol allowing for more timely route adjustments
- Push dose vasopressor policy update safely expanding access to these products house wide
- Stress ulcer prophylaxis protocol update allowing for the more timely initiation or discontinuation of stress ulcer prophylaxis agents

PHARMACY RESIDENCY & EDUCATION



2025-2026 Residency Class

23

Residents

85

PGY1 Rotations

93

PGY2 Rotations

Residency

The WVU Medicine Pharmacy Residency Program is celebrating our 40th anniversary this year! Our program was started in 1985 by then Residency Coordinator, Art Porembe, and accredited by ASHP in 1987. Since the program's inception, 40 classes have completed the program, consisting of over 200 resident alumni. The programs continues to gain national exposure, having had residents from schools across the country and an alumni base that ventures out to service patients across the United States.

There has been a recent Residency Program Director (RPD) change with Miranda Norvell now taking over the Internal Medicine PGY2 program. We would like to thank Jay Martello for his service in leadership as the previous IM RPD for the past 14 years! We also started a new PGY1 with a focus in ambulatory care for the 2025-2026 year with Michelle Howerton serving as the RPD.

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



102

*Total
Students*

80

*Total
Preceptors*

21

*Practice
Sites*

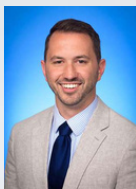
127

*APPE
Rotations*

36

*IPPE
Rotations*

PHARMACY RESIDENCY & EDUCATION



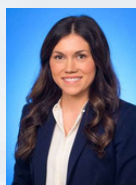
PGY1 ACUTE CARE

RPD - Matt Whiteman, PharmD, BCPPS
RPC - Ashlee McMillan, PharmD, BCACP



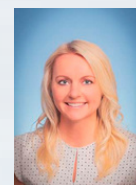
PGY1 AMBULATORY CARE

RPD - Michelle Howerton, PharmD, BCACP, BCGP
RPC - Anastasia Digman, PharmD, CTTS



PGY1 COMMUNITY-BASED (SPECIALTY)

RPD - Abbi Blevins, PharmD, MBA, CSP, CTTS
RPC - Kelsi Conant, PharmD, CSP



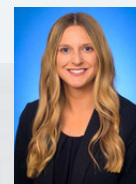
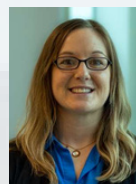
PGY1 PEDIATRICS

RPD - Courtney Sweet, PharmD, BCPPS
RPC - Kayla Dilcher, PharmD, BCPPS



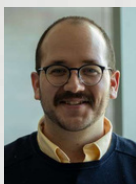
PGY1/2 HSPAL

RPD - Todd Karpinski, PharmD, MS, FASHP, FACHE
RPC - Dan O'Neil, PharmD, MS, FASHP, FACHE



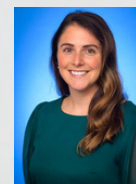
PGY2 AMBULATORY CARE

RPD - Briana Kocher, PharmD, BCACP
RPC - Carrie Betras, PharmD, BCACP



PGY2 CARDIOLOGY

RPD - Galen Kabulski, PharmD, BCCP
RPC - Rachael Schauble, PharmD, BCCP



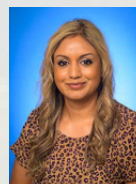
PGY2 CRITICAL CARE

RPD - Nicole Kovacic Scherrer, PharmD, BCCCP
RPC - Alex Kinney, PharmD, BCCCP



PGY2 INTERNAL MEDICINE

RPD - Miranda Norvell, PharmD, BCPS
RPC - Jay Martello, PharmD, BCPS



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



PGY2 PEDIATRICS

RPD - Courtney Sweet, PharmD, BCPPS
RPC - Emily Clemons, PharmD, BCPPS

Antithrombotic Stewardship

The Antithrombotic Stewardship (ATS) Program focuses on optimizing outcomes of patients on antithrombotic therapy across West Virginia University Hospitals. Program goals include improving bleeding event rates due to anticoagulants, reducing hospital acquired venous thromboembolisms (HA-VTE), enhancing transitions of care, and educating patients and providers about anticoagulants. This multidisciplinary team is comprised of two clinical pharmacy specialists, one clinical pharmacy technician, two quality nurse specialists, and is overseen by a physician medical director.

Transitions of Care

- The ATS Clinical Pharmacy technician documented a total of 794 patients reviewed on newly started oral anticoagulants. Each patient was assessed for cost/affordability, prescription transcription, and medication pick up after discharge
 - Over 270 opportunities for optimization were identified and acted upon
- Throughout 2025, ATS nurses provided anticoagulation education to 1,572 patients (98.6% of eligible new starts). In November, in-person education was launched prior to discharge, with follow-up phone calls within one week to ensure safe anticoagulation at home.

Clinical

- High risk patients on anticoagulation were identified by the team's Epic Alert Scoring Tool for review; over 8000 alerts were evaluated by the ATS pharmacists in 2025.
- ATS pharmacists supported Joe Monastra, PharmD, and Emily Gajda, PharmD, on a two-year project evaluating appropriate calculation of the 4T score for heparin-induced thrombocytopenia screening. The project resulted in approval to update the HIT 4T scoring tool and initial treatment recommendations within the HIT order set.
- In collaboration with PGY-2 Oncology resident Sangnya Upadhyaya, PharmD, benign hematology and ATS pharmacists completed a Medication Use Evaluation assessing local thrombophilia testing and anticoagulant prescribing trends. This work will inform education and formal guidance on best practices for thrombophilia lab ordering at WVUH in 2026.
- ATS completed an update to pharmacist-managed heparin with anti-Xa monitoring accompanied by a formal protocol and new dosing charts. Additionally, revisions were made to standard heparin protocol naming and accompanying guidance for use.
- Led by PGY-2 Cardiology resident Paul Badua, PharmD, and ATS, new RxAcuity tools were implemented to support antiplatelet de-prescribing, including an expanded "Antithrombotics" section with active therapies and guidance to streamline antithrombotic regimens.
- Since the inception of the Pharmacist to Dose Warfarin protocol in January 2023, the ATS pharmacists continue monitor PTD service performance and provide support as necessary:

Pharmacist-to-dose Protocol Impact on Patient Encounters with an INR ≥ 5		2025
All services mean patient encounters with INR ≥ 5		11%
No Pharmacist-to-Dose Protocol		18.1%
Pharmacist to Dose Protocol		7.5%

80.8%

**Percent
Pharmacist-Managed
Warfarin Regimens**

11%

**Overall Rate of INR
 ≥ 5 Hospital-Wide**

7.5%

**Rate of INR ≥ 5
when Managed by
Pharmacists**

16.2%

**Rate of INR ≥ 5
when Not Managed
by Pharmacists**

Infectious Diseases Pharmacy Services

The Infectious Diseases Pharmacy Services team consists of two lead clinical pharmacy specialists, five clinical pharmacy specialists, two nurses, and one administrative assistant.

2025 Achievements

- Expanded the ID Pharmacy Services team by gaining an LPN, Christy Kisner, and a per diem Infectious Diseases pharmacist, Ali Earl!
- Meera Mehta was promoted to Lead Clinical Pharmacy Specialist – Clinical Education & Ambulatory ID services!
- Continuation of participation in the interdisciplinary ECHO series: Statewide Antimicrobial Stewardship: OPAT and COpAT



Antimicrobial Stewardship (AMS)

- Hosted third annual WVU Medicine Foundations of Antimicrobial Stewardship Seminar Day with participants from across the system.
- Maintained total WVUH anti-infective spend per patient day in 2025 with a monthly average of \$11.93/patient day.
- The Infectious Diseases MedCompass web-based application continues to be a successful tool in providing best practice recommendations for infectious diseases to best serve our patients.
 - In 2025, the web-based application has been accessed > 11,000 times with > 40,000 file views
- WVUH antimicrobial use trends remain favorable in 2025. The top 3 antimicrobials in 2025 are cefazolin, piperacillin/tazobactam, and cefepime.
 - This is the first time in recent history that vancomycin has not made the list of the top 3 antimicrobials.

7

"Infectious Conversations" podcast episodes

2

Publications in peer-reviewed journals

2

Pharmacy continuing education presentations

2

State presentations at the West Virginia Pharmacy Association Annual Conference and the 21st Annual HIV WV Conference

1

Regional presentation with MAATEC

Outpatient Parenteral Antimicrobial Therapy (OPAT)

- 1,535 OPAT consults were completed in 2025
- In 2025 the ID Pharmacy Services team worked to optimize OPAT workflows, prioritizing intravenous to oral antimicrobial transitions when applicable and ensuring appropriate follow-up for OPAT patients by working to coordinate Infectious Diseases clinic follow-up appointments. The OPAT team also welcome a new physician to the group, Dr. Sejal Morjaria!

Complex Outpatient Antimicrobial Therapy (COpAT)

- 792 COpAT consults were completed in 2025
- Due to continued growth of the COpAT Program, the ID Pharmacy Services expanded to include a dedicated LPN to the COpAT program

87%

AMS Intervention Acceptance Rate

84%

OPAT Intervention Acceptance Rate

92%

COpAT Intervention Acceptance Rate

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

Oncology & Investigational Drug Services



Dmitry Walker, PharmD, MS

Director,
Oncology & Investigational Drug Services



Luna Shi, PharmD, MS, BCPS

Pharmacy Manager,
Oncology & Investigational Drug Services

Quality & Medication Safety

- Oral Oncolytic Prospective Verification Queue: Implemented a dedicated verification workflow for all oral oncolytic home medication prescriptions prior to sending to external pharmacies, strengthening safety oversight for high risk therapies across ambulatory settings.
- Ambulatory Barcode Medication Administration (BCMA): Successfully went live with vaccine administration barcode scanning across all MBRCC ambulatory clinics, enhancing medication safety while simultaneously improving charge capture accuracy and workflow efficiency.

97,201

MBRCC Clinic and Infusion Visits

2,665

*Rockefeller Neuroscience Institute
Infusion Visits*

287,218

Medication Orders Verified

140

Active Clinical Trials Supported



Oncology & Investigational Drug Services

Workforce Development, Engagement & Education

- Career Ladder Advancement: Designed and implemented new roles to support retention, professional growth, and operational excellence, including: Lead Pharmacist Generalist, Pharmacy Technician Supervisor, Clinical Pharmacy Technician
- Interdisciplinary Collaboration: Strengthened pharmacy integration with nursing, providers, and operational partners through daily clinical collaboration and team based care models.
- Education & Training: Continued robust student and residency precepting. The Oncology division has precepted 6 APPE students, 10 IPPE students, and provided 36.5 total residents' rotations.



Financial Stewardship & Operational Excellence

- Medication Waste Billing Optimization: Launched a technician driven waste documentation and billing process in July 2025, averaging 6,478 lines of billable waste per month, significantly improving revenue capture and compliance.
- Ambulatory Oncology Infusion Continuity (AOIC) Workflow: Built a unique virtual unit to support oncology inpatient discharges with 107 medications administered in 2025, ensuring continuity of pharmacy services across transitions of care.
- Biosimilar & 505(b)(2) Optimization: Actively monitoring and optimizing biosimilar utilization for 13 oncology medications to preserve patient access and reduce drug spend. Ongoing management of 53 505(b)(2) NDCs to prevent HCPCS related claim denials and revenue loss
- Omnicell Inventory Reliability: Achieved a 57% reduction in Omnicell stock outs, reaching a sustained stock out rate of 0.27% by the end of 2025.
- Protection of Sensitive Populations Medication Supply: Collaborated with the Enterprise Pharmacy Solutions team to move the "3- month shortage protection stock" sterile oncology therapies from WVUH CC Pharmacy to the new Warehouse.



Innovation & Growth

- Investigational Drug Services (IDS): Supported 140 active clinical trials with 905 patients enrolled over the past 12 months
- IDS Payment Modernization: Transitioned pharmacy clinical trial service charges from check based payments to an electronic payment system, improving cash flow, transparency, and administrative efficiency.
- Infusion Center Expansion: Added four new infusion chairs at Rockefeller Neuroscience Institute and successfully obtained 340B program status in August 2025, expanding access to patient care while strengthening financial sustainability.



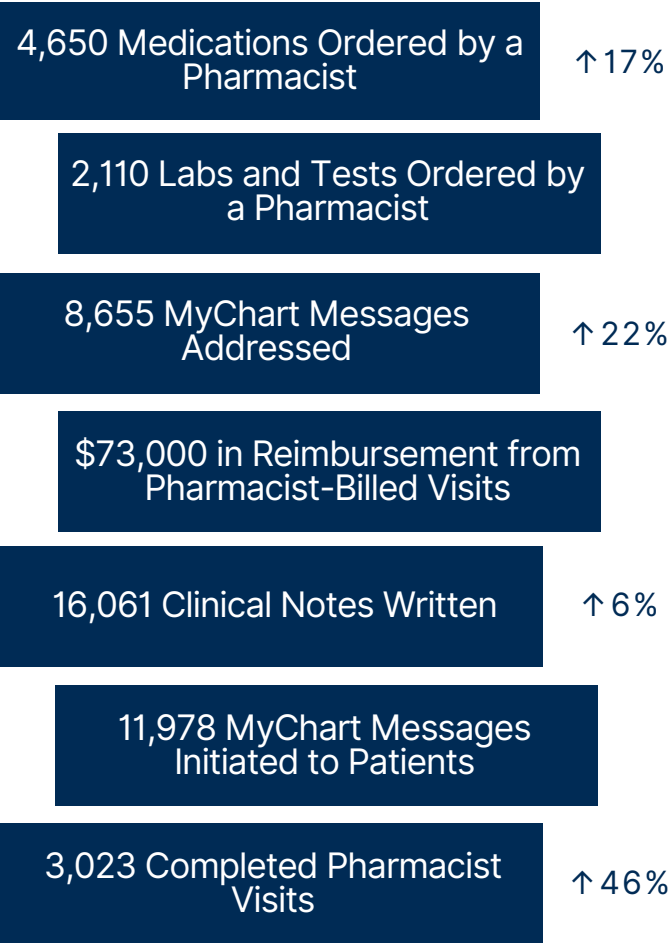
Will Hammonds,
PharmD, MS, BCPS

Pharmacy Manager,
Ambulatory & Transitions of Care

The ambulatory care division continued to grow in 2025 with expansion in both services and personnel. In May, the department welcomed a new clinical pharmacy practitioner to support the rheumatology clinic at Suncrest Towne Centre. The division also successfully matched its first PGY1 ambulatory care resident, who is progressing well within the program. The team continued to represent the profession in 2025 through leadership at a pediatric diabetes camp, coordination of multiple local and regional multidisciplinary educational events, participation in grant-funded research, and representation on the national stage through platform presentations, podcasts, and publications.

Our Clinical Pharmacy Practitioners practice at the top of their license, many of who bill independently for pharmacist-provided patient visits. Efforts to expand pharmacist scheduled visits continued through the introduction of medical weight management referrals and the addition of new disease states within existing referral pathways. These efforts resulted in a 46% increase in total pharmacist visits compared to the previous year.

At the end of 2025, the division received approval for additional growth in 2026. Approved positions include a clinical pharmacy practitioner to support the Rockefeller Neuroscience Institute Memory and Movement Disorders clinics and a clinical pharmacy technician to support post discharge medication reconciliations in the Transitions of Care Clinic. Approval was also received to promote one clinical pharmacy practitioner to a lead pharmacy specialist role in 2026, creating a professional growth opportunity within the expanding team.



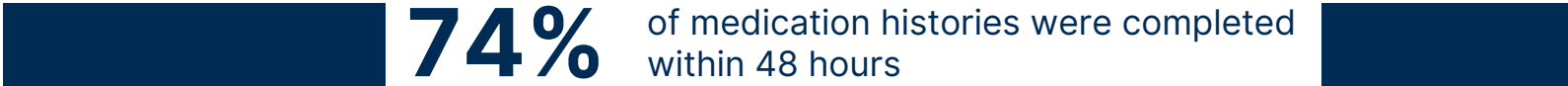
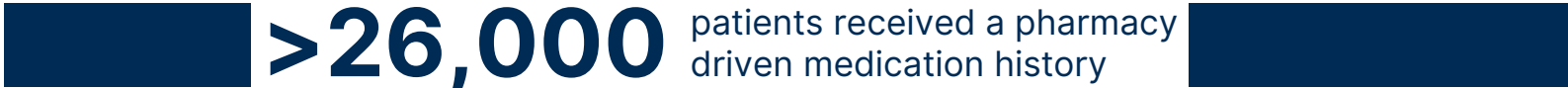
- 904 new patient visits, up 143% from 2024
- 7% no show rate
- 74% of visits completed via telehealth



- Clinical Service Areas
- Advanced Heart Failure and Pulmonary Arterial Hypertension
 - Endocrinology
 - Gastroenterology and Inflammatory Bowel Disease
 - General Cardiology
 - Internal Medicine and Anticoagulation
 - Medical Weight Management
 - Neuroimmunology
 - Rheumatology
 - Transitions of Care Clinic



Following the late 2024 approval of Dr First, a software tool that enhances visibility of pharmacy fill history within Epic, the team substantially increased patient coverage without the addition of new personnel. These gains resulted in record breaking medication history volumes and the highest percentage of adult inpatient admissions covered to date. Team efficiency and quality outcomes were further evaluated through a research project conducted by a HSPAL resident, which demonstrated improvements in medication history capture rates and completion within 24 hours following Dr First implementation. This work has been accepted for publication in the American Journal of Health-System Pharmacy.



In addition to workflow improvements, the team enhanced internal resources to support accuracy and consistency. These efforts included development of standardized dot phrases for complex medications such as warfarin and insulin pump therapies, implementation of a streamlined technician documentation note, and increased emphasis on comprehensive allergy documentation, among others. Leveraging these efficiency gains, the medication history team successfully expanded services to the newly opened Inpatient Rehabilitation Unit and the behavioral health facility, further extending pharmacy driven medication history coverage across the health system.

WVU Hospitals & Clinics

Medication Safety & Compliance

Drug Diversion

- Calvin Parmiter was promoted to manager and approved to establish a system-level drug diversion program for WVUHS.
- Control Check performance exceeded national benchmarks for unreconciled events and reconciliation timelines

Compliance

- Chalyon Harris implemented several new initiatives including controlled substance compounding audits and a quarterly education-and-audit series.
- Chalyon hosted a compliance focused escape room for pharmacy technicians during pharmacy week.



**Maria Cumpston,
PharmD, CPPS, CPHFH**

Director, Medication
Safety & Pharmacy
Compliance



**Calvin Parmiter
PharmD, MHA**

Pharmacy Manager,
WVUHS Drug Diversion
& Compliance

Medication Safety

WVUH Projects

- Led multiple medication safety and workflow initiatives, including unordered medication administration, hazardous medication priming, Exparel safety workgroup, blood factor syringe workflows, HIV PEP streamlining, hyperinsulinemia bolus-from-bag, and transdermal patch provider-hold removal.
- Optimized Epic builds and order sets, including diluent-based scannable medications, nebulized syringe preparations (epoprostenol, albuterol, levalbuterol), preeclampsia (Fairmont), pulmonary hypertension embryo-fetal toxicity advisory, and Dispense Prep reuse functionality in collaboration with Privacy, Release of Information, and Data Integrity/Transcription.
- Enhanced medication safety monitoring via new drug-drug interaction lookbacks beyond First Databank software.
- Provided medication safety education to General Surgery and Orthopedic residents to promote event reporting.

>99%

Large Volume Pump
Library Compliance

100%

PCA and Epidural Pump
Library Compliance

>97%

WVUH BCMA Compliance



WVUHS Standardization

- Standardized PCA and epidural concentrations through ASHP's Standardize for Safety initiative.
- Removed auto-verification for high-risk scenarios, including neuromuscular blockers, pediatric orders under age 7, and significant drug interactions.
- Updated Extravasation Management Guidelines based on emerging literature.

Team Recognition

- Maria Cumpston passed the exam and is a Certified Professional in Human Factors in Health Care (CPHFH)
- Jenni Shahan received a Bravo award in April for her work on innovative educational projects
- Christina Deusenberry completed the ASHP Medication Safety certificate program. Everyone on the medication safety team is now certified and are representing WVUHS as Medication Safety Officers.
- Calvin and Shannan completed ASHP's Drug Diversion Certificate program.

WVU Medicine Golisano Children's Hospital



**Micah Butcher,
PharmD, BCPPS**

Pharmacy Manager, Clinical
Pediatrics Pharmacy Services



**Courtney Sweet,
PharmD, BCPPS**

Director,
Pediatric Pharmacy Services



**Lisa Garavaglia,
PharmD, BCPPS**

Pharmacy Manager, Operations
Pediatrics Pharmacy Services

295,906

Medication Orders
Verified

2,612

Pediatric Infusion
Visits

110,047

Bottles Prepared in
Infant Nutrition

WVU Medicine Children's received a transformative \$28 million unrestricted gift from philanthropist Thomas Golisano, significantly strengthening pediatric care across the state and region. In recognition of this support, the hospital will be renamed **WVU Medicine Golisano Children's**. The gift will advance services, expand programs, and support new technologies and multidisciplinary care for children and families.

This milestone follows the hospital's recent recognition as West Virginia's top children's hospital by U.S. News & World Report and aligns WVU Medicine Golisano Children's with a national network of children's hospitals focused on shared innovation and quality improvement.



WVU Hospitals & Clinics

WVU Medicine Golisano Children's Hospital

Automation

- Dispense Prep Vial for Reconstitution – Functionality in EPIC's Dispense Prep which directs technicians to the correct diluent and volume when reconstituting a vial. When the vial and diluent are scanned in dispense prep a mismatch will flag
- Birthing Center and Pediatric Infusion Center Go-Live of Dispense Tracking – EPIC pharmacy management module which allows for real-time tracking of medication from the pharmacy to the patient care area allowing for real-time visibility and receipt confirmation.

Education

- Health Careers Academy – Hosted twenty junior and/or senior high school students to allow for firsthand experience in the inpatient pharmacy.
 - The students must apply to the academy demonstrating scholastic ability (GPA 3.0 and above), provide their high school transcript, and two letters of recommendation.
 - Provided an overview of pharmacist and pharmacy technician career opportunities.
 - Technician leads facilitated preparation of a dummy IV bag as a hands-on activity.
- Monongalia County Technical Education Center (MTEC) – Partnered with MTEC to allow three high school seniors to complete a paid internship over 8 weeks.
 - Hired one student who is now nationally certified and is a nightshift pharmacy technician specialist



Clinical Services and Transitions of Care

- Pediatric Emergency Department Order Sets – Developed system-wide pediatric emergency department order sets to standardize care and support safe, effective medication use.
- Tzield for Type 1 Diabetes Mellitus – Supported the first local administration of Tzield for the treatment of type 1 diabetes mellitus, enhancing care options for pediatric patients.
- Ambulatory Care Pharmacist Role – Received approval for a new ambulatory care pharmacist position to support growing outpatient and specialty clinic needs.
- Pediatric Transitions of Care Support – Amber Rudolph, Senior Clinical Pharmacy Technician, collaborated with Pharmacy Specialist Gretchen Horning and pediatric sub-specialty clinics to support transitions of care through coordination of specialty prescriptions, prior authorizations, and medication access. These efforts reduced delays in therapy, with plans to expand services in 2026 to Pediatric Hematology/Oncology.

Community Pharmacy Services



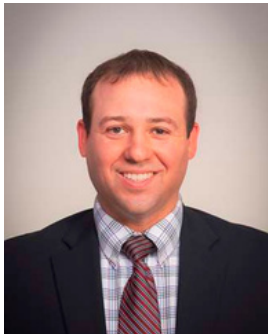
**Bryan Baker,
PharmD**

Pharmacy Manager,
Mountaineer
Pharmacy



**Matt Bailey,
PharmD**

Pharmacy Manager,
Suncrest Pharmacy



**Jared Lapkowicz,
PharmD**

Pharmacy Manager,
Community Pharmacy



**Renee Postlethwait,
BS Pharm**

Pharmacy Manager,
Medical Center
Pharmacy



**Logan Sanders,
PharmD**

Pharmacy Manager,
Fairmont Medical Center
Community Pharmacy



**Ashley Simmons,
PharmD**

Pharmacy Manager,
Discharge Pharmacy

2025 IN REVIEW

512,000

TOTAL PRESCRIPTIONS FILLED

120,964

PRESCRIPTIONS MAILED

>70,000

UNIQUE PATIENTS SERVICED

1,209

MEDICATION THERAPY
MANAGEMENT INTERVENTIONS

223

MOUNTAINEER ADHERENCE
PROGRAM PATIENTS

>65%

MEDS-TO-BEDS
CAPTURE RATE

Community Pharmacy Services



Discharge Pharmacy

130,000 Scripts

- Enhanced the Drug Repository Program, supporting medication access and reducing waste.
- Implemented MyChart scheduling for vaccinations to improve patient convenience and access.
- Served as a training site for APPE students, PhD candidates, college students, and participants in the Project Search Program.
- Delivered more than 140,000 prescriptions to the bedside and throughout the community.



Medical Center Pharmacy

277,000 Scripts



Mountaineer Pharmacy

105,000 Scripts

In 2026, Pharmacy Services will expand access to care with the opening of the Fairmont Medical Center Community Discharge Pharmacy and a new Community Pharmacy at Suncrest. These initiatives will enhance transitions of care, improve medication access, and better serve patients and families across our communities.

Specialty Pharmacy & Home Infusion



**Louie Sokos,
BS Pharm, MBA**

Assistant Vice President,
Specialty Pharmacy & Home
Infusion Services



**Samuel Yokum,
PharmD, MBA**

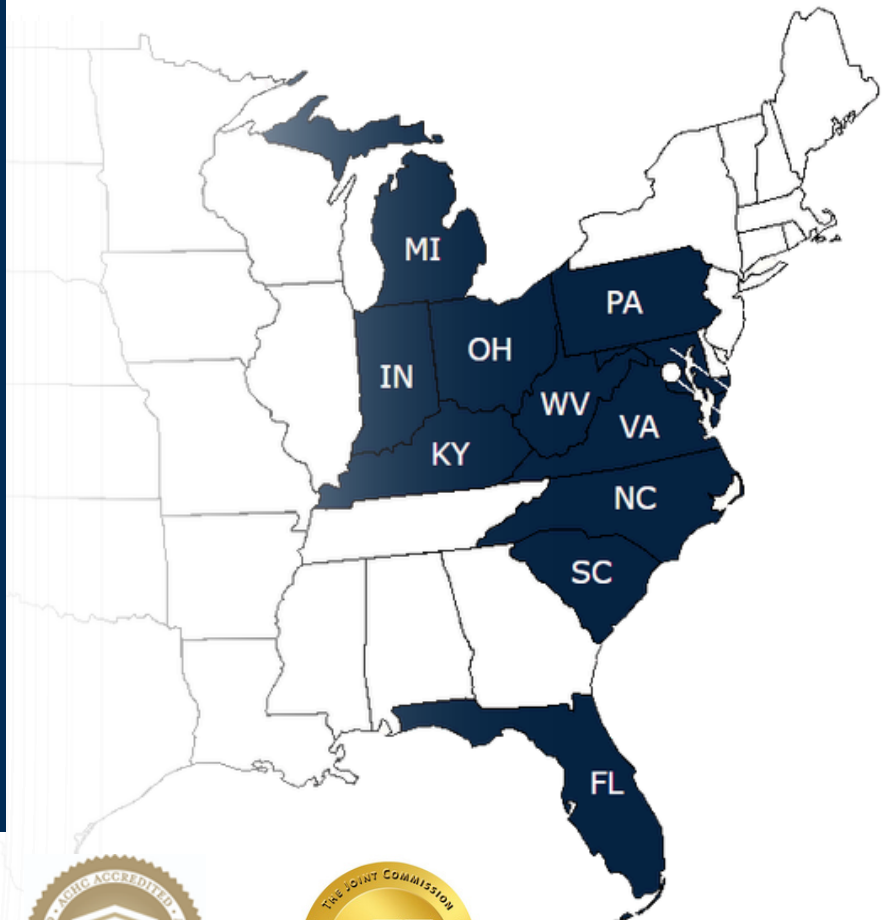
Director,
Specialty Pharmacy &
Home Infusion Services

The 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.

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

Licensed in 11 states!



WVU Medicine Specialty Pharmacy



**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

37,047 Clinical Activities Documented
4,994 Patient Therapy Onboarding
5,024 Initial Patient Assessments
11,386 Treatment Follow-up Reviews
3,708 Lab Activities
9,628 Clinical Interventions
15 Students Enrolled in Specialty Pharmacy
Elective Course

Operations

\$445 Million Specialty Pharmacy Revenue
86,803 Specialty Pharmacy Prescriptions

Prior Authorization and Patient Assistance Team

\$8.8 Million Total Patient Medication Savings
\$8.7 Million Co-pay Assistance Savings
\$116,241 Patient Assistance Funds & Grants
Savings
26,997 Prior Authorizations Completed
89.11% of all patients received a copay less
than \$20
12 Additional Prior Authorization Locations
Serviced

Call Metrics

57,668 Inbound Calls
9 Second Average Speed to Answer

In 2025, the Prior Authorization team adopted latent AI technology to streamline prior authorization processes and improve workflow performance. In 2026, we look forward to building on this progress to further optimize operations and support timely patient access to care.

Home Infusion, Delivery Services, and Business Operations

HOME INFUSION



Jalyn Robinson,
PharmD, CSP

Assistant Director,
Home Infusion



Ashray Chawla,
PharmD, BCPS

Manager, Operations &
Clinical Services

11,865 Prescriptions Completed

427 Total Home Infusion Patients

\$17.3 Million Home Infusion Revenue

SPECIALTY PHARMACY AND HOME INFUSION TEAM



BUSINESS OPERATIONS

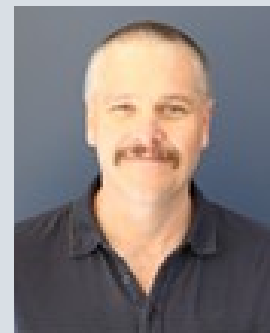


Mike Mezzapelle,
BS, CPhT

Pharmacy Manager,
Business Operations

10,661 Internal Audits

DELIVERY SERVICES



Michael Bishoff

Pharmacy Manager,
Delivery Services

464,163 Courier Miles Driven

38,134 Courier Deliveries

22,875 Third Party Shipments

Enterprise Pharmacy Solutions

Vision: To create a Pharmacy Consolidated Service Center that is committed to enhanced inventory management of pharmaceuticals while providing additional services and cost savings to West Virginia United Health System member institutions.



Dave Cecere, PharmD, MBA, FACHE
Director,
Enterprise Pharmacy Solutions



Brian Jones, CPhT
Pharmacy Manager,
Enterprise Central Services Warehouse



Staci Czyzewski, BS, CRCR
Senior Pharmacy Manager,
Enterprise Pharmacy Solutions



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, analysis and projections, and helping indigent patients receive free medications through patient assistance programs.

The Warehouse team offers repackaging services and providing drug shortage mitigation as well as servicing the Enterprise provider based clinics.

CENTRALIZED PHARMACY WAREHOUSE

- Improved drug shortage management and mitigation by maintaining a 3-month supply of 50 items with a history of market shortages
- Standardized Repackaging Center with over 400k tabs/caps supplied to sites
- Reduced expired medications with the ability to supply in low units of measure
- Retail support and savings through enhanced wholesale programs
- Infusion Support and Savings through CSTD program
- Onboarded and currently supplying 200 system clinics
- Clinical Standardization and support

**\$60 Million
Annualized
Savings**

Enterprise Pharmacy Solutions

FINANCE

- Led Biosimilar Task Force by conducting analysis and projections to provide preferred agent recommendations based on financial and operational needs
- Led Task Force to help control inappropriate use of 505(b)(2) generics
- Provided net margin and payor coverage information for Formulary Reviews
- Ensured accuracy of billing through proactive practices including maintenance of new HCPCs, audit of NTAP list, and updates of drug costs and pricing
- Ensured real time accuracy of billing through monitoring of high dollar and high volume work queues
- Helped enhance waste billing accuracy through Dispense Prep and a maintenance plan for grouper lists
- Assisted with implementation of the Service Now Ticketing System
- Assisted with standardization, auditing, and maintenance of pharmacy cost centers across the system

CONTRACTING

- Implementation of standardized price checks and audits for improved standardization of wholesaler pricing across the Enterprise
- Expansion of contracting services across the Enterprise to include all CAH/RRC facilities
- Development of Contracting Onboarding protocol for newly acquired hospitals
- Support Enterprise buy-ins to include opportunities for Retail and Specialty Pharmacies



INFORMATICS

- Coordinated and assisted with Omnicell Implementations and maintenance across system
- Coordinated and implemented LSPedia (DSCSA Software) across system
- Assisted with Warehouse Management Software implementation and maintenance
- Created database solutions for Patient Access Team to manage free drug opportunities
- Created functionality to assist with Pharmacy Inventory across the system
- Coordinated standardization and contracts of pharmacy subscriptions

PATIENT ASSISTANCE

- Over 300 patients provided free medication
- Over 2,000 medication doses provided to patients
- Over \$11 million in medication obtained for patients free of cost to them and the organization
- Free Medication program for facility administered medications fully expanded system-wide
- Medical Benefit Authorizations expanded to 3 facilities

BUSINESS DEVELOPMENT

- Coordinated & assisted with all warehouse service area implementations throughout the year
- Designed & managed buildout of 5,940 sq ft additional pharmacy space
- Assisted with initial design planning of new specialty pharmacy space

Enterprise 340B Management Program

The Enterprise 340B Program Management Team serves as a trusted system-wide resource, ensuring the integrity and optimization of WVU Medicine's highly complex 340B Drug Pricing Program. Managing this program requires navigating intricate federal regulations, HRSA and OPA compliance standards, and dynamic operational workflows across multiple hospitals and service lines. Our mission is to uphold full compliance through rigorous auditing, proactive oversight, and strategic collaboration. By safeguarding program integrity and identifying opportunities for growth and efficiency, we deliver long-term value that supports organizational goals of WVU Medicine and the communities we serve.



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

19

Covered Entities

273

Child Sites

13

*Hospital Owned Retail &
Specialty Pharmacies*

58,363

Total Claims Audited

1

HRSA Audit

31

340B Team FTEs

588

Contract Pharmacies

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.

Enterprise 340B Management Program

Program Compliance

- Managed all aspects of one HRSA audit. Prepared for 2 upcoming HRSA Audits in Q1 2026 and closed 3 HRSA audits from 2024 with HRSA accepted Corrective Action Plans
- Completed RFP selection, and implementation of two new external auditors; including one for 340B Audits and another new 340B Consultant team
- Independent External Audits for 588 Contract Pharmacy relationships and Full External Compliance Audits of 6 Covered Entities
- Audits Performed on all 340B Medicare & Medicaid hospital claims
- Hemophilia Treatment Center to 340B Program Oversight
- Implementation of new DSCSA regulations for retail/contract pharmacies
- Wholesaler GLN compliance project with Enterprise Pharmacy Solutions for new FDA DSCSA scanning procedures

Program Optimization

- Management of shifting manufacturer limitations and state bills
- Epic Default Project to review outdated NDCs
- Price checks and access across 922 - (PHS) -340B accounts
- NCPDP claims file for specialty home infusion
- Provider based clinic expansion analysis
- Finance Collaboration with Medicaid days and DSH% Tracking
- Hired a dedicated Contract Specialist
- Renegotiated 2 Apexus Cardinal LOPs with our Primary & Secondary wholesalers
- Settings overhaul in Verity to identify missed opportunities for savings & inappropriate charges due to incorrect settings
- Contract Pharmacy profitability review resulting in termination of 17 contract pharmacies

Program Expansion

- Registered 62 new child site clinics and 117 new Contract Pharmacies
- Nuclear medicine 340B program expansion
- Expanded the team by adding 5 new FTEs
- Created new process for identifying & analyzing contract pharmacy profitability & covered entity relationships from Q2-Q4
- Collaborated with Peak Health to contract with Peak Preferred pharmacies to maximize program for employees & community

Other Projects

- Preparation for 340B MFP and Rebate Pilot
- Education
- Creation of data files
- Beacon Registration
- Managed hospital conversion from DSH to SCH
- Hospital Conversion to McKesson (Thomas)
- 340B Advocacy
- Prepared contract pharmacy budget for each hospital
- Updated all WVUHS System 340B Policies & Procedures for all 19 CEs



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.

Specific Initiatives

- Coordinated 25+ Medication Use Evaluations across residency programs and the WVU School of Pharmacy, with outcomes presented at Vizion Pharmacy Network Meeting/ASHP Midyear.
- Implemented EHR-based clinical decision support tools to promote safe, effective care, including anticholinergic burden, insulin infusion safety, pediatric and obstetric emergency order sets, and pharmacogenomic recommendations.
- Integrated 9 additional system hospitals into the systemwide Smart Pump Drug Library and deployed large-volume pump interoperability at 6 hospitals.
- Developed EHR-integrated strategies to support safe medication use through REMS programs and Boxed Warning alerts.
- Developed an ethical AI guideline and evaluation framework for AI use in medication management, ensuring alignment with organizational priorities, ethics, and regulatory compliance.
- Organized systemwide collaborative workgroups to engage staff in Opioid Stewardship, Oncology Stewardship, and Clinical Pharmacy Services.
- Partnered with all five WVU Medicine Institutes to advance multidisciplinary collaboration and clinical integration.
- Expanded the comprehensive online formulary management tool with integrated resources for safe and effective prescribing.
- Published the "Med Use Minute" virtual newsletter featuring formulary, EHR, stewardship, REMS, IV pump, and continuing education updates.
- Coordinated 26+ hours of live continuing education for pharmacists and pharmacy technicians.
- Integrated medication therapies into clinical care pathways to improve outcomes in:
 - Local Anesthetic Toxicity
 - Intranasal Emergency Medication Administration
 - Hyperinsulinemia Euglycemia
 - Opioid Stewardship
 - Pulmonary Biologic Therapies
 - Cytokine Release Syndrome/ Immune Effector Cell-Associated Neurotoxicity Syndrome
 - Wet Age-Related Macular Degeneration
 - Heart Failure



**Derek Grimm,
PharmD, BCPS**

Enterprise Director of
Pharmacy, Medication Use

2.96 million

*Smart Pump Medication Drug
Library entries programmed*

99%

*Compliance with the Smart
Pump Medication Drug Library*

44

*EHR Order Sets Developed or
Updated*

86

*Clinical Practice Guidelines or
Best Practice Documents
Developed or Reviewed*

256

*Interventions on High-Cost
Medications*

100+

*Medications Reviewed for
Formulary Consideration*

750+

Order Sets Reviewed

Publications

Sibbesen J et al. Vizient Focus Group: 505(b)(2) Approved Medications. White Paper. Vizient. Feb 2025.

Pyles D, Friery E, Ponce A, Quedado J, Zarfoss Ponce E. Comparison of Door to Needle Times for Three Fibrinolytic Strategies in Acute Ischemic Stroke. Hospital Pharmacy. 2025;0(0). doi:10.1177/00185787251388347

Pyles D, Kovacic Scherrer N, Zarfoss Ponce E, Shigle AJ. Evaluation of sodium zirconium cyclosilicate usage for hyperkalemia secondary to sulfamethoxazole/trimethoprim therapy. J Antimicrob Chemother. 2025 Dec 2;80(12):3381-3385. doi: 10.1093/jac/dkaf380. PMID: 41091893.

Mackie EL, **Shigle AJ, Burwell SL, Kinney AG.** Initial Analgesia and Sedation Requirements in Intensive Care Unit Patients on Prior-to-Admission Buprenorphine/Naloxone. Ann Pharmacother. 2025 Dec 1;10600280251392136. doi: 10.1177/10600280251392136. Epub ahead of print. PMID: 41324389.

Terpening CM, **Wietholter JP.** Dihydroergotamine Intranasal Powder for Acute Migraine Treatment. Ann Pharmacother 2025 Dec; Published online:. DOI: 10.1177/10600280251388440.

Ball NS, Kinney EM, McMahan E, **Wietholter JP.** Assessing inpatient formulary-driven inhaler use in presumed Group B chronic obstructive pulmonary disease. J Am Pharm Assoc 2025;65:102916. doi: https://doi.org/10.1016/j.japh.2025.102916

Wietholter JP, Whetsel TR. Chapter 16: Chronic Obstructive Pulmonary Disease. In: Pharmacotherapy Principles & Practice. 7th ed. New York: McGraw-Hill, 2025: 329-340.

Akbar UA, Alruwaili W, **Lacoste JL,** Thyagaturu H, Thangjui S, Taha A, Balla S. Comparative effectiveness of prasugrel versus ticagrelor in dialysis-dependent end-stage renal disease patients undergoing percutaneous coronary intervention. The American Journal of Cardiology. 2025;258:190-193. doi:10.1016/j.amjcard.2025.09.033

Thyagaturu H, Seetharam K, Roma N, Patel N, **Lacoste J,** Padala V, Gonuguntla K, Munir MB, Balla S. Prescription Medication Use and Expenditure for Atrial Fibrillation in the United States. Value in Health. 2025;28(2):197-205. doi:10.1016/j.jval.2024.11.012

Sibbesen JB, Rich JR. Understanding the FDA Approval Process and PDUFA Dates. Pharmacy Times. March 2025.

Ball NS, Bredhold B, Ward A, Demkowicz R, **Martello JL.** Assessing 30-day recurrence for patients testing indeterminate for *Clostridioides difficile* based on treatment status. Anaerobe. 2025;96:103012. doi:10.1016/j.anaerobe.2025.103012

Lexner E, Kennedy L, **Seago K.** Revaccination and Titer Assessment after CAR T-cell Therapy: Current Recommendations and an Assessment of Implementation Barriers Faced by Institutions. ASTCT Winter Newsletter. 2025;13(2):5-10.

Smith LM, Casey FL, Chauhan D, Mascio CE, Mathewson M, Uddassi J. Evaluation of a bivalirudin dosing and monitoring protocol in pediatric extracorporeal membrane oxygenation. J Pediatr Pharmacol Ther. 2025;30(2):218-225. DOI: 10.5863/1551-6776-30.2.218

Zuckerman AD, Thomas KC, Diamantides E, Takhar S, Shah R, **Conant K,** Platt T, Rhudy C. Capturing Value: How Health-System Pharmacies Define and Document Pharmacist Interventions. Pharmacy. 2025;13(6):172. DOI: 10.3390/pharmacy13060172.

Publications

Szymanski TW, Rockhold MR, Lacoste JL. Temporal Effect of CYP3A4/5 Induction on Ticagrelor's Pharmacodynamic Effects: A Case Series. *J Pharm Pract.* 2025;38(1):204-207. doi:10.1177/08971900241273095

Murchison A, Ball N, Rockhold M, Bredhold B. Treatment failure in patients with obesity with venous thromboembolism receiving truncated vs. recommended lead-in times with apixaban at an academic medical center. *J Thromb Thrombolysis.* Published online September 15, 2025. doi:10.1007/s11239-025-03181-4

Yzaguirre S, Rockhold M, Szymanski T, Kunkel L, Vaughan M, Berzingi S, Lacoste J. Evaluation of the Use of Primary Prevention Aspirin in Patients with Atrial Fibrillation Receiving a Direct Oral Anticoagulant for Stroke Prevention. *Ann Pharmacother.* doi:10.1177/10600280251401892

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

Gallagher CM, Yingling SK, **Cumpston A**, Veltri L, Safi S, Wen S, **Seago K.** Evaluation of titer-proven response rates of pediatric hepatitis B-combination vaccines in adult hematopoietic cell transplant recipients. *Transplant Infectious Disease* 2025;3:e70005.

Seago K, Gallagher CM, Yingling SK, **Cumpston A.** Financial impact and utilization of a pharmacist-driven blinatumomab home infusion pathway for patients requiring short-term inpatient monitoring after outpatient blinatumomab initiation. *Journal of Hematology Oncology Pharmacy* 2025;15(3):121-126.

Kiss ZA, Allison AN, **Knopp ME.** Evaluation of Patient-Driven Constipation Action Plans for Patients Discharged From a Pediatric Hospitalist Service. *J Pediatr Pharmacol Ther* 2025;00(0). DOI: 10.5863/155167760001

Kido K, Colvin B, Schauble R, Bianco C, Caccamo M, Felpel K, Sokos G. Evaluation of a Pharmacist-Led Intravenous Iron Therapy Transitions of Care Service in Heart Failure. *Ann Pharmacother.* 2025 Nov 14:10600280251389141.

Vest TA, **O'Neil DP**, Gazda NP, Eckel SF, K Donnowitz. Practice-enhancing publications about the medication-use process in 2024. *American Journal of Health-System Pharmacy.* American Journal of Health-System Pharmacy. 21 July 2025.

Gajda EC, O'Neil DP, Garavaglia L, Carter J, Janicki S, Ruben J, Sybert C. Collaboration between a secondary education pharmacy technician training program and academic medical center. *American Journal of Health-System Pharmacy.* 12 June 2025.

Almodovar AS, Blankenship B, **Miller J**, Trombetta M, Murphy EM. Return on investment of pharmacists' services among non hospitalized patients: A scoping review. *Research in Social and Administrative Pharmacy.* Published online January 31, 2025. doi:https://doi.org/10.1016/j.sapharm.2025.01.012

Sibbesen J et al. Responsible Use of Artificial Intelligence in Health Care: Evidence, Challenges, and Best Practices: An Opinion of the Drug Information Practice and Research Network of the American College of Clinical Pharmacy. *Journal of the American College of Clinical Pharmacy.* 2025 Oct; 0:1-29.

Wong, D, Dharia M, Khorashadi S, Risher T, Verschraegen C, Barrett C, **Sypult, C, Bissett R.** (2025). Odomzo® – PQI in Action: Sonidegib (Odomzo®) patient management. National Community Oncology Dispensing Association (NCODA).

Presentations

Murphy, K. 2025 Rheumatology Advanced Practice Providers (RhAPP) Patient Case Presentation. Presented at the RhAPP Conference, Aurora, Colorado, September 26, 2025.

Sibbesen J et al. Best Practices for Responsible Use of Artificial Intelligence in Health Communications by Drug Information Practice and Research Network of the American College of Clinical Pharmacy. Presented at the Annual American College of Clinical Pharmacy Meeting. Minneapolis, MN. Oct 2025.

Karpinski T, Hickey M, Smith C, **Grimm D.** Impact of Emerging Drug Therapies on Payer-Provider Networks. Virtual panel presentation. September 4, 2025. 1.5 ACPE Virtual Interactive Education Credits.

Jensen C, Johns M, Patel N, Proctor C, **Grimm D,** Konkol J, Pennock D, Feller T. Living Medicines, Real-World Logistics: A Panel Discussion on HS Pharmacy Infrastructure to Support Cell & Gene Therapies. Virtual panel presentation. October 30, 2025. 1 live CPEL recertification point.

Cook K, Johnson S, **Grimm D.** Hospital Price Transparency – Payer/Provider Perspectives and The Various Shades Of Gray. Platform presentation at AMCP Nexus. October 2025.

Mehta, M. HIV Pharmacy Considerations. 21st Annual HIV in West Virginia Conference in Glade Springs

Shi L, Closing the Loop: Optimizing Patient Assistance Communication Through the Electronic Health Record. ASHP Midyear. December 2025

Shi L. From Critic to Coach: Strategies to Reframe Difficult Feedback and Conversations. ASHP Midyear. December 2025

Shigle AJ. SCCM CPP Virtual International Critical Care Pharmacist Exchange. Virtual. August 2025.

Grammer R, **Shigle AJ,** Jagadeesan V, Sharma S. Clots to Crisis: Utilization of PERT and Beyond. CCTI Lunch and Learn. March 2025.

Bredhold B, Shigle AJ, Edwards S. Understanding 16 Personalities. Preceptor Development. April 2025.

Kocher, B. Ambulatory Care Clinical Pearls 2025, ASHP Midyear Clinical Meeting, Las Vegas, NV, December 2025.

Hammonds W, Honeycutt C. Bridging Gaps in Care: The Growing Role of Clinical Pharmacy Technicians. ASHP Midyear Clinical Meeting. December 2025.

Vest TA, Gazda NP, **O'Neil DP,** K Donnowitz, Eckel SF. Practice-enhancing publications about the medication-use process in 2023. American Society of Health-System Pharmacists Midyear Clinical Meeting 2025. Las Vegas, Nevada. December 2025.

Kendall M, Rose S. From Hood and Beyond. WVUH Live & Virtual Continuing Education. November 2025

Lusk, K. Diversion Prevention. WVUH Charge Nurses. Morgantown, WV. December 2025.

Cumpston, A. GVHD and Infectious Complications – Invited Speaker; ASTCT Core Topics Live Session, November 2025.

Cumpston, A. HCT Complications and Infectious Diseases in HCT - Invited Speaker; ASTCT Pharmacy HCT Core Topics Connection Live Session, January 2025.

Wietholter JP. Selected Topics in Neurologic Disorders: ASHP's Pharmacotherapy Specialty Core Therapeutic Module Package for Recertification. Virtual. November 2025.

Edwards S, Whiteman M, Curry H, Schmidt M. PhORCAS-ting a Bright Future. Virtual. August 2025.

Sypult C, Bissett, CPhT. Bridging Clinical Gaps Through Integrated Health System Specialty Pharmacy Services. Presented at WVU Annual Fall Cancer Conference. October 17, 2025.

Hill, J. Ahead of the Curve: Proactive Hyperglycemia Management for PI3K and AKT Inhibitors in HR+ Breast Cancer Pharmacy Times Clinical Forum December 2025

Hill, J. Sugar, We're Going Down: Navigating Glycemic Control in the Era of PI3K/AKT Inhibition for Breast Cancer
Pharmacy Times Continuing Education: Directions in Oncology Practice Sep - Nov 2025

Hill, J. Optimizing HER2-Directed Therapy in Metastatic Breast Cancer: From HER2-Positive to HER2-Ultralow
Pharmacy Times Continuing Education: Breast Cancer Day of Education July 2025

Hill, J. Role of the Multidisciplinary Team in Achieving Comprehensive and Individualized Care of Patients with HR-positive/HER2-negative Metastatic Breast Cancer and Preexisting Comorbidities. Clinical Care Options Live Webinar
May 2025

Martin D, Aboraya A. From President to President: Lessons in Leadership. Presented at the Fall 2025 Kappa Psi
Pharmaceutical Fraternity Mountain East Province Assembly. Morgantown, WV, November 15 2025.

Martin D, Hinchee B. High Alert, High Risk: Heparin Safety Starts With Us. Pharmacy Technician CE Presented (Virtually
& In-Person) at WVUH. Morgantown, WV, December 30 2025.

Denise Sokos, Sarah Embrey. Sweet "Bytes": Utilizing Technology to Optimize Blood Glucose at WVU Medicine.
Premier Pharmacy Executive Conference, Live, virtual. November 2025.

Carney F, Liptak C, Mazin L, **Walker D**, Wood T. Ghost Generics: 505(b)(2) Approved Medications. Vizient Pharmacy
Network live webinar. February 2025

Beaudrie-Nunn A, Man B, **Walker D**, Wood C. Life After Residency Part I. ASHP Live Virtual Panel. February 2025.

Molnar S, Parmiter C. Play Ball: Hitting a Home Run on Systemized Controlled Substance Diversion Practices. Presented
at the 2025 ASHP Midyear Meeting, Las Vegas, Nevada, December 2025.

Long SL, Santibañez M. Direct Oral Anticoagulant Initiation Post-Cardioembolic Stroke over Zoom via ACCP AMED PRN.
Virtual. June 25, 2025.

Long SL, Ponce AT, Shigle AJ. Antimicrobial Stewardship in the Emergency Department over Zoom via ACCP EMED
PRN. Virtual. April 24, 2025.

Hammonds W, Harvey M. Rolling the Dice? Not Here: How a Clinical Pharmacist Stacks the Odds for Success in Weight
Management. Presented at Midyear Clinical Meeting in Las Vegas, Nevada. December 10, 2025.

Mitchell R. CSP Exam Prep Course: Hepatitis. Presented at National Association of Specialty Pharmacy Annual Meeting.
September 14, 2025.

Blevins A. The Specialty Pharmacy Shuffle: Dealing the Right Staffing Models for Success. American Society of Health-
System Pharmacists Midyear Clinical Meeting 2025. Las Vegas, Nevada. December 2025.

Petitte M. From Data to Display: Crafting Winning Posters in Specialty Pharmacy. American Society of Health-System
Pharmacists Midyear Clinical Meeting 2025. Las Vegas, Nevada. December 2025.

Petitte M. Specialty Pharmacy: Advancing Care and Demonstrating Impact for Patients With Inflammatory Bowel
Disease. American Society of Health-System Pharmacists Midyear Clinical Meeting 2025. Las Vegas, Nevada.
December 2025.

Poster Presentations

Carstens K, Seago K, Vargo L, Deel J, Moyer C, Cumpston A. Assessment of inpatient DRG assigned to patients admitted within 3 days after outpatient administration of CAR-T therapy. Poster presentation at Vizient University Health System Consortium Pharmacy Network Meeting, Las Vegas, Nevada, December 2025.

Holler S, Cumpston A, et al. Phase II run-in study of daratumumab in combination with radiation therapy and temozolomide in newly diagnosed glioblastoma. Poster presentation at the Society of Neuro-Oncology and World Federation of Neuro-Oncology Societies Annual Meeting, Honolulu, HI, November 2025.

Kielkowski BN, Seago K, Ebbert B, Vargo L, Veltri L, Safi S, Wen S, **Cumpston A.** Evaluation of the clinical and financial impact of dexamethasone prophylaxis with outpatient administration of CAR T-cell therapy. Poster presentation at HOPA Annual Conference, Portland, OR, April 2025.

Deel J, Vargo L, Ebbert B, Cumpston A, Seago K. Comparison of weekly versus twice weekly carfilzomib in combination with immunomodulatory drugs. Poster presentation at HOPA Annual Conference, Portland, OR, April 2025.

Lexner E, Seago K, Vargo L, Ebbert B, Wen S, Veltri L, **Cumpston A.** Clinical and financial comparison of outpatient BEAM and inpatient CBV conditioning regimens for autologous hematopoietic stem cell transplant. Poster presentation at HOPA Annual Conference, Portland, OR, April 2025.

Fuqua JL, **Cumpston A, Seago K,** Watkins K, Ross K, Safi S, Shultz CT, Sdrimas K, Veltri L. Hematopoietic progenitor cell mobilization with a disease specific "just-in-time" plerixafor approach. Poster presentation (#26104) at Tandem Meetings of ASTCT & CIBMTR 2025, Honolulu, HI, February 2025.

Kielkowski BN, Seago K, Vargo L, Ebbert B, Veltri L, Safi S, **Cumpston A.** Evaluation of the clinical and financial impact of dexamethasone prophylaxis with outpatient administration of CAR T-cell therapy. Poster presentation (#25657) at Tandem Meetings of ASTCT & CIBMTR 2025, Honolulu, HI, February 2025.

Casmir M, Hammonds W, Braham M, Sokos D, Burwell S. Long-acting injectable antipsychotic use at a behavioral health facility. Poster session presented at the American Society of Health-System Pharmacists Midyear Clinical Meeting. Las Vegas, Nevada. 2025 December 9.

Stilgenbauer S, Ponce A, Braham M, Edwards S. Evaluating levetiracetam dosing strategies in the emergency department at a large academic medical center. Poster session presented at the American Society of Health-System Pharmacists Midyear Clinical Meeting. Las Vegas, Nevada. 2025 December 9.

Martin T, Braham M, Sibbesen J, Miller J, Hammonds W, Egbert A. Evaluation of romosozumab-aqqg at an academic medical center. Poster session presented at the American Society of Health-System Pharmacists Midyear Clinical Meeting. Las Vegas, Nevada. 2025 December 9.

Hinchee B, Braham M, Trickett H. Utilization review of glucagon for hypoglycemia management in an academic health system. Poster session presented at the American Society of Health-System Pharmacists Midyear Clinical Meeting. Las Vegas, Nevada. 2025 December 9.

Fantozzi T, Molnar S, Parmiter C. Proactive diversion risk and medication safety rounds at an academic medical center. Presented at the 2025 ASHP Midyear Meeting, Las Vegas, Nevada, December 2025.

Nash H, Friery E, Kinney A. Thromboembolism Prophylaxis Regimens in Trauma Patients. Presented at the 2025 Vizient Pharmacy Network Meeting, Las Vegas, Nevada, December 6, 2025.

Webb J, **Howard C.** Evaluation of Cefiderocol Use in a Multi-Center Academic Health System. Presented at the 2025 ASHP Midyear Clinical Meeting, Las Vegas, Nevada, December 2025.

Dombrosky J, **Howard C, Spigelmyer A.** Evaluation of Daptomycin Minimum Inhibitory Concentration Distribution and dosing Strategies for Vancomycin-Resistant Enterococcus. Presented at the 2025 ASHP Midyear Clinical Meeting, Las Vegas, Nevada, December 2025.

Poster Presentations

Wietholter JP, O'Kane CP, Loutzenhiser B, et al. Nationwide Observational Evaluation of Oral Antihypertensive Addition in Patients Hospitalized with Acute Kidney Injury. 2025 ACCP Annual Meeting on Clinical Pharmacy, Poster #Mon-4. Minneapolis, MN: October 20, 2025. Meeting abstract to be published in J Am Coll Clin Pharm.

Badua PM, Colvin BM, Kabulski GM, Lacoste JL. Effectiveness of Antiarrhythmic Drugs for the Prevention of Automated Implantable Cardiac Defibrillator Therapies. Presented at the 2025 American College of Cardiology Conference, Chicago, Illinois, March 30th, 2025.

South T, Johnson E, Kabulski G. Evaluation of MB and B12 Utilization for Post-Cardiotomy Shock. Presented at the 2025 Vizient Pharmacy Network Meeting, Las Vegas, Nevada, December 6, 2025.

La Pointe L, Sweet C, Garavaglia L. Evaluation of Sugammadex Use in Pediatric Surgical Patients. Presented at the 2025 Vizient Pharmacy Network Meeting, Las Vegas, Nevada, December 6, 2025.

Schlick M, Monastra J, Sibbesen J, Walker D, Grimm D, Rich J. Assessment of Risk Evaluation and Mitigation Strategy Compliance within an Academic Health System. Presented at the 2025 Vizient Pharmacy Network Meeting, Las Vegas, Nevada, December 5, 2025.

Somero M, Garavaglia J, Kinney A. Dosing of Antithrombotics After Blunt Cerebrovascular Injury. Presented at Vizient Pharmacy Network Meeting. Las Vegas, Nevada. December 6, 2025.

McMillen J, Knopp M, Whiteman M. Evaluation of Pseudomonas eradication regimens in pediatric patients with cystic fibrosis. Presented at the 2025 Vizient Pharmacy Network Meeting, Las Vegas, Nevada, December 6, 2025.

Metzmeier S, Allison A, Teets P. Evaluation of Quetiapine Use in the PICU and CICU. ASHP Midyear Meeting: Pediatric Roundtables and Poster Session and Vizient Pharmacy Network Meeting. Las Vegas Nevada, December 6, 2025.

Gutkowski M, Lawson B, Grimm D, Sweet C, Gutta B. Beyond the Block: Assessing Bupivacaine Liposomal Injectable Suspension (BLIS) at WVU Medicine. Presented at the 2025 Vizient Pharmacy Network Meeting, Las Vegas, Nevada, December 6, 2025.

Hartzell AM, Manson S, Petite M, Pope D. Evaluation of prescribing patterns of adalimumab and ustekinumab reference products and biosimilars in inflammatory bowel disease patients serviced by a health system specialty pharmacy. Presented at the 2025 Vizient Pharmacy Network Meeting, Las Vegas, Nevada, December 6, 2025.

Nielsen GI, Mehta MJ, Spigelmyer AE. Evaluation of Stenotrophomonas Infection Treatment Across a Large Health System. Presented at the 2025 Vizient Pharmacy Network Meeting, Las Vegas, Nevada, December 6, 2025.

Lee CJ, Ng K, **Seago K**, et al. The REAL-HCT Study: Real-World Assessment of Patient Adherence to the Late Effects Screening Recommendations Among Hematopoietic Cell Transplantation Survivors. Poster presentation. Session name: Late Effects, Quality of Life, and Accelerated Aging. Poster ID 509. 2025 Tandem Meetings | Transplantation & Cellular Therapy Meetings of ASTCT and CIBMTR, Honolulu, HI.

Gunzenhauser S. Evaluation of Acetaminophen for PDA Closure in the Neonatal ICU. PPA Annual Meeting. April 2025.

Sibbesen J, Rich J. Data Validation and Implementation of Pharmacogenomic Our Practice Advisories (OPAs) and Testing WV Healthcare Safety Quality and Experience Improvement Research Day. Morgantown, WV, Feb 2025.

Knopp M, Jule R, Ahmed H, Chapman K. Reducing Proton Pump Inhibitor Use in Adult Cystic Fibrosis Patients at WVU Medicine. Presented at the North American Cystic Fibrosis Conference, Seattle, Washington, October 23, 2025.

Knopp M, Jule R, Bonner S, Young M, Arevalo C, Moffett K, Ahmed H, Chapman K, Smyth A. Bridging Gaps in Access: Prior Authorization Challenges in CFTR Modulator Therapies. Presented at the North American Cystic Fibrosis Conference, Seattle, Washington, October 23, 2025.

Poster Presentations

Aulakh S, Holler S, Cumpston A et al. Early phase study of daratumumab in combination with radiation therapy and temozolomide in newly diagnosed glioblastoma. Presented at the 2025 WFNOS/SNO Annual Meeting, Honolulu, Hawaii, November 21, 2025.

Hill J, Kielkowski B, Nolfi S, Marino C, Thomas L. Real-World Evaluation of Hepatotoxicity During Treatment with Ribociclib. Presented at San Antonio Breast Cancer Symposium, San Antonio, TX, December 10, 2025

Hill J, Hartzell M, Monroe G, Jiang B. Barriers to Enrollment in NRG-BR009: Low Eligibility and Treatment Preference as Key Challenges in a Rural Appalachian Trial of Premenopausal Women with Intermediate Oncotype Scores. Presented at San Antonio Breast Cancer Symposium, San Antonio, TX, December 11, 2025

Miller J, Clutter C, Hammonds W, Gannon K. Clinical impact of a pharmacist collaborative practice agreement on Centers for Medicare & Medicaid Services (CMS) quality measures for diabetes. Presented at American Pharmacists Association Annual Meeting, March 2025

Carter M, Sanders L. Enhancing Transitions of Care: Analysis of a Discharge Medication Cost Inquiry at an Academic Medical Center Outpatient Pharmacy. Presented at ASHP Midyear, Las Vegas, Nevada, December 9, 2025.

Sibbesen J, Trickett H, Yzaguirre S. Incorporating Artificial Intelligence into Medication Management and Formulary Optimization. Presented at the Annual American College of Clinical Pharmacy Meeting. Minneapolis, Minnesota. Oct 2025.

Somero M, Garavaglia J, Kinney A. Dosing of Antithrombotics After Blunt Cerebrovascular Injury. Presented at Vizient Pharmacy Network Meeting. Las Vegas, Nevada. December 6, 2025.

Ray K, Lacoste J, Schauble R, Trickett H. Assessment of Compliance with Laboratory Monitoring in Patients Receiving Amiodarone Therapy at an Academic Medical Center. Presented at the 2025 ASHP Midyear Clinical Meeting.

Sanders L, Trickett, H. An Evaluation of Statin Therapy Guideline Adherence in a Health System Compared to a National Electronic Health Record Data Set. Presented at the 2025 ASHP Midyear Clinical Meeting.

Wills J, Pritt K, Sokos D. Evaluation of PCC Use Beyond Recognized Standards of Care in a Multi-Center Healthcare System. Presented at 2025 Vizient Pharmacy Network Meeting, Las Vegas, NV, December 2025.

Long SL, Digman CS, Kinney EM. Amoxicillin vs amoxicillin-clavulanic acid for ampicillin-sensitive *Enterococcus faecalis* urinary tract infections. Presented at 2025 American Society of Health-System Pharmacists Midyear Clinical Meeting, Las Vegas, Nevada, December 9, 2025.

Harvey M, Price J. Evaluation of reason for utilization of embedded clinical pharmacist in a medical weight management clinic at one academic health-system outpatient clinic. Presented at Midyear Clinical Meeting in Las Vegas, Nevada. December 9, 2025.

Hummer A, Egbert A, Trickett H, Embrey A. Evaluation of Discharge Opioid Prescribing Patterns Following Oral Surgeries. Vizient Summit. Las Vegas, NV.

Zhang J, Hardy M, Mehta M. Evaluation of *Citrobacter braakii* susceptibility profiles and treatment. Presented at the 2025 Vizient Pharmacy Network Meeting, Las Vegas, Nevada, December 6, 2025.

Haney EH, Barrett C, Murto KL, Turner R. Utilization of EGFRi Rash Prophylaxis in Patients Receiving Cetuximab or Panitumumab. Presented at 2025 Vizient Pharmacy Network Meeting, Las Vegas, Nevada, December 6, 2025.

Cooney E, Ponce A, Edwards S, Ward D. Characterization of single-use intravenous antibiotics prior to emergency department discharge. Presented at the 2025 Vizient Pharmacy Network Meeting, Las Vegas, Nevada, December 6, 2025.

Blevins A, Petite M. Evaluation of pharmacist-driven clinical interventions for patients with inflammatory conditions at a health-system specialty pharmacy. American Society of Health-System Pharmacists Futures Meeting. June 2025.

Sypult C, Hill J, Barton M, Petite M. Adherence to recommended cardiac monitoring in breast cancer patients prescribed ribociclib. National Community Oncology Dispensing Association Spring Forum. April 2025.

Conant K, Petite M. Evaluating pharmacist-led interventions focused on infection management in inflammatory conditions at a health-system specialty pharmacy. National Association of Specialty Pharmacy Annual Meeting & Expo. September 2025.

Mitchell R, Petite M. Evaluating pharmacist interventions in a health-system specialty pharmacy: impact of embedded clinic pharmacists on specialty pharmacist intervention patterns. National Association of Specialty Pharmacy Annual Meeting & Expo. September 2025.

Awards & Other Recognitions

Aaron Cumpston, PharmD, BCOP

- Outstanding Team Member Award - 33rd Annual TCT Patient Reunion

Bernie Soccorsi-Long

- Bravo Award

Calvin Parmiter, PharmD, MHA

- Bravo Award

Chalyon Harris, CPhT, CSPT

- Bravo Award

Dixie Pyles, PharmD

- Commitment to Safety Award
- Good Catch Award - WVU Medicine Center for Quality Outcomes

Dmitry Walker, PharmD, MS

- Vizient Service Award as Chair of the Vizient Pharmacy Network Professional Development Workforce Committee

Erin Atkins, CPhT, CSPT

- 2025 ASHP Pharmacy Technician Excellence Award

Jenni Shahan, PharmD, BCPPS

- Bravo Award

Jon Wietholter, PharmD, BCPS, FCCP

- WVU School of Pharmacy: 2025 P3 Teacher of the Year

Julia Miller, PharmD, BCACP, CTTS

- YFP Gives Scholarship

Karrie Murphy, PharmD, BCGP, CDCES

- Rheumatology Advanced Practice Providers (RhAPP) National Conference Scholarship Recipient

Kelsi Conant, PharmD, MBA, CSP

- Masters in Business Administration

Kimberly Lusk, CPhT-ADV

- Bravo Award

Madison Dalrymple, CPhT

- Good Catch Award - WVU Medicine Center for Quality Outcomes

Matthew Whiteman, PharmD, BCPPS

- Grand Council Deputy Certificate of Excellence - Kappa Psi Pharmaceutical Fraternity, Inc.

Melissa Knopp, PharmD, BCPPS

- Cystic Fibrosis Foundation's 2025 Outstanding Care Center Partnership Award

Phattrakorn Powan, PharmD

- Good Catch Award - WVU Medicine Center for Quality Outcomes

Sarah Long

- ACCP AMED PRN Programming Committee Member of the Year

Shannan Molnar, BS Pharm

- WVU Medicine Bravo Award 2025 "Building a Better Workplace"

Shannon Brunzo-Hager, PharmD

- University of Tennessee Health Science Center College of Pharmacy (UTHSC) Outstanding Student Pharmacist Award
- UTHSC Outstanding Leadership in Community Pharmacy

Timothy Martin

- WVU School of Pharmacy Charles Stump Memorial & Marvin C. Wilson Community Service Award

Committee Appointments

American College of Cardiology

- Matthew Rockhold, PharmD, BCCP - Cardiovascular Team Pharmacist Workgroup, Member

Advanced Topics for Oncology Pharmacy Professionals (ATOPP)

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

American College of Clinical Pharmacy (ACCP)

- Bailey Colvin, PharmD, BCCP
 - Communications and Social Media Committee
- Jon Wietholter, PharmD, BCPS, FCCP
 - ACCP Credentials (FCCP) Committee
 - Adult Medicine PRN Member Engagement Committee
- Julie Sibbesen, PharmD - Drug Information Practice and Research Network (PRN) Chair Elect
- Matthew Rockhold, PharmD, BCCP
 - Membership Committee Member
 - Cardiology PRN Research and Scholarship Committee Member

American Society for Transplantation and Cellular Therapy (ASTCT)

- Aaron Cumpston, PharmD, BCOP - Pharmacy Research SIG Member
- Kelsea Seago, PharmD, BCOP - Communications & Membership Recognition Committee

American Society of Health-System Pharmacists

- Abbi Blevins, PharmD, MBA, CSP, CTTS - Executive Committee of Specialty Pharmacy - Liaison of the Business Advisory Group Director
- Anne Hummer, PharmD - New Practitioner Forum Advisory Group - Career & Leadership Development Committee Member
- Ashlee McMillan, PharmD, BCACP - Section of Pharmacy Educators Advisory Group Member
- Briana Kocher, PharmD, BCACP - SACP Primary Care Transformation Ad Hoc Committee Member
- Brooke Lawson, PharmD - Pharmacy Administration and Leadership Resident Collaborative, Student and Leader Engagement Chair
- Daniel O'Neil, PharmD, MS, FASHP, FACHE
 - Council on Pharmacy Management Member
 - Section Advisory Group on Strategy & Industry Disrupters Chair
- Derek Grimm, PharmD, BCPS - SPPL Business Development and System Integration Section Advisory Group
- Evan Turco, PharmD, BCPS - Specialty Pharmacy Practitioners Advisory Group on Accreditation and Compliance
- Hannah Trickett, PharmD, BCPS - Medication Management Section Advisory Group
- Jeffrey Mick, PharmD - Specialty Pharmacy Practitioners Advisory Group on Operational and Workforce Development
- Jessica Stewart, PharmD, CSP - Executive Committee of Specialty Pharmacy - Business Development Advisory Group Member
- Luning Shi, PharmD, MS, BCPS - New Practitioner Forum Executive Committee Chair
- Mileena Kendall, CPhT - SPPL SAG on Leadership Development & Succession Planning Member
- Samuel Yokum, PharmD, MBA - Executive Committee of Specialty Pharmacy - Business Development Advisory Group Vice Chair

Board of Pharmacy Specialties (BPS)

- Meera Mehta, PharmD, BCIDP - Board Certified Infectious Diseases Pharmacist (BCIDP) Specialty Council

Committee Appointments

Center for International Blood and Marrow Transplant Research (CIBMTR)

- Aaron Cumpston, PharmD, BCOP - Working Committee Member
- Kelsea Seago, PharmD, BCOP
 - Lymphoma Working Committee Member
 - Plasma Cell Disorders Working Committee Member

ECOG-ACRIN Cancer Research Group

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

Health System Owned Specialty Pharmacy Alliance (HOSP)

- Amanda Hunn, MBA-Hm, CPhT - Best Practices Committee
- Louis Sokos, BS Pharm, MBA
 - Best Practices Committee
 - Executive Committee
- Rachel Mitchell, PharmD, BCPS, CSP - Best Practices Committee
- Samuel Yokum, PharmD, MBA - Best Practices Committee

International Society for Heart and Lung Transplantation (ISHLT)

- Bailey Colvin, PharmD, BCCP
 - Early Career and Trainee Committee
 - Pulmonary Vascular Disease Interdisciplinary Network

International Health Facility Diversion Association (IHFDA)

- Calvin Parmiter, PharmD, MHA - Research Committee Member
- Shannan Molnar, BS Pharm
 - Policy and Guideline Steering Committee
 - Substance Use Recovery and Support Steering Committee

Kappa Psi Pharmaceutical Fraternity, Inc.

- Brooke Lawson, PharmD - WV Graduate Chapter
- Hunter Nash, PharmD - Mountain East Province Scholarship, Awards, and Philanthropy Committee Chair
- Mary Jane Braham, PharmD, MHA - Mountain East Province Satrap
- Matthew Whiteman, PharmD, BCPPS
 - Grand Council Deputy Development Committee
 - Risk Management Committee
- Skyee Edwards, PharmD, BCCCP - Mountain East Province Professional Development Committee Chair
- Timothy Martin - Mountain East Province Vice Satrap

National Association of Specialty Pharmacy (NASP)

- Jordan Nichols, PharmD, CSP - Government Affairs Committee

Phi Lambda Sigma Pharmacy Leadership Society

- Shannon Brunzo-Hager, PharmD
 - National New Member Engagement Committee Member and Subcommittee Lead
 - National New Membership Selection Taskforce

Committee Appointments

Pharmacy Technician Society (PTS)

- Mileena Kendall, CPhT-Adv, CSPT - Member Engagement Committee Member

Society of Critical Care Medicine (SCCM)

- Amanda Shigle, PharmD, BCCCP
 - CPP Membership Committee Junior Chair
 - Carolinas/Virginias Chapter Membership Committee
- Skyee Edwards, BCCCP - Communications Committee Member

Society of Infectious Diseases Pharmacists (SIDP)

- Meera Mehta, PharmD, BCIDP - Web Publications Evaluation Subcommittee Lead

Vizient Pharmacy Network

- Dmitry Walker, PharmD, MS
 - Infusion Forum Chair
 - Pharmacy Development and Workforce Committee Chair
- Kelsi Conant, PharmD, CSP - Vizient Pharmacy Network Forum
- Samantha Manson, PharmD, PharmD, MBA - Ambulatory Pharmacy Development Committee

West Virginia Department of Health

- Catessa Howard, PharmD, BCIDP - Healthcare Associated Infections Antimicrobial Resistance (HAI-AR) Multidisciplinary Advisory Group

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

Certifications

American College of Cardiology Fellow (FACC)

- Jordan Lacoste

American College of Healthcare Executives Fellow (FACHE)

- Daniel O'Neil

ASHP Drug Diversion Certificate

- Calvin Parmiter
- Shannan Molnar

ASHP Medication Safety Certificate

- Christina Deussenberry

ASHP Perioperative Pharmacy Services Certificate

- Brett Harmon
- Paige Vanek

AVADE Workplace Violence Prevention Instructor

- Elizabeth Berry Bartolo

Board Certified Ambulatory Care Pharmacist (BCACP)

- Emily Bowman
- Julia Miller
- Madelyn Harvey

Board Certified Critical Care Pharmacist (BCCCP)

- Nicolas Jozefczyk

Board Certified Pharmacotherapy Specialist (BCPS)

- Ashton Swain

Certified Pharmacy Specialist (CSP)

- Samantha Manson

Certified Professional in Human Factors in Health Care (CPHFH)

- Maria Cumpston

Pharmacogenomics Certificate Program

- Julie Sibbesen
- Jeanette Rich

Pharmacy Technician Certification Board (PTCB)

- Advanced Certified Pharmacy Technician (CPhT-Adv)
 - Kimberly Lusk
 - Mary Martin
 - Mileena Kendall
- Compounded Sterile Preparations Technician (CSPT)
 - Faith Johnson
- Hazardous Drug Management Certificate
 - Ashley Murray
- Technician Product Verification Certificate
 - Ashley Murray



PHARMACY

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