



AUBURN UNIVERSITY
Harrison College of Pharmacy

HARRISON COLLEGE OF PHARMACY



CONTINUING
EDUCATION

Improving Antimicrobial Stewardship Across Alabama (IASAA) Full Day Symposium

Drs. Elizabeth Covington, Spencer Durham, Danielle Kunz,
Megan Roberts, and Taylor Steuber

Saturday, November 16, 2024 at 8am – 4:30pm CT via Zoom



PROGRAM OVERVIEW

Antimicrobial resistance has become an urgent global health threat. According to the Centers for Disease Control and Prevention, more than 2.8 million antimicrobial-resistant infections occur each year in the United States alone. The major contributing factor to the development of antimicrobial resistance is the inappropriate use of antimicrobial agents. Antimicrobial stewardship is the best way to combat antimicrobial resistance through the selection of the most appropriate antibiotic for a given infection, which will result in the best clinical outcome for the patient with a minimal risk of both adverse effects and the development of antimicrobial resistance. This program will introduce the concept of antimicrobial stewardship and will describe the regulatory requirements regarding antimicrobial stewardship and will review the different classes of antimicrobial agents, with a particular focus on their spectrums of activity. Additionally, this program will describe the treatments of urinary tract infections, skin and soft tissue infections, and community-acquired pneumonia, all of which are common disease states in the inpatient and outpatient settings and are all associated with the inappropriate use of antimicrobial agents. Additionally, this program will describe the treatments of urinary tract infections, skin and soft tissue infections, and community-acquired pneumonia, all of which are common disease states in the inpatient and outpatient settings and are all associated with the inappropriate use of antimicrobial agents. There is no registration fee for this program.

Following registration, participants will have access to course instructions, updates, presentations, webinar link, program evaluation, CE certificates and credits, etc. **This program is approved for 8.0 ACPE Contact Hours, .8 CEUs.** Once credit is awarded, transcripts will be available online within 24 hours on the learner's CPE Monitor profile at <http://nabp.pharmacy/>. **This program is also approved by ABN and ACCME.**

The Office of Alumni and Professional Affairs strongly encourages each participant to check their profile online within 60 days of attendance to ensure credit has been awarded properly. ACPE will not accept CE submissions after 60 days from the live seminar date.

This program is sponsored through a grant from the Alabama Department of Public Health, Bureau of Communicable Disease Infectious Diseases and Outbreaks through a Cooperative Agreement with the Centers for Disease Control and Prevention, grant number 6 NU50CK000545-03-02, Strengthening HAI/AR (SHARP) CFDA 93.323.

TARGET AUDIENCE

This application-based program is intended for Pharmacists (ACPE), Physicians (ACCME), Physician Assistants (ACCME), Nurse Practitioners (ABN), and Nurses (ABN).

LEARNING OBJECTIVES

- Define antimicrobial stewardship, including its clinical relevance and importance
- Discuss strategies to improve inappropriate antibiotic medication use
- Review current Joint Commission Guidelines for Antibiotic Stewardship for acute care hospitals
- Discuss current guidelines for Antibiotic Stewardship issued by Centers for Medicare/Medicaid
- Identify the different classes of antimicrobial agents available and review individual agents within each class
- Describe the spectrum of activity of the antimicrobial drug classes
- Review the different types of urinary tract infections (UTIs) and identify the common pathogens associated with each infection
- Analyze the clinical practice guidelines pertaining to UTIs and describe their recommended antimicrobial treatments
- Describe the principles for treatment of UTIs in special populations, such as men, pregnant women, and older adults
- Review types of skin and soft tissue infections (SSTIs) and common causative organisms
- Formulate appropriate empiric treatment regimens for patients with SSTI presenting to the inpatient or outpatient setting
- Differentiate community acquired pneumonia from common upper respiratory tract infections
- Formulate treatment plans for a patient with community-acquired pneumonia, incorporating antimicrobial stewardship principles

ACTIVITY COMPLETION REQUIREMENTS

To complete the steps for CE credit, each attendee will be required to access and review program materials located within the online course, attend the live Zoom webinar, enter the attendance code within the course that was provided at the conclusion of the program, complete the program evaluation within the online course, and claim credit within the course. Please contact hcopce@auburn.edu if you have any questions or needs related to this online CE program.

FACULTY DISCLOSURES

Programming in with AUHCOP is in any way involved, whether as sole provider or joint-providership, shall exhibit fair content balance, providing the audience with information of multiple perspectives from which to form a professional opinion. In addition, the fair balance will assure that information provided does not discuss a commercial product. Brand names of all products included in the content may be mentioned for identification purposes only. Presenters in any continuing education offering will acknowledge and disclose any affiliation with the provider and such information will be made available to the audience. Faculty disclosures will also be included on an introductory slide during the presentation. Drs. Covington, Durham, Kunz, Roberts, and Steuber have no actual or potential conflict of interest in relation to this program.

ACCREDITATION INFORMATION

The Auburn University Harrison College of Pharmacy is accredited by the Accreditation Council for Pharmacy Education as a provider for continuing pharmacy education; credits are recognized nationwide. The Universal Activity Number for this application-based program is 0001-9999-24-039-L01-P and is intended for pharmacists.

ABN - Auburn University Harrison School of Pharmacy is a Board approved provider of continuing nursing education in Alabama by the Alabama Board of Nursing. Provider Number: ABNP1515

ACCME - Huntsville Hospital designates this live activity for a maximum of 8 *AMA PRA Category 1 Credit(s)*TM. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Medical Association of the State of Alabama through the joint providership of Huntsville Hospital and Auburn University Harrison College of Pharmacy. Huntsville Hospital is accredited by the Medical Association of the State of Alabama to provide accredited continuing education for physicians.

TECHNOLOGY REQUIREMENTS

Participants are encouraged to secure a direct connection for all webinar programming. Please arrange for access to a computer with stable internet connection and Zoom capabilities. This program will be conducted via Zoom and includes interactive components.

If you're a new participant, we have a quick start guide here: <https://aub.ie/zoomquickstart>.

PROGRAM AGENDA

8am Introduction to Antimicrobial Stewardship - Dr. Elizabeth Covington

This presentation will explore the concept of antimicrobial stewardship, emphasizing its clinical relevance and importance. Participants will be able to identify the Center for Disease Control (CDC)'s Core Elements of antimicrobial stewardship, discuss strategies to improve inappropriate antibiotic use, and review resources available to assist healthcare professionals with clinical decision-making related to antibiotics. The session will be interactive, featuring case vignettes to enhance learning and application.

9am National Regulatory Requirements for Antibiotic Stewardship in Acute Care Hospitals - Dr. Danielle Kunz

Antibiotic Stewardship is required for acute care hospitals participating in the Center for Medicaid/Medicare reimbursement programs and for those seeking/maintaining Joint Commission accreditation status. This program will provide a comprehensive review of these guidelines and provide updates regarding recent changes.

10am Bugs & Drugs: An Antimicrobial Agents Review - Dr. Spencer Durham

The cornerstone of antimicrobial stewardship is the correct use of antimicrobial agents. In order to use antimicrobial agents correctly, clinicians must be familiar with the drugs themselves, including their spectrum activity, mechanisms of action, adverse effect profile, and major drug interactions. Additionally, multiple new agents have been brought to the market in recent years, and clinicians must be aware of where these new agents fit into clinical practice. This presentation will provide a comprehensive review of current antimicrobials on the market, with a particular focus on their spectrums of activity and use in clinical practice.

12pm Break

12:30pm Treatment of Community-Acquired Pneumonia - Dr. Taylor Steuber

This presentation will review the diagnosis and recommended treatment of community acquired pneumonia for all practice settings as well as treatment considerations when selecting appropriate therapy. Furthermore, strategies to promote antimicrobial stewardship in the treatment of community acquired pneumonia will be discussed.

1:30pm Treatment of Skin and Soft Tissue Infections (SSTIs), Diabetes-related Foot Infections (DFIs) and Osteomyelitis - Dr. Megan Roberts

Skin and soft tissues infections, diabetes-related foot infections, and osteomyelitis are frequently occurring infections among patients in both the inpatient and outpatient settings. Appropriate classification of these infections and recognition of the corresponding common causative pathogen are essential to determine optimal empiric antimicrobial therapy. This presentation will review types of SSTI and osteomyelitis along with common pathogens and discuss aspects of antimicrobial therapy for treatment of SSTI and osteomyelitis, including dosing, route, monitoring parameters and duration. Key recommendations for the treatment of diabetes-related foot infections from the most recent 2023 IWGDF/IDSA guidelines will also be included to provide contemporary evidence to attendees.

3:00pm Treatment of Urinary Tract Infections - Dr. Spencer Durham

Urinary tract infections (UTIs) are one of the most common indications for receipt of antimicrobial therapy in both the community, hospital, and long-term care settings. However, inappropriate use of broad-spectrum antibiotics for the treatment of UTIs has significantly contributed to the development of antimicrobial resistance to UTI pathogens. Therefore, clinicians must understand the appropriate treatment of UTIs to not only treat the diseases, but also minimize the development of antimicrobial resistance. This program will focus on the appropriate treatment of different types of UTIs, including acute cystitis, pyelonephritis, catheter-associated UTIs, complicated UTIs, and pyelonephritis.

4:30pm Adjourn

PROGRAM FACULTY

Dr. Elizabeth Covington, Pharm.D., BCIDP is an Associate Clinical Professor in the Department of Pharmacy Practice. Originally from Birmingham, Alabama, she received a bachelor of science degree in chemistry from Furman University in 2012 and completed her doctor of pharmacy at the Harrison College of Pharmacy in 2016. Upon graduation, she went on to complete an ASHP-accredited post-graduate residency at DCH Regional Medical Center in Tuscaloosa, Alabama. Dr. Covington joined the Harrison College of Pharmacy faculty in May 2023 as an associate clinical professor. She returned to The Plains after six years as an assistant professor at the Samford University McWhorter School of Pharmacy. In her position at Auburn, she teaches within the Practice Ready Curriculum in both the didactic and experiential settings. Dr. Covington is active in several state and national pharmacy organizations, including the Alabama Society of Health-System Pharmacists, the American Association of Colleges of Pharmacy (AACP), and the American College of Clinical Pharmacy (ACCP). In 2019, she became a Board-Certified Infectious Disease Pharmacist. She was also recognized by AACP in 2022 with the AACP Women Faculty SIG Early Transformative Teaching Award. Elizabeth and her husband, Michael, reside in Auburn with their two children. In her free time, she enjoys baking, watching Auburn sports and listening to audiobooks.

Dr. Spencer Durham, Pharm.D., BCPS, BCIDP is an Associate Clinical Professor in the Department of Pharmacy Practice and also serves as the Director of Alumni & Professional Affairs with the Harrison College of Pharmacy. Originally from Arab, Alabama, he completed his pre-pharmacy coursework at Auburn University and graduated with his Doctor of Pharmacy degree from the Harrison College of Pharmacy in 2007. He went on to complete an ASHP-accredited post-graduate residency at Children's Health System in Birmingham, Alabama in 2008. After completion of his residency, he joined the staff at Sacred Heart Hospital in Pensacola, Florida as a clinical pharmacist specialist, a role he maintained for five years. In 2013, Dr. Durham joined the faculty of the Harrison College of Pharmacy, where he teaches in various courses throughout the curriculum. Additionally, Dr. Durham serves as the Director of Alumni and Professional Affairs under the Associate Dean for Clinical Affairs and Outreach. As part of this position, he works proactively with HCOP alumni and other health care professionals from throughout the state and region to foster the development of innovative practice models and to expand and enhance opportunities for continuous professional development. Dr. Durham also oversees the Office of Alumni and Professional Affairs, which is responsible for the many continuing education programs offered each year by HCOP. Dr. Durham has published more than 20 peer-reviewed articles in respected journals and several book chapters. He is an active speaker each year at national, state, and local conferences, where he educates healthcare professionals on topics related to infectious diseases and antimicrobial stewardship. Additionally, Dr. Durham is active in several state and national organizations including the Alabama Pharmacy Association (APA), the Alabama Society of Health-Systems Pharmacists (ALSHP), the American College of Clinical Pharmacy (ACCP), and the American Society of Consultant Pharmacists (ASCP).

PROGRAM FACULTY

Dr. Danielle Kunz is a graduate of the Auburn University School of Pharmacy. Following graduation, she completed an ASHP accredited Pharmacy Residency at UAB Hospital. During her 21 year career as a UAB Hospital pharmacist, she practiced in many areas including; central pharmacy, internal medicine, bone marrow transplant, hematology/oncology and infectious disease. In addition to clinical practice, she served from 2004-2012 as the Coordinator for Pharmacy Residency Programs, Student Clerkships and Program Director of the Post Graduate Pharmacy Residency Program. From 2012- January 2017, she was the clinical specialist for Infectious Disease/Antimicrobial Stewardship. In February 2017, she founded Solutions for Antimicrobial Stewardship LLC which provides support to organizations seeking to implement antimicrobial stewardship programs or those wanting to improve existing stewardship programs.

Dr. Megan Roberts, PharmD, BCPS is an Associate Clinical Professor at the Harrison College of Pharmacy. Dr. Roberts joined HCOP in July 2023. A two-time Auburn graduate, she earned a bachelor of science degree in biomedical sciences in 2014 while completing her Pharm.D. (2015). Upon graduation, she completed a PGY-1 pharmacy residency at the Medical University of South Carolina and stayed on for a PGY-2 internal medicine residency also at MUSC. At HCOP, she teaches within the Practice Ready Curriculum in both the didactic and experiential settings. She also contributes to research and scholarship focused on topics related to inpatient clinical practice, internal medicine pharmacotherapy, and pharmacy education. Her areas of specialty include internal medicine, cardiology, and nephrology. Prior to joining the faculty at HCOP, she worked for six years as an assistant professor at the Samford University McWhorter School of Pharmacy. Professionally, she is an active member serving in various roles and committees within the American Association of Colleges of Pharmacy (AACP), American College of Clinical Pharmacy (ACCP) American Society of Health-System Pharmacists (ASHP) and Alabama Society of Health-System Pharmacists (ALSHP). In 2016, she became a Board Certified Pharmacotherapy Specialist. Roberts received the New Practitioner of the Year Award from the ALSHP in 2018 and the Service Award in 2022.

Dr. Taylor Steuber graduated from the UMKC School of Pharmacy in 2014, and completed a 24-month pharmacotherapy specialty residency with Indiana University Health and Butler University College of Pharmacy and Health Sciences in Indianapolis, Indiana. After residency, he joined the faculty at Auburn University Harrison College of Pharmacy in August 2016 where he worked for 6.5 years as an associate clinical professor in the department of pharmacy practice and as the assistant director of professional programs. Dr. Steuber transitioned closer to home and joined the faculty at his alma mater, the University of Missouri - Kansas City at MU School of Pharmacy in Columbia, Missouri in January 2023. He is currently a clinical associate professor in the division of pharmacy practice and administration and practices at University Hospital with the University of Missouri as an internal medicine clinical pharmacy specialist where he teaches and precepts students and residents. Dr. Steuber is a board certified specialist in pharmacotherapy since 2015. He is an active member of the American College of Clinical Pharmacy (ACCP) and the American Association of Colleges of Pharmacy (AACP). He has authored more than 30 peer-reviewed publications, 50 meeting posters, and has received funding through the Center for Evidence-based Policy with Oregon Health and Science University as well as the Alabama Department of Public Health. His practice and scholarship interests include infectious diseases, antimicrobial stewardship, and the scholarship of teaching and learning.

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Members of the Post-Graduate Education Advisory Committee have completed a conflict-of-interest disclosure form and have no actual or potential conflicts of interest in relation to this program.