# Department of Pharmacy

## 2021 YEAR IN REVIEW

Princeton Baptist Medical Center
Brookwood Baptist Health.

# MISSION

*To extend the healing ministry of Christ through holistic, people-centered health care by the core values of:*

***Quality, Innovation, Service, Integrity, Transparency***

# VISION

*The department will be recognized for the highest quality of pharmaceutical care & compassionate, Christian service.*

*We will provide clinical & operational service, professional leadership, & educational excellence that exceeds customer satisfaction.*

*We will move pharmacy health forward through innovative use of technology, people & passion.*

*Our reputation will be one of collaborative teamwork, employee satisfaction, & superior patient outcomes.*

# Message from the Director

I am pleased to present the 2021 Annual Report for Princeton Baptist Medical Center Department of Pharmacy Services. The theme for the year was: **EVOLUTION→BUILDING EFFICIENCY** which highlights our mid-pandemic goals:

- Successfully pass regulatory surveys
- Streamline intradepartmental communication
- Improve access to essential pharmacy functions
- Hardwire automated dispensing machines and pneumatic tube deployment efficiency

2021 was a challenging year. The never-ending pandemic surges, personnel attrition, economy, drug shortages, and social justice issues all contributed to ongoing concerns. Nevertheless, pharmacy staff demonstrated resilience, ingenuity, purposeful commitment, and remarkable work ethic to these goals.

The American Society of Health-System Pharmacists and The Joint Commission noticed our efforts. *"The straw that stirs the drink"* became the mantra for our pharmacy residency, clinical, and operations practices. It continues to be a privilege to work alongside the clinical, staff, and technician colleagues that make up our team. I look forward to the advancement of an efficient workspace in 2022.

Best Regards,

Helen McKnight, PharmD, MBA, BCSCP

EVOLUTION
BUILDING EFFICIENCY

# Excellence in Accreditation

## Residency Reaccreditation – Spring 2021

- Overhauled learning experiences
- Prepared 500+ page pre-survey packet
- Two-day virtual survey

Accolades

- ❖ PGY1 – Renewed 4-year accreditation
- ❖ PGY2 – Obtained 4-year accreditation

## The Joint Commission Reaccreditation – Fall 2021

- Department training on hospital policy
- Focus on medication management
- Five-day onsite survey

Accolades

- ❖ Key performance in sterile products, opioid and antimicrobial stewardship
- ❖ Praised as *"Department of Excellence"*
- ❖ PBMC – Renewed 3-year accreditation

**T**ogether
**E**veryone
**A**chieves
**M**ore

The Pharmacy Department consists of 46 caregivers, including 23 pharmacists, 16 technicians, 4 pharmacy residents, and 3 pharmacy interns. The central pharmacy operates 24 hours a day, seven days a week.

Pharmacy specialists at Princeton Baptist Medical Center are integrated into the Medical Intensive Care, Surgical Intensive Care, Cardiovascular Intensive Care, Neuro Intensive Care, and Internal Medicine patient care teams. Pharmacy generalists are implemented into our Medical (4 West and 5 West) and Surgical (6 West) nursing units as well as our metabolic and bariatric surgery clinic.

**11 Board-Certified Pharmacists**

bps Board of Pharmacy Specialties®

**9 PTCB-Certified Technicians**

PTCB Pharmacy Technician Certification Board®

***We shall move pharmacy health forward through people, passion, and vision.***

# 438,315 orders verified

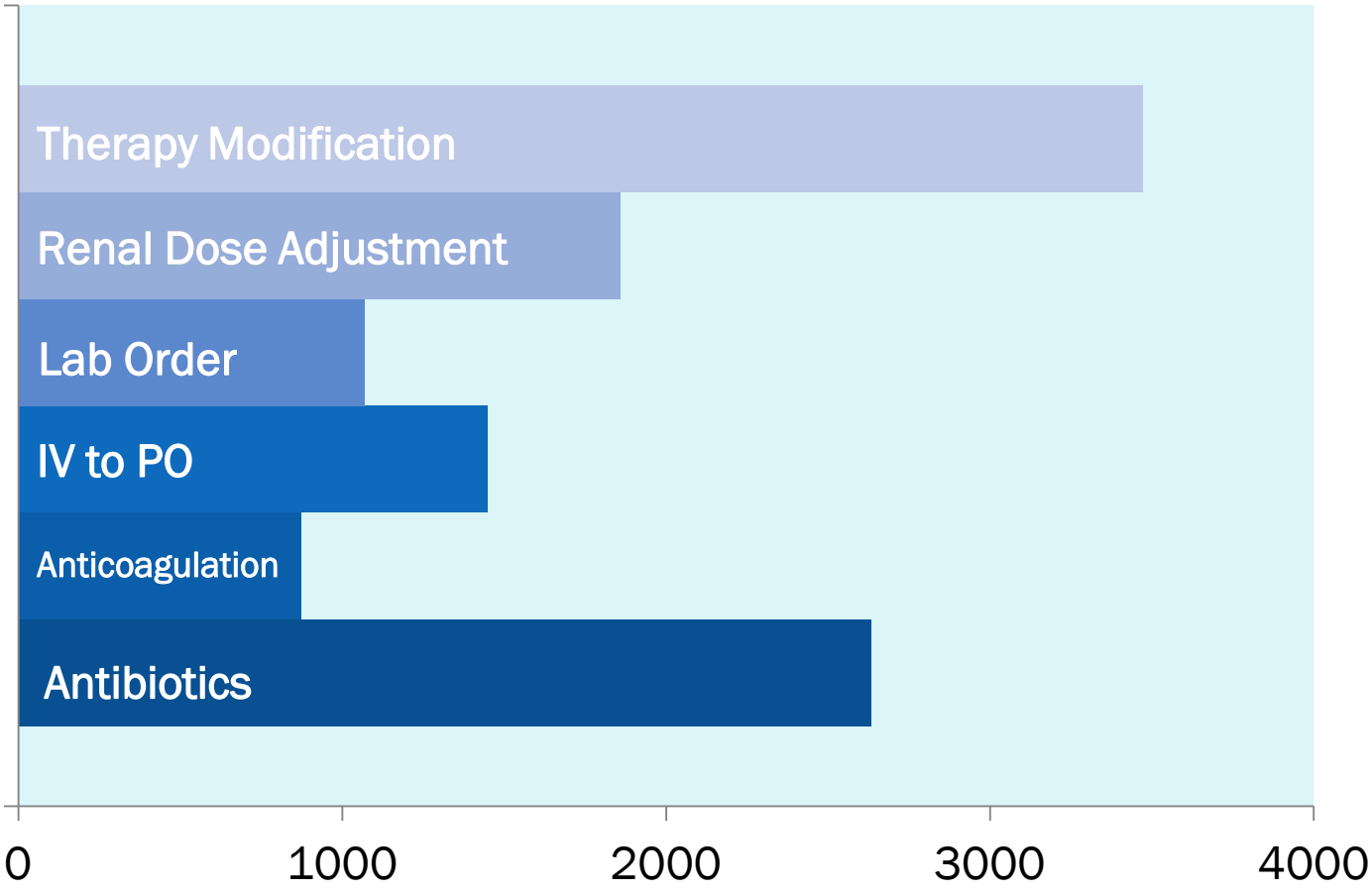
**Overall Time to Verify:** 11 minutes

96% Patient Scan Rate

**STAT Time to Verify:** 4 minutes

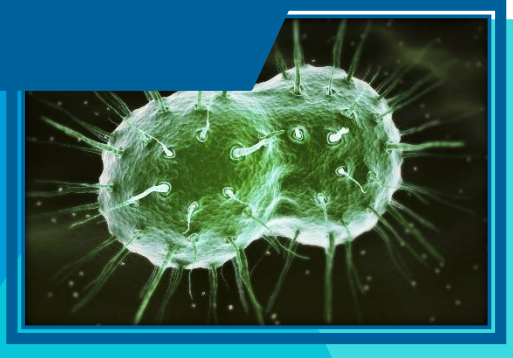
94% Medication Scan Rate

# 1.2 million doses administered




# 42,599 TOTAL INTERVENTIONS

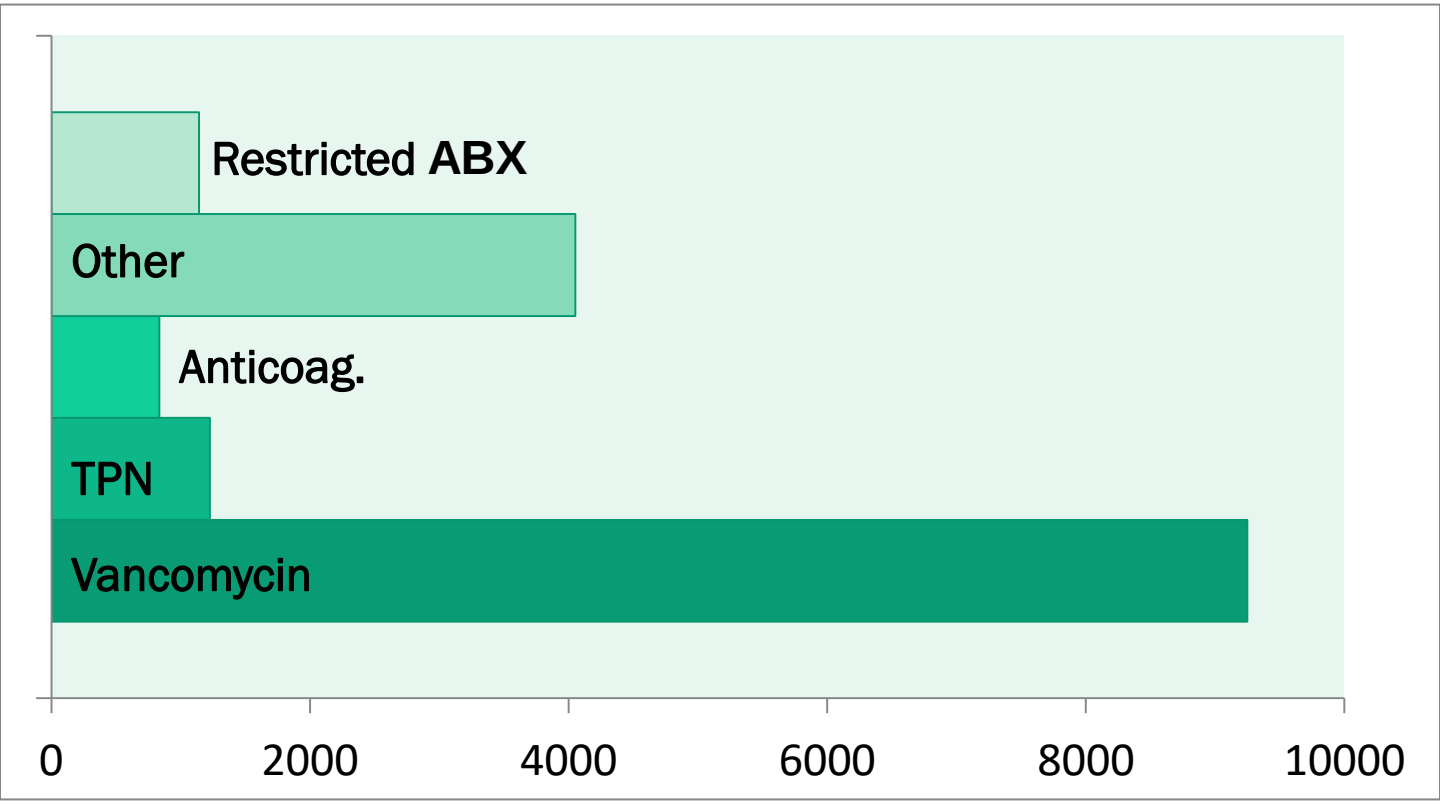
**1,780 ED Cultures Follow-Up**



**$9.2 million estimated in cost-avoidance**

***We shall improve patient outcomes through the highest pharmaceutical care standards.***

# Consults




**105 Code Blue Responses**

# Drug Information & Formulary Management

Our staff provide expertise and support for health care professionals throughout the hospital.

These services coordinate the clinical quarterback program, Princeton Baptist Medical Center Formulary, drug use policy, medication evaluations, guideline development, and drug shortages & recalls management.

These services support caregivers in taking care of patients.

**1,591 Drug Information Questions**

**114 New Drug Shortages**

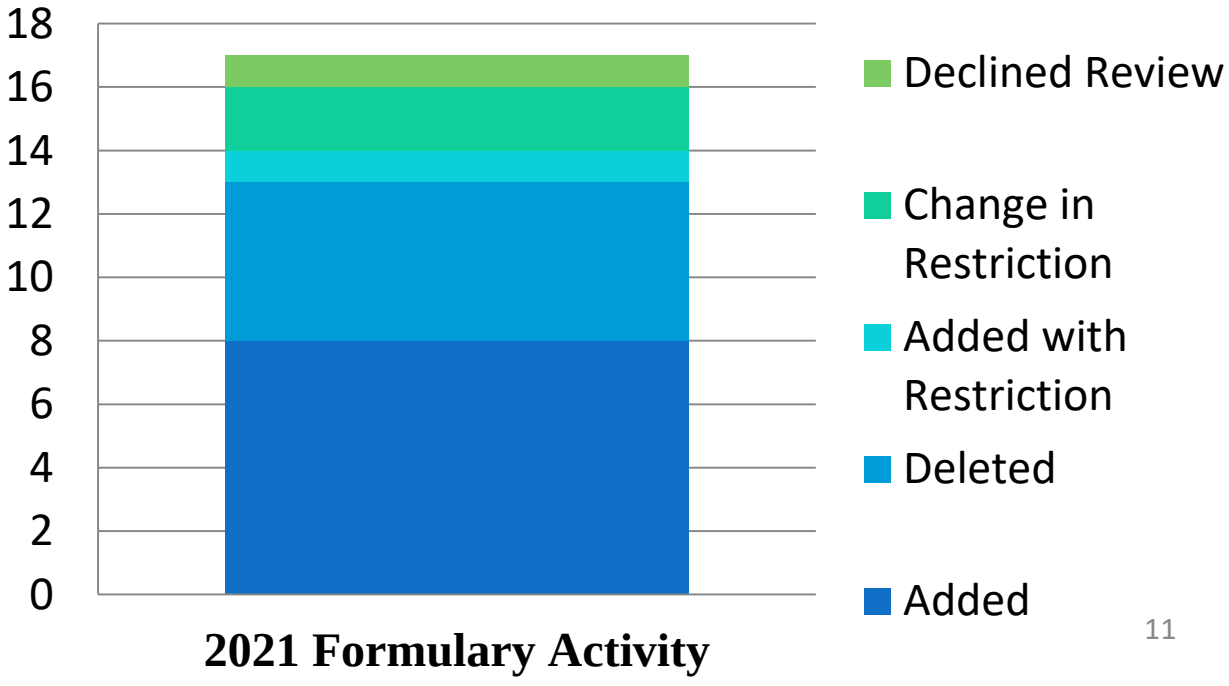
| Major Drug Shortages |
| --- |
| CNS Agents |
| Fluids & Electrolytes |
| Antimicrobials |
| Cardiovascular |
| Hormonal agents |

# Drug Information & Formulary Management

The P&T evaluates formulary requests, develops guidelines and restrictions, reviews cost and utilization issues, and develops and reviews outcomes projects and drug use evaluations.

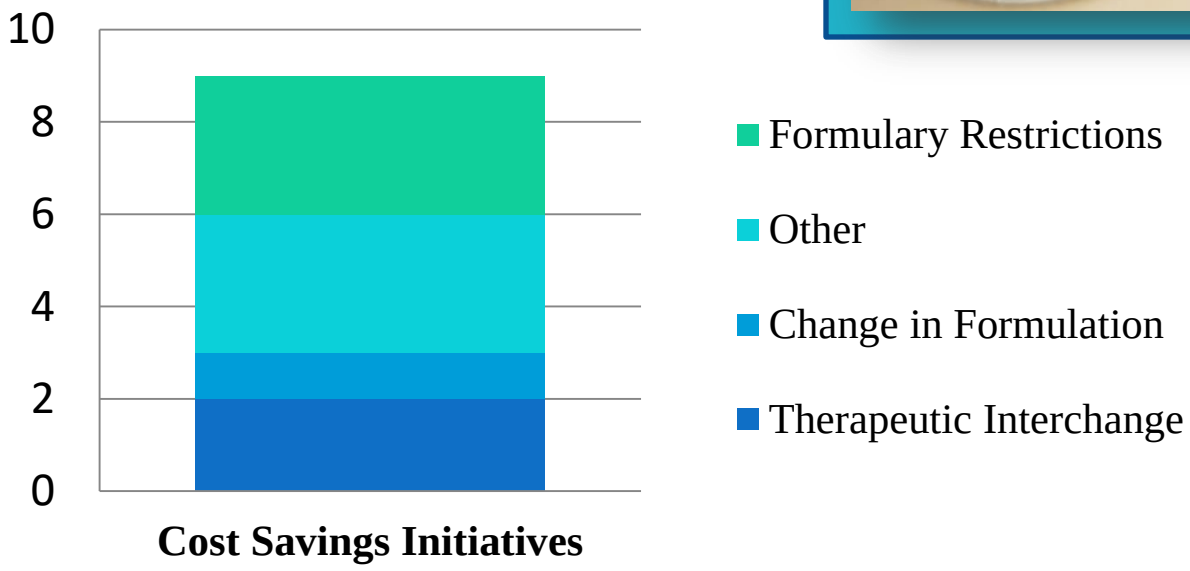
The Committee meets monthly, jointly chaired by members of the medical and pharmacy staff.

| Items Reviewed | n |
|---|---|
| Medication use evaluation | 10 |
| Policies & Procedures | 11 |
| Guidelines | 1 |



# Procurement

- **McKesson Indigent Reimbursement Program: ~$36,000 in savings**
- **Clinical and operational initiatives: $69,000+ in savings**




| | Actual |
|---|---|
| Drug Cost ($ millions) | 5.63 (2021) |
| Drug Cost PAPD | $61 |

**$1 million LESS IN drug spend than 2020**

# Medication Safety

Medication Safety coordinates a comprehensive program dedicated to assuring excellence in medication safety and quality.

Committee members facilitate continuous evaluation of the medication management system to implement strategies that reflect medication safety best practices and mitigate/eliminate actual and potential system vulnerabilities.

| Activities | n |
|---|---|
| Reported medication safety events | 588 |
| Unit Inspections | 658 |
| Adverse drug events identified, prevented, or treated | 206 |

***We shall use accountable, reliable, and transparent approaches to medication safety and just culture.***

# Antimicrobial Stewardship

***Clinical Activities***

Daily activities conducted by clinical pharmacy team members:

- Assist with empiric antimicrobial selection
- Target therapy to specific pathogens
- Optimize antimicrobial dosing
- Shorten duration of antimicrobials
- Convert intravenous antimicrobials to oral administration
- Review restricted antimicrobials

***Accomplishments***

- Publication of annual antibiogram in collaboration with laboratory
- Antibiotic cascades standardized across Brookwood Baptist Health
- Formulary drug class reviews conducted:
  - Aminoglycosides
  - Tetracyclines
  - Carbapenems
  - Tigecycline
  - Penicillins
  - Ear, eye, nose, and throat formulations

***Medication Usage Evaluations***

- Empiric dosing in acute kidney injury
- Restricted antibiotics:
  - Daptomycin/Linezolid

***COVID-19***

- Managed nasal swab results queue for ED visits
- Added baricitnib and casirivimab/imdevimab to formulary

# PHARMACY RESIDENCY PROGRAMS

The pharmacy residency programs serve as a training ground for licensed pharmacists to gain frontline clinical practice experience under the guidance of seasoned practitioners with concentrated internal medicine and critical care exposure. The programs provide ample teaching opportunities along with contributions to the pharmacy department via operations, administration, drug information, and research.

## Achievements

- **PGY2 Internal Medicine program accredited**
- **PGY1 program reaccredited**
- **Welcomed six new preceptors-in-training**
- **Implemented research training conferences**
- **Removed binary genders from residency documents**

## 2020–2021 Residents

- **Jacquie Downey**
  Princeton Baptist, *PGY2 Int. Med.*
- **Uma Patel**
  Emory Health, *Staff Pharmacist*
- **Sarah Blackwell**
  *PGY1 Program Director*
- **Taylor Tanner**
  Princeton Baptist, *Staff Pharmacist*
- **Alyssa Osmonson**
  Princeton Baptist, *CICU Specialist*

## 2021-2022 Residents

- **Quinn Hattaway**
  PGY1; Lipscomb University
- **Ben Harding**
  PGY1; Auburn University
- **Taylor Mosteller**
  PGY1; Auburn University
- **Jacquie Downey**
  PGY2 Internal Medicine; Samford University

***We shall foster a teaching environment for the next generation of healthcare providers.***

# LOCAL, STATE, & NATIONAL ORGANIZATIONS

- **Alabama Society of Health-System Pharmacists**
  - Director of Organizational Affairs – Sarah Blackwell
  - Educational Programming Committee Member– Tom Achey

- **American Society of Health-System Pharmacists**
  - Field Tester, Pharmacist Recertification program – Helen McKnight
  - Reviewer, *American Journal of Health-System Pharmacy* – Tom Achey
  - Section of Pharmacy Practice Leaders New & Emerging Leaders Advisory Group Chair – Tom Achey
  - Section of Pharmacy Practice Leaders Educational Steering Committee – Tom Achey

- **American Pharmacists Association**
  - Field Tester, Sterile Compounding Recertification program – Helen McKnight

- **American College of Clinical Pharmacy**
  - Clinical Administration PRN Education and Research Subcommittee – Tom Achey
  - Curriculum Vitae and Letter of Intent Review Service – Sarah Blackwell
  - Publications Committee – Tom Achey
  - Recognition Committee, Critical Care Practice and Research Network – Sarah Blackwell

# PUBLICATIONS

**Achey TS**, Robertson AT. Conscientious objection: a review of state pharmacy laws and regulations. *Hosp Pharm*. Jun 2021. ePub.

**McKnight H**. Pharmacy Informatics in the COVID era. Guest Editorial Column/HealthTech magazine. Apr 2021.

**McKnight H**. Building Quality into Your Sterile Compounding Program [Writer]. Pharmacy Practice News. Sep 2021.

**Stuart MK, Blackwell SB**, Holder HB, Wood EL, **Starr JA**. Efficacy and safety of nonvitamin K oral anticoagulants following cardiac valve replacement. *Southern Medical Journal*. 2021 Jan;114(1):46-50.

# POSTERS

**Downey JS, Pinner N, Starr J, Blackwell S, Germain K** .Safety and Efficacy of Dual Antiplatelet Therapy as Secondary Prevention in Non-Minor Stroke. American Society of Health-System Pharmacists Annual Meeting. Dec 2021. Bethesda, Maryland. [Virtual].

**Downey JS, Starr J, Knorr K,** Holder H. Implementation of AUC/MIC Dosing Strategies at a Community Teaching Hospital. American College of Clinical Pharmacy Virtual Poster Symposium. May 2021. Lenexa, Kansas. [Virtual].

**Hattaway QC, Blackwell SB, Osmonson AJ**. Impact of enteral analgosedation on parenteral analgosedation weaning in a community teaching hospital. American Society of Health-System Pharmacists Midyear Clinical Meeting, December 2021. Bethesda, Maryland [Virtual].

**Mosteller TD, Starr JA, Achey TS, Herndon JM**. Glucocorticoid usage in hemorrhagic stroke. ASHP Midyear Clinical Meeting; Dec 2021: Bethesda, Maryland. [Virtual]

Seele AL, **Herndon JM, Achey TS**. Evaluation of a comprehensive approach to reduce opioids in bariatric surgery. ASHP Midyear Clinical Meeting; Dec 2021: Bethesda, Maryland. [Virtual]

# PRESENTATIONS – NATIONAL

**Achey TS**. Multimodal analgesia in bariatric surgery. Pearl presentation as component of the Clinical Pearls session at the 56th ASHP Midyear Clinical Meeting; Dec 2021: Bethesda, Maryland. [Virtual]

**Downey J**, Ayyad A. Efficacy of ceftazidine-avibactam plus aztreonam in patients with bloodstream infections caused by metallo-b-lactamase-producing enterobacterales. American College of Clinical Pharmacy eJournal Club. December 2021. Lenexa, Kansas. [Virtual]

Hill JD, **Achey TS**. Providing actionable data to pharmacy staff to improve performance and outcomes. Educational session at the 56th ASHP Midyear Clinical Meeting; Dec 2021: Bethesda, Maryland. [Virtual]

**McKnight H.** Pharmacy Leaders Share Advice to Prospective Pharmacy Residents. Black Women Pharmacists Podcast. January 2021.

**McKnight H**. PharmaSalon: Opioid management in compounding pharmacy from an audit and inspection standpoint. PharmaSalon. [Facilitator and discussion leader]. March 17, 2021. [Virtual]

**McKnight H**. Women Leading During a Crisis: COVID-19 pandemic. Talk to Your Pharmacist Podcast. May 2021.

**McKnight H**. Impacts of the COVID pandemic-Current roles, responsibilities, and regulation of drug compounders [Panelist]. Compliance Pharmacy Conference. McLean, Virginia. Jun 2021

# PRESENTATIONS – NATIONAL

**McKnight H**. Serving Diverse Populations in a Global Industry [Panelist]. Compliance Pharmacy Conference. McLean, Virginia. Jun 2021

**McKnight H**. Establishing a Culture of Inspection Readiness. [Moderator]. PharmaSalon. Oct 2021. [Virtual].

**McKnight H**. Different Pharmacy Careers. [Panelist] P1 Students/Binghamton College of Pharmacy. Oct 2021.

**McKnight H**. Why COVID-19 vaccination is essential for people of color. The Public Health Pharmacist Podcast. Oct 2021.

Roberts PA, **Achey TS**. Pull that thread: How a little data enables a big change. Educational session at the 56th ASHP Midyear Clinical Meeting; Dec 2021: Bethesda, Maryland. [Virtual]

# PRESENTATIONS – REGIONAL

**Achey TS**. Good Grief! A Primer for Preceptors. Presentation to faculty and adjunct preceptors at University of Wisconsin-Madison School of Pharmacy; Mar 2021: Madison, Wisconsin. [Virtual]

**Achey TS**, Vargas L. Squeeze Water from Rocks: Operational Strategies in the Extreme. Educational session at the 69th Alabama Society of Health-System Pharmacists Annual Clinical Meeting; Nov 2021: Birmingham, Alabama. [Virtual]

**Blackwell SB**. It Begins Now: Preparing for Post Graduate Residency Training. McWhorter School of Pharmacy, Samford University. Mar 2021. Birmingham, Alabama.

**Blackwell SB**, Nelson D, Settle J. Tips from a Residency Program Director. Alabama Society of Health System Pharmacists Annual Clinical Meeting. Nov 2021. Birmingham, Alabama.

**Downey JS.** Implementation of AUC/MIC Dosing Strategies at a Community Teaching Hospital. Southeastern Residency Conference. April 2021. [Virtual]

**McKnight H**. Managing Diversity in the Workplace. Alabama Society of Health System Pharmacist Summer Meeting. Jun 2021. Pensacola, Florida. [Virtual]

**McKnight H**. Micro-aggression and People of Color. [Chapter Panelist] American College of Healthcare Executives – Birmingham. Oct 2021

**Stuart MK**. Anticoagulation in COVID-19: A Clinical Conundrum. Alabama Society of Health System Pharmacist Summer Meeting. Jun 2021. Pensacola, Florida. [Virtual]

# COMING IN 2022

**Top Priorities**:

- Integrating new automation technology (e.g., Omnicell)
- Enhancing clinical pharmacy services
- Optimizing medication delivery systems
- Evolving efficiency with pharmacy workflow

**Pharmacy Practice Focus Areas**:

- Controlled substance management
- Sterile product compounding
- Inventory optimization
- Nonsterile product compounding

We look forward to continuing our *EVOLUTION:BUILDING…*

EFFICIENCY