



2021 Pharmacy Enterprise Annual Report



PHARMACY

From the Chief Pharmacy Officer

It is my distinct pleasure to present our Fiscal Year 2021 (and first ever) Pharmacy Annual Report for West Virginia University Hospitals. The pharmacy team across all our practice locations in Morgantown have done a tremendous job providing patient-centered care that has improved medical outcomes while helping to reduce overall health care costs.



It has been a very trying year for all of us across the country, including all of our staff and patients we care for. I am so proud of all of you and your resilience in coping with the world pandemic we have faced and your continued efforts to ensure our patients are cared for. It is my hope that as we continue to 'vaccinate our way out of the COVID-19 pandemic' we can very soon get back to tackling the strategies we have set out as a department to continue our efforts to improve the health care for every West Virginian.

The collective and individual accomplishments of our department and staff are far too many to mention. Our focus has been, and will continue to be, on enhancing the patient experience as they transition throughout our health system, providing evidence-based medication management and improving the value of health care for our patients. We have been able to accomplish this by aligning our department goals with the goals of the organization and by maintaining a focus on the critical opportunities in front of us.

I encourage each of you to take some time to read through the FY21 annual report and celebrate the accomplishments of our department and your peers. We will continue to be challenged this year to deliver on the value of WVU Medicine health care in a continuing challenging 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 am truly honored and humbled by the opportunity to lead such a fantastic group of individuals at the very best health care system in West Virginia. I am looking forward to what we can accomplish in 2022!

Warmest regards,

A handwritten signature in black ink, appearing to read "Todd Karpinski".

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

OUR MISSION

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

OUR VISION

To be a nationally recognized, high functioning, employee focused pharmacy enterprise delivering exceptional patient care

OUR VALUES

Provide **Safe and Efficient Care**

Be **Employee Focused**

Drive **Financial Performance**

Educate and **Innovate**

Improve **Quality** of Patient Care



Pharmacy Leadership Team

Chief Pharmacy Officer



Todd Karpinski

PharmD, MS, FASHP, FACHE

Directors of Pharmacy



Daniel O'Neil

PharmD, MS, BCPS
WVU Hospitals



Karen Famoso

BS Pharm, MBA
Compliance and 340B



Louie Sokos

BS Pharm, MBA
Specialty Pharmacy Services



Derek Grimm

PharmD, BCPS
Medication Use



Dave Cecere

PharmD, MBA
Business Operations



Joe Gonzaga

PharmD, MPH
Retail Pharmacy Services

Pharmacy Leadership Team

Assistant Directors of Pharmacy



Renee Sager

PharmD

Medication Use and Compliance



Jordan Carter

PharmD, MS

Central Inpatient Operations



Courtney Sweet

PharmD, BCPPS

Pediatric Pharmacy Services



Casey Yokum

PharmD

Specialty Pharmacy Services



Ashley Street

PharmD, MSHA

Adult Clinical Services and Education



Dmitry Walker

PharmD, MS

Oncology and Infusion Services

Pharmacy Managers



Karly Dancsecs

PharmD, MBA, BCPS

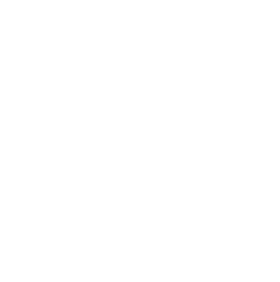
Central Operations and
Controlled Substances



Marc Phillips

PharmD, CPHQ

Supply Chain



Renee Postlethwait

B.S. Pharm

Retail Pharmacy Services



Lisa Keller

PharmD, BCPS, BCIDP

Pharmacy Residency and
Education

Pharmacy Leadership Team

Pharmacy Managers



Rachel Mitchell
PharmD, BCPS, CSP
Speciality Pharmacy Services



Kristin Austin
PharmD, MS
Sterile Products and
Perioperative Services



Jared Lapkowitz
PharmD
Retail Pharmacy Services



Jessica Stewart
PharmD
Speciality Pharmacy Services



Jalyn Robinson
PharmD, CSP
Home Infusion



Lisa Garavaglia
PharmD, BCPPS
Pediatric Pharmacy Services



Mike Konietzko
PharmD, MS, BCPS
Adult Critical Care,
ED, and Surgery



Autumn Petersen
PharmD, MPH, MS, BCPS
Oncology and Investigational Drug Services



Blake Barlow
PharmD, MBA, MS, BCPS
Adult Medicine and Cardiology



Will Hammonds
PharmD, MS, BCPS
Ambulatory and Transitions of Care



Staci Czyzewski
PharmD, MPH, MS, BCPS
Enterprise Pharmacy Business Manager

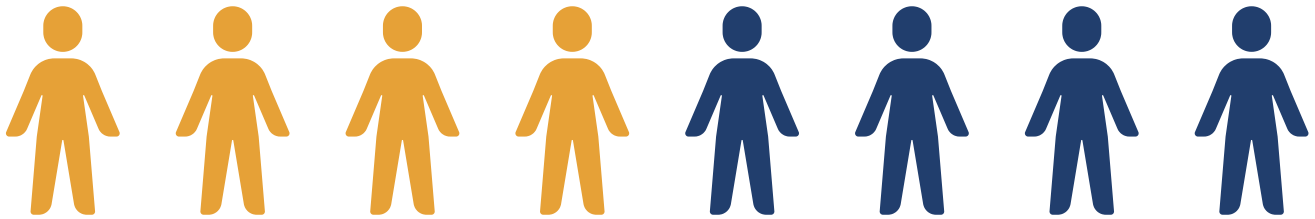
Maria Cumpston
PharmD
Medication Safety

CLINICAL PHARMACY SERVICES

Clinical pharmacy specialists and generalists at WVUH provide patient care to adult and pediatric 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, precepted learners, and served on department and hospital committees and workgroups to advance the practice of pharmacy and raise the quality of patient care at WVUH.



Clinical Pharmacy Services



8 Clinical Pharmacy Divisions



Clinical Pharmacy Services

126,612

PHARMACY INTERVENTIONS

11,847

MEDICATION RECONCILIATIONS

44,469

NOTES PLACED

71

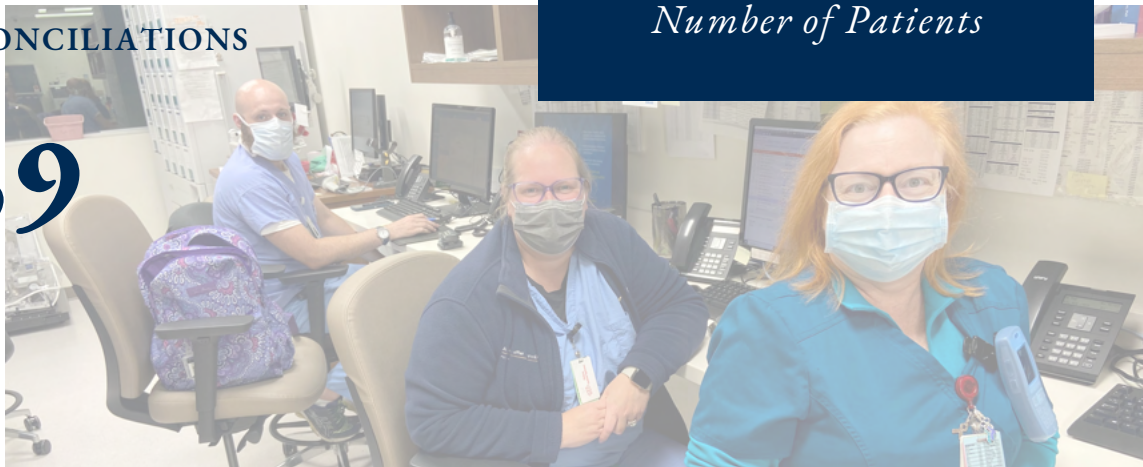
BOARD CERTIFIED
PHARMACY SPECIALISTS

604.5

Average Daily Census

50,067

Number of Patients



2021 ADULT HIGHLIGHTS

- Added additional pharmacy support for growth through the recruitment of 7 new evening, critical care, cardiology, and medicine clinical pharmacist FTEs
- Established new pharmacist practice sites in the ambulatory setting at the Suncrest Endocrine Clinic and the POC Neurology Clinic
- Expanded Medication History Technician program to 10 technicians and established technician coverage of Emergency Department patients
- Four new frontline pharmacy managers overseeing Medicine & Cardiology, Critical Care & Surgery, Oncology, and Ambulatory Care & Transitions of Care joined the team
- Established the Antithrombotic Stewardship Program and developed program structure
- Provided support to the WVU Medicine Enterprise through clinical pharmacist involvement with the development and implementation of medication utilization projects to drive quality improvement

Clinical Pharmacy Services

GETTING READY FOR THE NEW CHILDREN'S HOSPITAL



10

NEW
PHARMACY
OPERATIONS
TECHNICANS

4

NEW PHARMACY
GENERALISTS

24/7

ADDITION ALLOWS FOR FULL
TIME COVERAGE OF
CHILDREN'S HOSPITAL AND
STERIL COMPOUNDING

3

NEW
TRANSITIONS OF
CARE CLINICAL
PHARMACY
TECHNICIANS

8

NEW PHARMACY
SPECIALIST
TECHNICIANS

2

NEW ABULATORY
CARE SPECIALIST
POSITOINS

2021 CHILDREN'S HOSPITAL HIGHLIGHTS

- Celebrated the 5th year of the PGY-2 Pediatric Residency Program with two pharmacy residents
- Welcomed Lisa Garavaglia as the Pharmacy Manager and Erin Atkins as the Lead Technician
- Clinical Pharmacists continue to provide care for Obstetrics, NICU, PICU, Pediatrics, Hematology/Oncology, and Speciality Services
- Ambulatory services now providing care for Hematology/Oncology, Cystic Fibrosis, Pulmonary, and Infectious Diseases

Clinical Pharmacy Services

Ambulatory Care

The Ambulatory Care Adult Clinical Services pharmacy division comprises all specialist pharmacists providing care in outpatient clinics for adult patients. A dynamic team of six ambulatory and three hybrid clinical pharmacists practice in six primary care and specialty clinics, with many in the process of establishing collaborative practice agreements with the clinic providers. Work towards establishing pharmacist referral services and scheduling was led by pharmacists, building the foundation for advancing the level of clinical services provided.

Acute Care

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 sixteen clinical generalist pharmacists and twenty-seven 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.



Clinical Pharmacy Services (Cont.)

Oncology

The Adult Oncology Pharmacy Division provides comprehensive clinical and operational pharmacy services for inpatient and ambulatory patients receiving oncology therapy as well as all clinical trials involving investigational medication therapy at WVUH. The division is composed of 20 clinical pharmacists and 9 pharmacy technicians dedicated to providing the highest quality of pharmacy services and education for our patients and clinical teams. Clinical pharmacists are integrated into the patient care team within both the inpatient and ambulatory sites of oncology care. The pharmacy technicians within the oncology division combine meticulous compounding technique and utilization of sterile compounding workflow technology to ensure the highest level of safety and accuracy in medication preparation for our patients.



By the Numbers

- 191,182 infusion center and clinic orders verified and prepared
- 26,792 infusion visits supported with clinical and operational services
- 53,387 oncology clinic visits supported with clinical services
- Expanded clinical services by **4 Oncology Pharmacy Specialists**
- Expanded operational services by **6 new Pharmacy Technicians**
- Supported oncology clinic and infusion services expansion to **4 new health-system sites**

Clinical Pharmacy Programs

Antithrombotic Stewardship Program

The Antithrombotic Stewardship Program (ASP) is dedicated to enhancing the safety and quality of antithrombotic use across the continuum of care of WVU Hospitals. Established in 2021, this team is comprised of two clinical specialist pharmacists, one clinical pharmacy technician, and is overseen by a physician medical director. The ASP team works collaboratively with clinical pharmacists and medical staff to positively impact the safe and effective utilization of antithrombotic medications and achieve optimal patient outcomes while minimizing harm.



Medication History Technican Program

The Medication History Technician (MHT) Program works in tandem with clinical pharmacists and pharmacy interns to complete accurate medication histories for all medium and high-risk patients upon admission. The MHT team is comprised of ten clinical pharmacy technicians assigned to most inpatient medical teams and is led by one technician supervisor. The work conducted by the MHT team is pivotal for providing the team with the information needed to ensure safe and appropriate medication management for patients.

Clinical Pharmacy Programs

Outpatient Antimicrobial Therapy Program

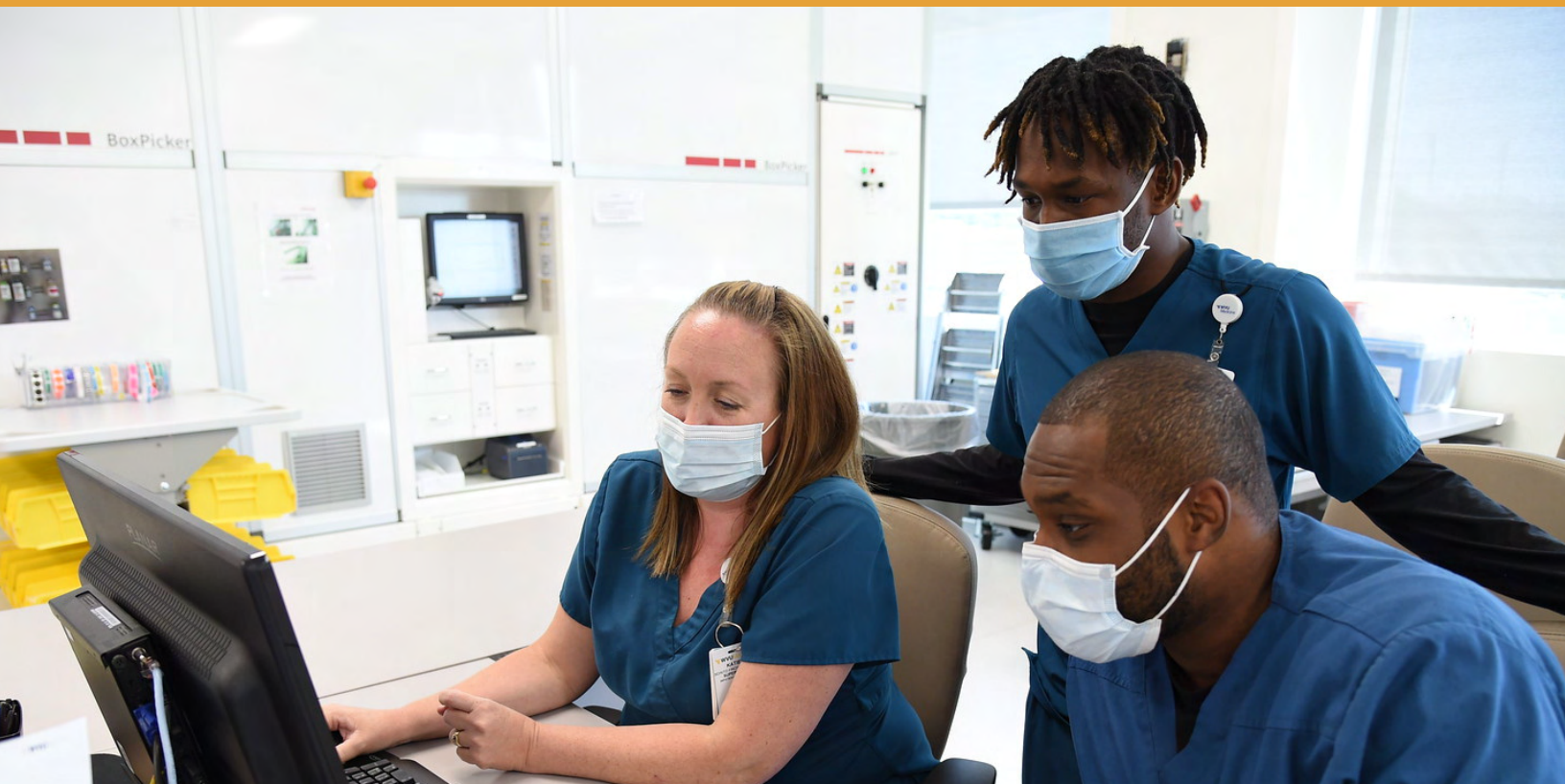
The Outpatient Antimicrobial Therapy Program (OPAT) improves the health of the community by providing improved access to antibiotic treatment. Highlights of the OPAT program are:

- Decreased antibiotic days for targeted Diagnosis Related Groups by 2 days (13 days to 11 days)
- Decreased antibiotic spend for targeted Diagnosis Related Groups to below median value compared to Vizient Academic Medical Centers
- Decreased antibiotic spend per 1,000 patient days by 28% - resulting in over \$1million in cost avoidance
- Recognized by the WV Rural Health Association as a 2021 West Virginia Rural Health Leader
- Contributed to the scientific body of literature, including a publication on outpatient intravenous and complex oral antibiotic therapy



INPATIENT OPERATIONS

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.



Inpatient Operations

2,535,889

ORDERS VERIFIED



63

ANESTHESIA
WORKSTATIONS

117

OMNICELL XT
MACHINES



10

CONTROLLED
SUBSTANCE TOWERS



Inpatient Operations



HIGHLIGHTS

Successfully implemented Omnicell automation conversion across 6 hospitals within WVU Hospitals

Installed the following Software Enhancements:

- Bluesight for controlled substance diversion monitoring
- Anesthesia Medication Reconciliation (AMR) workflows for anesthesia case reconciliation
- Central Pharmacy Manager (CPM) for improved inventory visibility
- Omnicell One for inventory and software analytics

Compounding Services:

- Effectively implemented Epic Dispense Prep for all sterile preparations in the Mary Babb Randolph Cancer Center (MBRCC) and WVU Children's Hospital
- Employed Epic Dispense Prep for all hazardous products in the central pharmacy

Sterile Products Area:

- Beyond Use Date vs Expiration label changes to help reduce waste and increase availability to nursing staff
- Extended dating for epinephrine and phenylephrine
- COVID vaccine and monoclonal antibody preparation

Perioperative Services:

- Updated periop redosing guidelines and protocol
- Support for fecal transplant and Jelmyto administration

MEDICATION USE, QUALITY, AND COMPLIANCE

The focus of WVU Medicine Health System Medication Use Team is to collaborate with healthcare professionals to promote the safe and effective 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 administration. 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.

Medication Use is also responsible for the coordination of the WVU Medicine Health System Pharmacy & Therapeutics (eP&T) Committee, in addition to the eight subcommittees focusing on ambulatory care, hematology/oncology, critical care, perioperative services, anti-thrombotic stewardship, anti-microbial stewardship, formulary standardization and medication safety.

HIGHLIGHTS

The Medication Use assisted with the COVID-19 therapeutics, including vaccine and monoclonal antibody guidance and the development of appropriate criteria for use in an effort to support front-line clinicians during the global pandemic. In addition, other activities included:

- 25 guidelines developed and/or revised in collaboration with clinical pharmacy staff
- 11 drug class reviews
- 6 criteria for use revisions
- Implementation of a therapeutic interchange for 25 drug classes
- 6 pharmacist protocol orders implemented
- Project oversight for 18 resident Medication Use Evaluation (MUE)

MEDICATION USE, QUALITY, AND COMPLIANCE

Specific initiatives the Medication Use Team focused on included:

- Evaluated all formulary requests and performing continuous formulary management services
- Developed appropriate medication criteria for use
- Facilitated clinical practice and guideline reconciliation
- Provided clinical support surrounding drug shortages and recalls
- Integrated with the West Virginia Center for Drug and Health Information to expand drug information support services
- Formed the Gene and Cellular Therapy Taskforce to assist with complex and costly medication regimens surrounding CAR-T therapies and Exon Skipping Therapies

Drug Diversion Prevention:

- Addition of a Drug Diversion Coordinator position
- Created the WVUH Oversight Committee
- Bluesight software implemented

P&T COMMITTEE HIGHLIGHTS

27

MEDICATIONS ADDED TO
FORMULARY

21

GUIDELINES REVIEWED

15

POLICIES REVIEWED

28

MEDICATIONS REMOVED
FROM FORMULARY

62

PROTOCOLS REVIEWED

62

CRITERIA FOR USE MEDICATIONS
REVIEWED

340B MANAGEMENT PROGRAM

Enterprise 340B Program Management is responsible for performing all duties associated with administering the 340B program at WVU Medicine in alignment with current rules and regulations outlined by the Health Resources and Services Administration (HRSA) and the Office of Pharmacy Affairs (OPA). The goal of the Program is to ensure program compliance, maximize efficiencies, determine areas of growth and improvement, and support leadership of WVUHS



340B Management

By The Numbers

Program Expansion:

- Added 4 hospitals to oversight program
 - Reynolds, Jackson, Braxton, Uniontown
- Implemented 37 new contract pharmacy arrangements
- Hired 3 additional audit and compliance analysts

Ongoing Expansion (Projected):

- Expanded from 12 to 17 covered entities
- Expanded from 6 to 11 hospital owned 340B programs
- Expanded from 132 to 184 contract pharmacies

Program Volume:

- Surpassed \$192M in generated savings
- Audited 13,388 prescription claims

HIGHLIGHTS

- Developed and implemented system-wide 340B policies and procedures
- Converted 3 hospitals to carve-in for Medicaid
- Created and implemented compliance dashboard report
- Completed and analyzed wholesaler price file error report

SPECIALTY PHARMACY SERVICES

Allied Health Solutions Specialty Pharmacy is a West Virginia-based pharmacy filling prescriptions for patients with unique and complicated medical conditions. The pharmacy works with insurance companies and physicians to make sure patients have timely access to medication and provide clinical guidance to ensure medication is administered safely. The goal is to simplify and improve the treatment process.



4,551

MONTHLY PRESCRIPTION FILL RECORD

Specialty Pharmacy Services

By The Numbers

Couriers:

- Total of 22,326 deliveries completed
- Single day delivery record: 122

Operations:

- Single month prescription fill record: 4,551
- Total of 50,958 scripts dispensed
- <1% of prescription fill error/complaint rate

Pharmacists:

- 5,136 Lab Interventions
- 2,187 Clinical Interventions
- 2,400 Initial Patient Assessments
- 5,009 Follow-Up Patient Assessments

38,703

**TOTAL
DELIVERIES**

Pharmacy Technicians:

- 10/10 first attempt passing PTCB examination
- 21,322 total Technician Patient Assessment

HIGHLIGHTS

- Transitioned to eco-friendly portable refrigerators for courier deliveries
- Created online tracking method of USP 795 compliance
- Completed patient satisfaction survey of eco-friendly packaging
- PEIA Specialty Network
- Acquired 23 Manufacturer Limited Distribution Drugs
- NASP Net Promoter Score 88.4

Specialty Pharmacy Services



Launched in August and received clean room certification with Fil-Tech in October 2021.

WV Board of Pharmacy approved clean room inspection and awarded Allied Health Solutions Sterile Compounding Licensure in November 2021.

Allied Health Solution Home Infusion Pharmacy was credentialed with WV Highmark Blue Cross Blue Shield for Home infusion services In November 2021.

AHS Home Infusion is partnered with CarepathRx for the intake, billing, and clinical management aspects of Home Infusion Pharmacy Services.

AHS Home Infusion's 'soft-launch' started with a focus on Rheumatology, GI, and Immunology disease states. Goals for 2022 include an expanded focus to additional specialty clinics and medications, including but not limited to Neurology with Ocrevus and Vyepti, Opthamology with Tepezza, and Hyperlipidemia with Evkeeza.

Infusion Pharmacy Services accreditation via ACHC is currently in pursuit with a virtual survey visit expected in early Jan 2022. This accreditation will open the door to additional insurance providers and patients beyond the current demographic of specialty infusion medications through WV Medicaid, Medicare Part D, and WV Highmark BCBS.

RETAIL PHARMACY SERVICES

Retail Pharmacy Services

comprises three retail pharmacies in the Morgantown area. Two are located on-campus at Ruby Memorial Hospital and the third at the WVU Health and Education Building. We are dedicated to providing 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. Our emphasis is on providing timely, safe, and accurate prescription services while educating patients on the importance of their medication.

> 330,000
PRESCRIPTIONS DISPENSED

Retail Pharmacy Services

By The Numbers

Medical Center Pharmacy:

- 203,956 prescriptions filled
- Increased volume by 14,000 from 2020
- Record of 24,236 filled in December

Discharge Pharmacy:

- 72,462 Prescriptions Filled
- Increased volume by 12,000 from 2020.
- Overall prescription capture rate increased by 10% to 66.5% for 2021
- Combined Med Center/Discharge Pharmacy financial revenue of \$46.6M

Mountaineer Pharmacy:

- 63,357 Prescriptions filled
- Increased volume by 8,500 from 2020
- Pill packaging services now servicing over 100 patients
- Financial revenue of \$5.6M

HIGHLIGHTS

- Improved Meds-to-Beds capture rate to over 60%
- Improved Medication Therapy Management Services by 100% from 2020
- Delivered and mailed over 120,000 prescriptions to patients and employees
- Optimized drug inventory resulting in over \$1M in savings on drug purchases
- Completed redesign of Pharmacy Lobby to enhance patient workflow
- Exceeded processing time metrics for Meds to Beds prescriptions

BUSINESS By The Numbers OPERATIONS

Supply Chain:

- Improved drug shortage management
- Expanded system utilization of Sure Supply partnership
- PCSC proposal of offsite facility for pharmacy services
- Continued support of ever-changing COVID vaccine and monoclonal antibody situation

Patient Assistance:

- Over 100 patients provided free medication
- Over 300 medication doses provided to patients
- Over \$3M in medication savings obtained for patients

Informatics:

- Expanded Simplifi 797 across the system
- Expanded ConsortiEX across the system
- Developed Epic enhancement review process
- Implemented Omnicell user request system via Cherwell

Finance:

- Financial reviews identified and corrected over \$3.7M in medications
- Assisted with a charge markup change that is expected to show a large increase in revenue system-wide
- Assisted with the implementation of the outpatient MAR



EDUCATION AND TRAINING

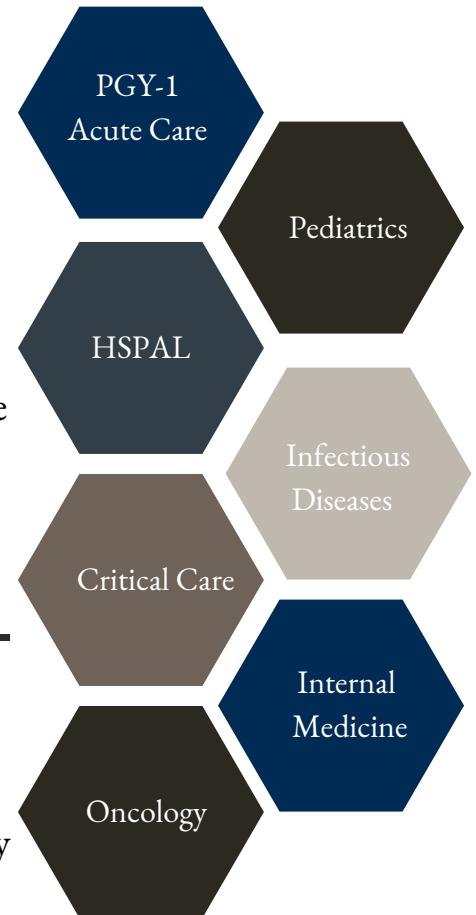


RESIDENCY CLASS OF 2021-2022

The WVU Medicine Pharmacy Residency Program was started in 1985 by then Residency Coordinator, Art Poremba, and accredited by ASHP in 1987. Since its inception, 127 residents have completed the PGY-1 program. Since the program's inception, 36 classes have completed the program, consisting of nearly 200 residents. The program continues to gain national exposure, having had residents originally from schools located in nearly half of the 50 states. In 2021, four PGY-2 graduates from the 2020-2021 class accepted positions at WVU Medicine.

2021 Residency Program Highlights

- The PGY-1 Pharmacy Practice (Specialty-focus) residency graduated its first resident and completed the ASHP residency accreditation survey
- Approval of a PGY-2 Cardiology residency and a PGY-2 Ambulatory residency, slated to begin in 2022



Pharmacy Residency and Education

Pharmacy 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 staffing supportive technical functions. They also participate in a resident-student mentoring program and have the opportunity to complete medication use projects to present at conferences.

Pharmacy Students

WVU Hospitals' Department of Pharmacy has a strong commitment to education. We offer advanced pharmacy practice experience (APPE) rotations across all practice settings such as acute and ambulatory care clinical practice, community practice, administration, and other specialized electives. The department also hosts an application-based longitudinal track program for APPE rotations designed to emphasize residency preparation. There are also community and institution introductory pharmacy practice experiences offered to WVU School of Pharmacy students.

HIGHLIGHTS

- WVUH pharmacists precepted 120 WVU SOP student experiential rotations in 2021
- Fifteen WVU SOP students completed the longitudinal APPE track in 2020-2021, with another cohort of fifteen students beginning the track in 2021-2022
- The department increased number of APPE rotations available to WVU SOP students to provide more clinical training opportunities for students interested in residency
- WVUH preceptors led a residency preparation series for all fourth-year students



COVID VACCINATION CLINICS



PUBLICATIONS & PRESENTATIONS

Publications

Aljuhani M, Makati D, **Hoff A**, Thompson J, Pellegrino B, Shawwa K, Schmidt R, Kannabhiran D. Antibody subtypes and titers predict clinical outcomes in ANCA-associated vasculitis. *Rheumatology International*. 2021 May;41(5):965-72.

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Morse AL, Cumpston A. Chronic myeloid leukemia. In: Schwinghammer TL et al, eds. *Pharmacotherapy Casebook: A Patient-Focused Approach*. 12th ed. New York: McGraw-Hill, 2023. (Accepted).

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Quinn HB, Busch RS, Kane MP. The Occurrence and Burden of Hypophosphatasia in an Ambulatory Care Endocrinology Practice. *Endocr Pract*. 2021;27(12):1189-1192. doi:10.1016/j.eprac.2021.07.005.

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Presentations

Burwell S. Challenging High Achieving Pharmacy Learners: Cultivating Critical Thinking and Creativity. Virtual presentation at: 2021 National Pharmacy Preceptors Conference; October 21, 2021.

Chiplinski A. Panel: Multidisciplinary Approach to Stroke Care – Pharmacological, Hematological, and Cardiac Considerations for Stroke Management. Roundtable discussion at the 2021 WVU Medicine Stroke Conference. May 2021.

Chiplinski A. The Pharmacist's Role on the Stroke Team. Presentation at the 2021 WVU Medicine Stroke Conference. May 2021.

Cumpston M. Are You Engaged with Safety? ISMP Medication Safety Targeted Best Practices and Compliance Implementation Across an Enterprise. Presentation at the 2021 Virtual Midyear Meeting of American Society of Hospital Pharmacists (ASHP), December 2021.

Fogle A, Shigle A, Greco A, Cumpston M. Evaluation of Vasopressin Usage for Septic Shock in the Critical Care Setting. Presentation at the 2021 Virtual Midyear Meeting of American Society of Hospital Pharmacists (ASHP), December 2021.

Goodner J, Seago K, Dillaman M, Wen S, Cumpston A. Evaluation of an increased length of intravenous magnesium infusion on the need for magnesium replacement in patients after allogeneic cell transplant. Poster presentation at HOPA Annual Conference, April 2021 (held virtual due to COVID).

Gutta B, Parmiter C. Implementation of Remote Medication History Technician Workflow during COVID-19 and Its Impact on Bedside Discharge Medication Delivery Services Acceptance Rate. Management Case Series. Presentation at ASHP Midyear. December 2021. Virtual

Marciano K, Seago K, Dillaman D, Cumpston A. Evaluation of the pharmacokinetic interaction between letermovir and tacrolimus in allogeneic hematopoietic stem cell transplant recipients. Poster presentation at HOPA Annual Conference, April 2021 (held virtual due to COVID).

Presentations (cont.)

Maynor LM, **Wietholter JP**, Clutter J. Personality Type and Second-Year Academic Performance in a Doctor of Pharmacy Program. AACP Annual Meeting, Virtual Poster Session Online: July 2021. Meeting abstract to be published in Am J Pharm Educ.

McMahan E, Coetzee R, **Wietholter JP**. Teaching psychiatric disorders to pharmacy learners in South Africa via distance-based technology: development of an educational framework by a PGY-2 internal medicine pharmacy resident. 2021 ACCP Annual Meeting on Clinical Pharmacy. October 19th, 2021. Meeting abstract to be published in J Am Coll Clin Pharm.

O'Neil DP, Wascher M, Holmes D. COVID-19 and the Rise of a Remote Workforce: Part 1 – Pharmacists. American Society of Health-System Pharmacists Podcast.

O'Neil DP. Managing Remote Teams and Emerging Models. American Society of Health-System Pharmacists Conference for Pharmacy Leaders 2021. Virtual.

Shultz CT, Wakefield C, Rollins S, Wen S, Veltri L, Ross K, Craig MD, **Cumpston A**, Hamadani M, Kanate AS. Reduced toxicity conditioning allogeneic hematopoietic cell transplantation with once daily intravenous busulfan for relapsed/refractory lymphoma – a phase II study. Accepted for presentation at Transplantation and Cellular Therapy Meetings of ASTCT and CIBMTR 2021.

Speerhas, T. Presentation 1: Premier Breakthroughs21; Biosimilar Decision Making: Choose Wisely / Presentation 2: ASHP Midyear 2021: Implementation of a Review and Adoption Process for Biosimilar Therapies at a Multi-Hospital Health System.

Walker D & Speerhas T. Implementation of a Review and Adoption Process for Biosimilar Therapies at a Multi-Hospital Health System. Platform presentation as part of the American Society of Health-Systems Pharmacists Annual Meeting. December 2021.

Wietholter JP, Maynor LM, Clutter J. Personality Type Impact on Second-Year Pharmacy Academic Performance in Integrated Systems-Based Therapy Courses. 2021 ACCP Annual Meeting on Clinical Pharmacy. October 19th, 2021. Meeting abstract to be published in J Am Coll Clin Pharm.

AWARDS & COMMITTEE APPOINTMENTS

Awards

Dmitry Walker, PharmD, MS

WVU School of Pharmacy IPPE Preceptor of the Year

Daniel O'Neil, PharmD, MS

Generation Next — 40 Leaders under 40 - The State Journal / West Virginia News

Jon P. Wietholter, Pharm.D, BCPS, FCCP

2021 American College of Clinical Pharmacy (ACCP) Annual Meeting
ACCP Top Poster Finalist (1 of 4 nominees)

Adult Medicine PRN “Top 10” Poster “Personality type impact on second-year pharmacy academic performance in integrated systems-based therapy courses”

Kara Piechowski, PharmD, BCPS, BC-ADM, CTTS

2021 Next Generation Health-System Pharmacist Award

Erin McMahan

2021 ACCP Adult Medicine PRN Travel Grant Recipient

Outpatient Parenteral Antimicrobial Therapy Team

2021 West Virginia Rural Health Leaders

Committee Appointments

Cavan O'Kane, PharmD, BCPS, CTTS

ACCP Adult Medicine PRN Trainee Engagement Committee Member

Daniel O'Neil, PharmD, MS

Section Advisory Group on Strategy & Industry Disrupters -ASHP

Section of Pharmacy Practice Leaders

Jon P. Wietholter, Pharm.D, BCPS, FCCP

ACCP Adult Medicine PRN 2021-2022 Chair

ACCP Adult Medicine PRN 2020-2021 Chair-Elect and Programming Committee Chair

Abigail Hoff, PharmD, BCPS, CTTS

Vizient National Research Committee

Calvin Parmiter, PharmD, BCPS

Section Advisory Group on Value, Quality, and Compliance -ASHP

Section of Pharmacy Practice Leaders

Derek Grimm, PharmD

Section Advisory Group on Business Development and System Integration

Will Hammonds, PharmD, MS, BCPS

Section Advisory Group for New and Emerging Leaders – ASHP Section of Pharmacy Practice Leaders

Member Engagement Standing Committee – APhA New Practitioners Forum

Blake Barlow, PharmD, MBA, MS, BCPS

Section Advisory Group for New and Emerging Leaders – ASHP Section of Pharmacy Practice Leaders

Committee Appointments

Dmitry Walker, PharmD, MS

Section Advisory Group for New and Emerging Leaders - ASHP Section of Pharmacy Practice Leaders

Vizient University Health System Consortium Pharmacy Development and Workforce Committee Member

Maria Cumpston, PharmD, CPPS

Vizient Quality Safety and Compliance CMTE - Medication Safety

Bradley Gutta, PharmD, BCPS

Vizient University Health System Consortium Pharmacy Development and Workforce Committee Member

Section Advisory Group on Health System Pharmacy Administration and Leadership Residents - ASHP Section of Pharmacy Practice Leaders

Jay L Martello, PharmD, BCPS

ACCP Clinical Practice Affairs A Committee – Vice Chair

Ashley Street, PharmD, MSHA

ACCP Clinical Administration PRN Student & Residents Committee
2021-2022 Chair

Autumn Petersen, PharmD, MPH, MS, BCPS

ASHP New Practitioner Forum-Career Development Advisory Group

Committee Appointments

Rachel Mitchell, PharmD, CSP, BCPS

Section Advisory Group for Outcomes and Value- ASHP Section of Specialty Pharmacy Practitioners

Jessica Stewart, PharmD

Section Advisory Group on Accreditation & Compliance - ASHP Section of Specialty Pharmacy Practitioners

Casey Yokum, PharmD

National Association of Specialty Pharmacy (NASP) Technology Committee

Abbi Blevins, PharmD, MBA, CSP

Section Advisory Group for Student and Residency Awareness – ASHP Section of Workforce Development

Louis Sokos, BS Pharm, MBA

Health System Owned Specialty Pharmacy Alliance (HOSP) - Board of Directors









2021 Pharmacy Enterprise Annual Report



PHARMACY