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Education:

Doctor of Pharmacy	University of Pittsburgh School of Pharmacy. Pittsburgh PA,2006
B.S. Chemistry	Gannon University, Erie, PA, 2002

Licensure and Certification:

Registered Pharmacist, Pennsylvania, RP441221	2006 - Present
Registered Pharmacist, Michigan, 5302038100	2007 – Present
Board Certified Infectious Diseases Pharmacist	2018 – Present
Board Certified Pharmacotherapy Specialist (BCPS)	2007 – 2021
• Added qualifications in Infectious Diseases	2009 – 2021

Pharmacy Experience:

Clinical Pharmacist, Infectious Diseases – Michigan Medicine	2019 – Present
• Ann Arbor, Michigan	
Clinical Pharmacist, Infectious Diseases - Sinai-Grace Hospital	2008 – 2019
• Detroit, Michigan	
PGY – 2 Infectious Diseases Resident	2007 – 2008
• University of Michigan Health Systems, Ann Arbor, Michigan	
PGY – 1 Pharmacy Practice Resident	2006 – 2007
• University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania	

Faculty Appointments:

Clinical Professor	2019 – Present
• University of Michigan College of Pharmacy, Ann Arbor, Michigan	
Clinical Assistant Professor of Medicine	2009 – 2019
• Wayne State University School of Medicine, Detroit, Michigan	
Adjunct Clinical Assistant Professor	2009 – 2019
• University of Michigan College of Pharmacy, Ann Arbor, MI	
Associate Clinical Professor	2009 – 2019

- University of Pittsburgh School of Pharmacy, Pittsburgh, Pennsylvania

Adjunct Clinical Instructor

2007 – 2009

- University of Michigan College of Pharmacy, Ann Arbor, MI

Publications:

146. Shah S, Kline EG, Haidar G, Squires KM, **Pogue JM**, McCreary EK, Ludwig J, Clarke LG, Stellfox M, Van Tyne D, Shields RK. Rates of resistance to ceftazidime-avibactam and ceftolozane-tazobactam among patients treated for multidrug-resistant *Pseudomonas aeruginosa* bacteremia or pneumonia. *Clin Infect Dis*. 2024 Jun 21;ciae332. doi: 10.1093/cid/ciae332. Epub ahead of print. PMID: 38902935.

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140. **Pogue JM**, Aitken SL. Nut Cracked? Does the ACORN Trial End the Debate Surrounding Vancomycin and Piperacillin-Tazobactam Combination Therapy and Increased Risk for Acute Kidney Injury? *Open Forum Infect Dis*. 2023 Dec 18;11(1):ofad645. doi: 10.1093/ofid/ofad645. PMID: 38239847; PMCID: PMC10795513.

139. Yassin A, Huralska M, **Pogue JM**, Dixit D, Sawyer RG, Kaye KS. State of the Management of Infections Caused by Multidrug-Resistant Gram-Negative Organisms. *Clin Infect Dis*. 2023 Nov 11;77(9):e46-e56. doi: 10.1093/cid/ciad499. PMID: 37738671.

138. Albin OR, **Pogue JM**, Wunderink RG, Kaye KS. Which trial do we need? Combination antimicrobial therapy for hospital-acquired bacterial pneumonia caused by *Pseudomonas aeruginosa*. *Clin Microbiol Infect*. 2024 Feb;30(2):162-164. doi: 10.1016/j.cmi.2023.07.007. Epub 2023 Jul 8. PMID: 37429434.

137. Wangchinda W, **Pogue JM**. Case Commentary: When Voldemort Meets Sauron: Treatment Considerations for Emerging Dual-Carbapenemase-Producing Extensively Drug-Resistant *Pseudomonas aeruginosa*. *Antimicrob Agents Chemother*. 2023 Jul 18;67(7):e0047523. doi: 10.1128/aac.00475-23.

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106. Henig O, **Pogue JM**, Martin E, Hayat U, Ja'ara M, Kilgore PE, Cha R, Dhar S, Kaye KS. The Impact of Multidrug-Resistant Organisms on Outcomes in Patients With Diabetic Foot Infections. *Open Forum Infect Dis*. 2020 May 6;7(5):ofaa161.

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104. Heil EL, Aitken SL, Nix DE, Drew R, Rose WE, Davis SL, Justo JA, Fish DN, **Pogue JM**; Society of Infectious Diseases Pharmacists. Recommended Revisions to the National SEP-1 Sepsis Quality Measure: A commentary by the Society of Infectious Diseases Pharmacists on the Infectious Diseases Society of America Position Paper. *Pharmacotherapy*. 2020 Apr;40(4):368- 371.
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1. **Pogue JM**, Paterson DL, Pasculle AW, Potoski BA. Determination of risk factors associated with isolation of linezolid-resistant strains of vancomycin-resistant enterococcus (VRE). *Infect Control Hosp Epidemiol*. 2007; 28(12) 1382-88.

Grant Support:

Ongoing:

Co-Principal Investigator (with Ryan Shields, PharmD). Ceftazidime-Avibactam versus Meropenem-Vaborbactam for the Treatment of Bloodstream Infections and/or Pneumonia due to Carbapenem-resistant Enterobacterales (CAMEL). Melinta Pharmaceuticals. 2024 – 2026.

Co-Principal Investigator (with Ryan Shields, PharmD). Cefiderocol treatment Versus ceftolozane/tazobactam for the treatment of pneumonia and/or bloodstream Infections due to Multidrug-Resistant *Pseudomonas aeruginosa* (CONVINCE). Shionogi. 2024 – 2026.

Co-Principal Investigator (with Ryan Shields, PharmD). Optimizing escalation: Ceftolozane/tazobactam versus treatment with traditional anti-pseudomonal β -lactams for pneumonia or bloodstream infections due to MDR *Pseudomonas aeruginosa* (STEWARDS). Merck Pharmaceuticals. 2023 – 2025.

Co-Principal Investigator (with Ryan Shields, PharmD). Effectiveness of Imipenem-Relebactam for Multi-Drug Resistant *Pseudomonas aeruginosa* Pneumonia and Bloodstream Infections in the United States. Merck Pharmaceuticals. 2023 – 2024.

Co-Investigator (PI: Abram Wagner). Trusted Faces, Familiar Places. Center for Global Health Equity, University of Michigan. 2023 – 2025.

Co-Investigator (PI: Stephanie Taylor). Diagnostic Safety and Quality in Sepsis (DISQOS). Agency for Healthcare Research and Quality. 2023 – 2028.

Completed:

Co-Principal Investigator (with Ryan Shields, PharmD). A multicenter, observational study to compare the effectiveness of Ceftazidime-Avibactam versus Ceftolozane-Tazobactam for multidrug-resistant *Pseudomonas aeruginosa* infections in the United States (CACTUS). Merck Pharmaceuticals. 2022 – 2024.

Principal investigator, Clinical Pharmacy Coordinator. Principal Investigators Keith Kaye, MD and Jian Li, PhD. Optimizing clinical use of Polymyxin B: Teaching an Old Drug to Treat Superbugs. NIAID. 2021 – 2022.

Co-investigator, Clinical Pharmacy Coordinator. Principal Investigators Keith Kaye, MD and Jian Li, PhD. Optimizing clinical use of Polymyxin B: Teaching an Old Drug to Treat Superbugs. NIAID. 2015 – 2021.

Co-investigator, Clinical Pharmacy Coordinator. Principle investigator Keith Kaye, MD. Randomized Controlled Trial for the Treatment of Extensively Drug-Resistant Gram-negative Bacilli. National Institute of Allergy and Infectious Diseases (NIAID). DMID 10-0065. 2012 – 2021.

Consultant and co-investigator. Principle Investigator Krishna Rao, MD. A Comparison of Vancomycin and Fidaxomicin for the Treatment of *C. difficile* Associated Diarrhea in Patients Receiving Concomitant Antibiotics. Merck Pharmaceuticals.

Co-Principle Investigator (with Federico Perez, MD). A Real-World Comparison of Ceftolozane/Tazobactam versus Polymyxin/Aminoglycoside Based Regimens for the Treatment of MDR/XDR *P. aeruginosa*. Merck Pharmaceuticals. 2017-2018

Selected National and International Presentations:

April 2024. American Burn Association Annual Meeting. Chicago, IL. **Difficult to Treat Resistance (DTR) *P. aeruginosa* and the role of novel beta-lactams.**

March 2024. Top 5 Infectious Diseases International Symposium. Venice, Italy. **Combination Therapy for Carbapenem-Resistant Enterobacterales (CRE).**

November 2023. Infectious Diseases Society of New Jersey and the Northern and Southern New Jersey Chapters of the Association for Professionals in Infection Control and Epidemiology Annual Meeting. Monroe township, NJ. **Antibiotic Stewardship Strategies in the Era of Increasing Antimicrobial Resistance.**

July 2023. Clinical Infectious Diseases Society of India Annual Meeting (CIDSCON). Chennai, India (presented virtually). **Antimicrobial Dosing Considerations in Critically Ill Patients.**

June 2023. American Society for Microbiology (ASM) Microbe Annual Meeting. Houston, TX. **Rising antibiotic resistance in the community and strategies required to control infection.**

June 2023. Illinois Summit on Antimicrobial Stewardship. Bloomington, IL. **Top Antimicrobial Stewardship Papers of 2022-2023.**

June 2023. South African Society of Clinical Pharmacy (SASOCP) Annual Meeting. Muldersdrift, South Africa. **Multi-Drug Resistant Gram-Negative Pathogens in South Africa: Problems and Solutions.**

June 2023. South African Society of Clinical Pharmacy (SASOCP) Annual Meeting. Muldersdrift, South Africa. **The role of the clinical pharmacist in pushing antimicrobial stewardship forward.**

May 2023. Making a Difference in Infectious Diseases Pharmacotherapy Annual Meeting. Orlando, FL. **Hot Topics: What Did You Miss in Infectious Diseases 2022-2023.** Presented with Erin McCreary, Pharm.D.

May 2023. Making a Difference in Infectious Diseases Pharmacotherapy Annual Meeting. Orlando, FL. **Different Organizations, Different Breakpoints: Making Sense of Recent Updates to Susceptibility Breakpoints from CLSI, EUCAST, and USCAST.**

December 2022. American Society of Health-Systems Pharmacists Annual Midyear Meeting. Las Vegas, NV. **Is there a role for combination therapy in the treatment of infections due to Gram-negative bacilli?**

October 2022. American College of Clinical Pharmacists Global Conference on Clinical Pharmacy. San Francisco, CA. **Management of difficult to treat bacterial pathogens: a focus on new treatment options.**

October 2022. ID week 2022. Washington D.C. **Using antibiograms to decrease time to appropriate therapy: We can do better.**

May 2022. Making a Difference in Infectious Diseases Pharmacotherapy Annual Meeting. Orlando, FL. **Oral Carbapenems are Coming: Are You Excited or Anxious?** Pro/con debate with Katie Barber, PharmD.

May 2022. Making a Difference in Infectious Diseases Pharmacotherapy Annual Meeting. Orlando, FL.
Treatment of Challenging Gram-Negative Infections.

September 2021. ID week 2021 (virtual). **Antimicrobial resistance (AMR) in community-acquired uncomplicated urinary tract infection: does it exist? Does it matter?**

June 2021. ASM Microbe 2021 (Virtual). **Stewardship Strategies for Utilizing Rapid Diagnostic Tests to Optimize the Management of Gram-Negative Bloodstream Infections**

May 2021. Making a Difference in Infectious Diseases Pharmacotherapy Annual Meeting (Virtual).
Conceptualization in Treating Infectious Diseases: A Framework to Achieve Optimal Outcomes

January 2021. 4th Annual Texas Medical Center Antimicrobial Resistance and Stewardship Conference (Virtual). **(Re)focusing Antimicrobial Stewardship Efforts on Improving Patient Outcomes.**

December 2020. American Society of Health-Systems Pharmacists Annual Midyear Meeting (Virtual).
Vancomycin + Piperacillin Tazobactam: Does It Kill Your Kidneys? Pro/Con Debate with Marc Scheetz, PharmD.

October 2020. ID week 2020 (virtual). **Top Antimicrobial Stewardship Papers of 2020.**

October 2020. World Antimicrobial Resistance (Virtual) Congress. **Role of Pharmacists in the management of new agents: supporting appropriate use and patient access to new agents.**

October 2020. MJH Life Sciences™ Covid-19 Coalition Webinar Series. **Navigating the COVID-19 Treatment Landscape: Clinical Controversies Explained.** Panel discussion with Susan Davis, PharmD and Jason Gallagher, PharmD.

May 2020. Royal Pharmaceutical Society and United Kingdom Clinical Pharmacy Association Webinar.
Clinical Pharmacy, Antimicrobial Stewardship, and Covid-19. Panel discussion with Erin McCreary, PharmD, Jacqui Sneddon, BSc, MSc, PhD, and Mark Gilchrist MPharm, MSc

November 2019. World Antimicrobial Resistance Congress. Washington DC. **Keynote address: 360 of hospital purchasing and antibiotic use – understanding price-based vs stewardship-based purchasing decisions for new antibiotics & diagnostic.** Panel discussion with Dr. Tom File, MD.

July 2019. Infectious Diseases Association of California Spring Meeting. Oakland. California. **How to Identify Targets, Choose the Correct Metrics to Measure, and Demonstrate Efficacy of Interventions.**

July 2019. Infectious Diseases Association of California Spring Meeting. Oakland. California. **Dose optimization as an antimicrobial stewardship strategy.**

May 2019. 10th Annual International Antimicrobial Stewardship Conference sponsored by the Pediatric Infectious Diseases Society and the Society of Infectious Diseases Pharmacists. St. Louis, Missouri. **New and emerging therapies for multi-drug (MDR) and extensively drug resistant (XDR) Gram-negative pathogens.**

March 2019. 3rd Annual Three Rivers Antimicrobial Stewardship Symposium. Pittsburgh, PA. **Dose optimization as an antimicrobial stewardship strategy.**

March 2019. 3rd Annual Three Rivers Antimicrobial Stewardship Symposium. Pittsburgh, PA. **A steward's guide to Verigene optimization.**

November 2018. Infectious Diseases Association of California Spring Meeting. Grove City, California. **How to Identify Targets, Choose the Correct Metrics to Measure, and Demonstrate Efficacy of Interventions.**

November 2018. Infectious Diseases Association of California Spring Meeting. Grove City, California. **Dose optimization as an antimicrobial stewardship strategy.**

November 2018. Society of Infectious Diseases Pharmacists Education Center (SIDPEC) Webinar Series. **Vancomycin: From Trough to AUC.**

October 2018. American College of Clinical Pharmacists Global Conference on Clinical Pharmacy. Seattle, WA. **Highlights from the Polymyxin Guidelines Part one: Agent selection, dosing recommendations, and strategies to decrease toxicity**

September 2018. United States Committee on Antimicrobial Susceptibility Testing (USCAST) Annual Meeting. Baltimore, MD. **Antimicrobial Stewardship Challenges Raised by Suboptimal Breakpoints.**

July 2018. 1st Annual Alabama Infectious Diseases Society (ALIDS) Annual Meeting. Keynote Lecture. **Dose Optimization and an Antimicrobial Stewardship Strategy.**

June 2018. 6th Congreso Centroamericano y del Caribe de Infectología. San Jose, Costa Rica. **Know Thy Enemy: Strategies to optimize time to effective therapy.**

May 2018. 21st Annual Making a Difference in Infectious Diseases Pharmacotherapy Annual Meeting; Orlando, FL. **Should Extended Infusion of Beta-Lactams Be the Standard of Care in Hospitals?**

May 2018. 21st Annual Making a Difference in Infectious Diseases Pharmacotherapy Annual Meeting; Orlando, FL. **AUC's: The New TDM.**

December 2017. Nationwide Antibiotic Stewardship in Hospitals Workshop, Tel Aviv, Israel. **Dosing Considerations for Special Populations.**

December 2017. Nationwide Antibiotic Stewardship in Hospitals Workshop, Tel Aviv, Israel. **Designing, Implementing, and Measuring Stewardship Interventions: Guidelines and Pathways.**

November 2017. National Congress of Hospital Pharmacists –10^a SEMANA APFH, Estonia, Portugal. **Infections due to Multi-drug Resistant Gram-Negative Pathogens: A Challenge and an Opportunity.**

November 2017. National Congress of Hospital Pharmacists –10^a SEMANA APFH, Estonia, Portugal. **Identifying Stewardship Targets and Measuring Interventions: A Playbook for Clinical Pharmacists.**

October 2017. United States Committee on Antimicrobial Susceptibility Testing (USCAST) Annual Meeting. Baltimore, MD. **Polymyxin (colistin and polymyxin B) breakpoints: Can we get there yet?**

October 2017. American College of Clinical Pharmacists Annual Meeting, Phoenix, AZ. **Real or not real? Vancomycin, Piperacillin/tazobactam, and acute kidney injury (AKI).**

October 2017. American College of Clinical Pharmacists Annual Meeting, Phoenix, AZ. **New and emerging treatment options for multi-drug (MDR) and extensively drug resistant (XDR) Gram-negative pathogens.**

June 2017. ASM Microbe Annual Meeting. New Orleans, LA. **Treatment of infections due to carbapenem-resistant Gram-negative pathogens: Optimal management strategies.**

March 2017. European Association of Hospital Pharmacists Annual Meeting, Cannes, France. **New therapeutic options for the treatment of resistant Gram-negative organisms: A primer.**

December 2016. ASHP Midyear Annual Meeting. **Antimicrobial Stewardship and TJC/CMS: How Did We Get Here?**

October 2016. ID Week. New Orleans, LA. **Which is it? The Great Polymyxin Debate.**

October 2016. Best Practices for Antimicrobial Stewardship Programs workshop at ID week. New Orleans, LA. **When should I recommend extended infusion beta lactams?**

October 2016. American College of Clinical Pharmacy (ACCP) annual meeting, Hollywood, FL. **Clinical controversies in the management of infections due to multidrug-resistant Gram-negative bacilli.**

September 2016. Research symposium at the Institute of Antibiotics, Huashan Hospital, Shanghai, China. Keynote Lecture: **Developing your clinical research path: One man's journey from the USA.**

June 2016. ASM Microbe Annual Meeting. Boston, MA. **Treatment Options for Problematic Gram-negative Pathogens.**

May 2016. 19th Annual Making a Difference in Infectious Diseases Pharmacotherapy Annual Meeting. Orlando, FL. **Polymyxin B vs Colistin: One of These Things is Not Like the Other!**

May 2016. 19th Annual Making a Difference in Infectious Diseases Pharmacotherapy Annual Meeting. Orlando, FL. **Current Treatment Options for Troublesome Gram-negative Infections**

February 2016. Society of Critical Care Medicine Annual Meeting. Orlando, FL. **New and emerging treatment options for Gram-negative bacilli.**

January 2015. Society of Critical Care Medicine Annual Meeting, Phoenix, AZ. **Treatment options for *Acinetobacter baumannii*.**

October 2014. American College of Clinical Pharmacy annual meeting, Austin, TX. **Updates and challenges in managing drug-resistant Gram-negative pathogens.**

October 2014. ID Week. Philadelphia, PA. **Utilizing the EMR to Enhance Stewardship Efforts.**

May 2014. 17th Annual Making a Difference in Infectious Diseases Pharmacotherapy Annual Meeting. Orlando, FL. **An Update on Polymyxin Use.**

April 2014. 24th European Congress of Clinical Microbiology and Infectious Diseases. Barcelona, Spain. **Colistin-associated nephrotoxicity: The impact of definition.**

December 2013. American Society of Health-Systems Pharmacists Annual Midyear Meeting. Orlando, FL. **What's the latest on carbapenem-resistant enterobacteriaceae.**

June 2013. American Society of Health-Systems Pharmacists Summer Meeting. Minneapolis, MN. **Antibiotic sensitivity reactions: clinical implications and management.**

May 2013. 16th Annual Making a Difference in Infectious Diseases Pharmacotherapy Annual Meeting. Orlando, FL. **Practical Pharmacokinetics and Pharmacodynamics.**

May 2013. 1st International Conference on the Polymyxins. Prato, Italy. **Incidence of and risk factors for colistin and polymyxin B nephrotoxicity in the modern era.**

December 2012. American Society of Health-Systems Pharmacists Annual Midyear Meeting. Las Vegas, NV. **Are carbapenems always the drug of choice for extended spectrum beta-lactamase (ESBL) producers.**

September 2012. Society of Infectious Diseases Pharmacists Annual Meeting. San Francisco, CA. **Combating Gram-negative Resistance.**

April 2012. 22nd European Congress of Clinical Microbiology and Infectious Diseases. London, United Kingdom. **The effect of automated alerts on time to appropriate therapy for Gram-negative bacteremia.**

December 2006. American Society of Health-Systems Pharmacists Annual Midyear Meeting. Anaheim, CA. **So, your patient has a “sulfa allergy ...”**

Selected Local and Regional Presentations:

October 2023. Trinity Health Ann Arbor Infectious Diseases Grand Rounds. Ann Arbor, MI. **The latest on CP-CRE in Michigan: Epidemiology and Management**

September 2022. Ohio State University College of Pharmacy. **Pushing Infectious Diseases Pharmacotherapy Forward**

February 2022. Michigan Pharmacists Association Annual Meeting. Detroit, MI. **The latest on the prevention and treatment of COVID-19.**

November 2021. Infectious Diseases Grand Rounds, Rutgers University (Virtual). **B-lactam resistance in P. aeruginosa and the role of the novel agents.**

September 2021. University of Michigan Library Staff. **COVID-19 Vaccine Q and A.**

June 2021. Infectious Diseases Grand Rounds, Michigan Medicine. **B-lactam resistance in P. aeruginosa and the role of the novel agents.**

March 2021. Great Lakes Pharmacy Conference (Virtual). **Antimicrobial Resistance and the ID Pharmacist.**

March 2021. Great Lakes Pharmacy Conference (Virtual). **COVID-19 Therapeutics.**

February 2021. Southeastern Michigan Society of Health System Pharmacists. **COVID-19 Q and A.** Panelist with Susan Davis, PharmD.

September 2020. Michigan Pharmacists Association (virtual) Town Hall. **COVID-19 Lessons Learned.** Panel discussion with Scott Kollmeyer, PharmD.

January 2019. Detroit Medical Center Pharmacy Grand Rounds. Detroit, MI. **Updates from the Antimicrobial Subcommittee.**

January 2018. Detroit Medical Center Pharmacy Grand Rounds. Detroit, MI. **Updates from the Antimicrobial Subcommittee.**

October 2017. 5th Annual Update in Infectious Diseases, Wayne State University School of Medicine, Detroit, MI. **Updates in the Prevention and Management of Seasonal Influenza.**

May 2017. Detroit Medical Center Pharmacy Grand Rounds. Detroit, MI. **Treatment options for Multi-drug (MDR) and Extensively drug resistant (XDR) Gram-negative pathogens: A case-based approach.**

February 2017. The Detroit Medical Center’s annual infectious diseases and critical care symposium. Dearborn, MI. **Antimicrobial Stewardship opportunities in commonly encountered infectious diseases.**

December 2015. Tenet Healthcare System Pharmacy Webinar Series. **Antimicrobial Stewardship and the clinical pharmacist: A case-based review.**

July 2015. Wayne State University Annual Update in Internal Medicine, Bay Harbor, MI. **What's new and what's in the pipeline.**

July 2015. Wayne State University Annual Update in Internal Medicine, Bay Harbor, MI. **Prevention and treatment of Seasonal Influenza.**

July 2015. Wayne State University Annual Update in Internal Medicine, Bay Harbor, MI. **We Can Do Better! Antimicrobial Stewardship in Commonly Encountered Infectious Diseases.**

November 2014. Michigan Society of Health System Pharmacists annual meeting, Grand Rapids, MI. **Prevention and treatment of Seasonal Influenza.**

September 2014. Wayne State University's annual "Update in Infectious Diseases", Detroit, MI. **We Can Do Better! Antimicrobial Stewardship in Commonly Encountered Infectious Diseases.**

November 2013. Midwestern University College of Pharmacy annual Clinical Update in Infectious Diseases conference, Chicago, IL. Keynote Lecture: **Carbapenem-resistant Gram- negative bacilli: The past, The present, and The Future.**

September 2012. Fall Meeting of the Southeastern Michigan Society of Health-System Pharmacists (SMSHP). Warren, MI. **Vancomycin versus linezolid for the treatment of MRSA pneumonia: what does the evidence tell us?**

May 2012. Detroit Medical Center Pharmacy Grand Rounds. Detroit, MI. **Clinical controversies in infectious diseases pharmacotherapy: Does the recent evidence change the recommendations?**

November 2011. Michigan Society of Health-System Pharmacists Annual Meeting. Novi, MI. **Colistin dosing: Do we have a clue what we are doing yet?**

January 2011. Detroit Medical Center's 15th annual infectious diseases and critical care symposium. Dearborn, MI. **Revisiting old antibiotics in the era of multi-drug resistance.**

January 2011. Detroit Medical Center Pharmacy Grand Rounds. Detroit, MI. **Criteria Monitored Drugs in the DMC: An update.**

May 2010. Sinai-Grace Hospital, Private Physicians LLC (PLLC). Detroit, MI. **The current state and direction of antimicrobial stewardship at Sinai-Grace Hospital.**

November 2009. Wayne State University 5th Annual Fall CE Symposium: Emerging Trends in the Treatment of Infectious Diseases, Detroit, MI. **Getting started: Selecting the right targets for intervention.**

January 2008. Pharmacy Grand Rounds. University of Michigan Health Systems. Ann Arbor, MI. **The role of antibiotic prophylaxis in necrotizing pancreatitis.**

November 2007. Pediatric Infectious Diseases Grand Rounds. University of Michigan Health Systems. Ann Arbor, MI. **Upcoming antibiotics: coming soon to a pharmacy near you.**

Book Chapters:

Pogue JM, McCreary EK, Justo JA. Coronavirus disease 2019 (COVID-19). In *Pharmacotherapy: A Pathophysiologic Approach*, 12e. Joseph T. DiPiro, Gary C. Yee, L. Michael Posey, Stuart T. Haines, Thomas D. Nolin, Vicki Ellingrod.

Pogue, JM Scheetz, M. (2018). What Every Steward Should Know About Pharmacokinetics and Pharmacodynamics. In T. Barlam, M. Neuhauser, P. Tamma, & K. Trivedi (Eds.), *Practical Implementation of an Antibiotic Stewardship Program* (pp. 155-174). Cambridge: Cambridge University Press.

Kaye KS, **Pogue JM**, Kaye D. "Polymyxins (polymyxin b and colistin)." In *Principles and Practice of Infectious Diseases*, 9th edition, Gerald L. Mandell, John E. Bennett and Raphael Dolin editors, Churchill Livingstone.

Pogue JM, Dudley MN, Eranki A, Kaye KS. "Tetracyclines and Chloramphenicol" In *Infectious Diseases*, 4th Edition, Jonathan Cohen, William G Powederly, Steven M. Opal.

Pogue JM Tam VH. "Toxicities in Patients." In *Polymyxin Antibiotics: From Laboratory Bench to Bedside*. Jian Li, Roger L. Nation, Keith Kaye.

Pogue JM, Ortwine JK, Kaye KS. Optimal use of Gram-negative antibiotics in the real-world: providing effective therapy while minimizing resistance. In *Antibiotic Stewardship: Principles and Practice*.

Abstracts:

139. Shields RK, Abbo LM, Ackley R, Aitken SL, Albrecht B, Babiker A, Cifuentes R, Claeys KC, DeSear K, Gallagher JG, Gregory E, Heil EL, Hickey C, Klatt M, Kline EG, Kubat RC, Kufel WD, Lee JH, Lim A, Lingg T, MacDougall C, Mathers A, McCreary EK, Moore WJ, Olson S, Oxer J, Pearson J, Pham C, Polk C, Satlin MJ, Satola SW, Shah S, Solanki YB, Tamma PD, Vega A, Venugopalan V, Veve M, Wangchinda W, Witt LS, Wu J, **Pogue JM**. Efficacy of Ceftazidime-Avibactam versus Ceftolozane-Tazobactam for multidrug-resistant *Pseudomonas aeruginosa* infections in the United States (CACTUS) among immunocompromised patients. 34th European Congress of Clinical Microbiology and Infectious Diseases. 27 - 30 April 2024, Barcelona, Spain

138. Shields RK, Abbo LM, Ackley R, Aitken SL, Albrecht B, Babiker A, Cifuentes R, Claeys KC, DeSear K, Gallagher JG, Gregory E, Heil EL, Hickey C, Klatt M, Kline EG, Kubat RC, Kufel WD, Lee JH, Lim A, Lingg T, MacDougall C, Mathers A, McCreary EK, Moore WJ, Olson S, Oxer J, Pearson J, Pham C, Polk C, Satlin MJ, Satola SW, Shah S, Solanki YB, Tamma PD, Vega A, Venugopalan V, Veve M, Wangchinda W, Witt LS, Wu J, **Pogue JM**. Time to clinical response among patients treated with Ceftazidime-Avibactam versus Ceftolozane-Tazobactam for multidrug-resistant *Pseudomonas aeruginosa* infections in the United States (CACTUS). 34th European Congress of Clinical Microbiology and Infectious Diseases. 27 - 30 April 2024, Barcelona, Spain [Platform presentation].

137. Lavoie T, Daffinee K, **Pogue JM**, Achour B, LaPlante K. Humanized serum concentrations of meropenem, meropenem-vaborbactam, and ceftazidime-avibactam against carbapenem-resistant *Enterobacter cloacae*. 34th European Congress of Clinical Microbiology and Infectious Diseases. 27 - 30 April 2024, Barcelona, Spain

136. Huralaska M, **Pogue JM**, Sheikh H, Rybak MJ, Ghazaryan V, Kaye KS. Colistin Plus Meropenem: The Impact of Synergy on Outcomes in the OVERCOME Trial. 34th European Congress of Clinical Microbiology and Infectious Diseases. 27 - 30 April 2024, Barcelona, Spain

135. **Pogue JM**, Rybak MJ, Narayanan N, Ghazyaran V, Kaye KS. Impact of colistin MIC on outcomes: Results from the OVERCOME Trial comparing colistin monotherapy and colistin + meropenem combination therapy. 34th European Congress of Clinical Microbiology and Infectious Diseases. 27 - 30 April 2024, Barcelona, Spain
134. Jenkins A, Gillian S, Hussain S, Hughes S, Ashton C, Hamilton RA, Khadem TM, Yakemowicz C, **Pogue JM**, McCreary EK. Jabs to Tabs Goes Global: Point-Prevalence of Doses of Intravenous Antibiotic Administered as a Function of Daily Census. 34th European Congress of Clinical Microbiology and Infectious Diseases. 27 - 30 April 2024, Barcelona, Spain
133. Kaye KS, **Pogue JM**, Dennison J, Perry C, Huang C, Luck ME, Mulgirigama A, Janmohamed S, Sheets AJ. Early symptom response in patients with uncomplicated urinary tract infection treated with gepotidacin or nitrofurantoin: pooled data from two pivotal phase 3 studies. 34th European Congress of Clinical Microbiology and Infectious Diseases. 27 - 30 April 2024, Barcelona, Spain
132. Wangchinda W, Aitken SL, Lephart PR, **Pogue JM**. Stratification of Patient-Specific Risk Factors for Multidrug-Resistant Gram-Negative Respiratory Pathogens in Intensive Care Units (ICU). IDWeek 2023, October 11-15, Boston MA
131. Wangchinda W, Aitken SL, Lephart PR, **Pogue JM**. A Comparison of Different Strategies for Optimizing the Selection of Empiric Antibiotic Therapy for Hospital-Acquired Pneumonia (HAP) and Ventilator-Associated Pneumonia (VAP) Caused by Gram-Negative Bacteria in Intensive Care Units (ICU). IDWeek 2023, October 11-15, Boston MA
130. Wangchinda W, Aitken SL, Pierce VM, Lephart PR, **Pogue JM**. Impact of CLSI Breakpoint Changes on Unit-Specific Combination Antibiograms for Gram-Negative Respiratory Isolates. IDWeek 2023, October 11-15, Boston MA
129. Wangchinda W, **Pogue JM**, Thamlikitul V, Leelawattanachai P, Koomanachai P, Pai M. Population Pharmacokinetic/Pharmacodynamic (PK/PD) Target Attainment Analysis of Intravenous Fosfomycin for Treatment of Multidrug-Resistant Gram-Negative Bacterial Infections. IDWeek 2023, October 11-15, Boston MA. [Platform presentation]
128. Lee M, Nigel J, Wangchinda W, Pierce VM, Bishop O, **Pogue JM**. Risk Factors for Infection or Colonization with Ceftolozane/Tazobactam Non-Susceptible Extensively β -Lactam Resistant *Pseudomonas aeruginosa*. IDWeek 2023, October 11-15, Boston MA
127. Brennan B, McNamara S, Stier E, Malani AN, **Pogue JM**, Ressler A, Eckel S, Coyle J, Bagdasarian N. Collaboration between Public Health and Healthcare Partners to Attack the Rising Menace of *Candida auris*: The Michigan Experience. IDWeek 2023, October 11-15, Boston MA
126. Shields RK, Abbo LM, Ackley R, Aitken SL, Albrecht B, Babiker A, Cifuentes R, Claeys KC, DeSear K, Gallagher JG, Gregory E, Heil EL, Hickey C, Klatt M, Kline EG, Kubat RC, Kufel WD, Lee JH, Lim A, Lingg T, MacDougall C, Mathers A, McCreary EK, Moore WJ, Olson S, Oser J, Pham C, Polk C, Satlin MJ, Satola SW, Shah S, Solanki YB, Tamma PD, Vega A, Venugopalan V, Veve M, Wangchinda W, Witt LS, Wu J, **Pogue JM**. A multicenter, observational study to compare the effectiveness of Ceftazidime-Avibactam versus Ceftolozane-Tazobactam for multidrug-resistant *Pseudomonas aeruginosa* infections in the United States (CACTUS). IDWeek 2023, October 11-15, Boston MA. [Platform presentation]
125. Lavoie T, Daffinee K, **Pogue JM**, Achour B, Laplante K: Comparing Efficacy of Serum and Epithelial Lining Fluid Concentrations for Meropenem Against Carbapenem-Resistant Enterobacterales. Selected for

poster presentation at IDWeek 2023, October 11-15, Boston MA.

124. Wangchinda W, Kaye KS, Patel TS, Albin A, Saravolatz L, **Pogue JM**. Risk Prediction Tools for Drug-Resistant *Pseudomonas aeruginosa*. Making a Difference in Infectious Diseases Pharmacotherapy (MAD-ID) Annual Meeting 2023. Orlando, FL.

123. Vita AJ, Rice S, Albin O, Patel TS, Styron CN, Kaye KS, **Pogue JM**. Risk Factors for Infection or Colonization with Piperacillin-Tazobactam (TZP) Resistant *P. aeruginosa* with increasing degrees of β -lactam Resistance. ID Week 2022. Washington D.C.

122. Gupta V, Yu KC, **Pogue JM**, Watts J, Clancy CJ. Trends in carbapenem non-susceptible (Carb-NS) Enterobacterales from hospitalized patients in the US from 2014-2020: A comparison between organisms with and without concerns for chromosomal AmpC beta-lactamase hyperproduction. ID week 2022. Washington D.C.

121. Naas T, **Pogue JM**, Kaye KS, Baba T, Menon A, Echols R, Yamano Y, Longshaw C, Portsmouth S. Efficacy of Cefiderocol in Patients with Nosocomial Pneumonia and Complicated Urinary Tract Infections Caused by Enterobacterales and Carbapenem-Resistant Enterobacterales (CREs) from Three Randomised Clinical Trials. ECCMID 2022. Lisbon, Portugal.

120. Rao K, Zhao Q, Bell J, Krishnan J, Henig O, Daniel J, Sawaya K, Albin O, Mills J, Petty L, Gregg K, Kaul D, Malani A, **Pogue JM**, Kaye KS. Comparison of fidaxomicin and oral vancomycin for the treatment of *Clostridioides difficile* infection in hospitalized patients receiving concomitant antibiotics for concurrent infections. SHEA Spring Meeting 2022, Atlanta, GA.

119. Gupta V, Yu K, **Pogue JM**, Watts J, Clancy CJ. Facility reported vs. CLSI MIC breakpoint comparison of Carbapenem not-susceptible (Carb-NS) *Pseudomonas aeruginosa* (PSA) from 2016-2019: A multicenter evaluation. ID week 2021 (virtual)

118. Gupta V, Yu K, **Pogue JM**, Watts J, Clancy CJ. Facility reported vs. CLSI MIC breakpoint comparison of Carbapenem non-susceptible (Carb-NS) Enterobacteriaceae (ENT) from 2016-2020: A multicenter evaluation. ID week 2021 (virtual)

117. Kalaria S, **Pogue JM**, Heil E. Tazobactam Pharmacokinetic/Pharmacodynamic Target Attainment in Healthy Volunteers and Critically-Ill Hospitalized Patients. ID week 2021 (virtual).

116. **Pogue JM**, Marchaim D, Thamlikitkul T, Carmeli Y, Chiu CH, Daikos G, Dhar S, Durante-Mangoni E, Gikas A, Kotanidou A, Leibovici L, Paul M, Roilides E, Rybak M, Samarkos M, Sims M, Tancheva D, Tsiodras S, Divine G, Ghazaryan V, Chiou C, Kaye KS. The Impact of in vitro Synergy Between Colistin and Meropenem on Clinical Outcomes in Invasive Carbapenem-resistant Gram-negative Infections: A Report from the OVERCOME Trial

115. **Pogue JM**, Marchaim D, Thamlikitkul T, Carmeli Y, Chiu CH, Daikos G, Dhar S, Durante-Mangoni E, Gikas A, Kotanidou A, Leibovici L, Paul M, Roilides E, Rybak M, Samarkos M, Sims M, Tancheva D, Tsiodras S, Divine G, Ghazaryan V, Chiou C, Kaye KS. Emergence of Colistin Resistance in the OVERCOME Trial: Impact of Combination Therapy with Meropenem. ID week 2021 (virtual).

114. Kaye KS, Marchaim D, Thamlikitkul T, Carmeli Y, Chiu CH, Daikos G, Dhar S, Durante-Mangoni E, Gikas A, Kotanidou A, Leibovici L, Paul M, Roilides E, Rybak M, Samarkos M, Sims M, Tancheva D, Tsiodras S, Divine G, Ghazaryan V, Chiou C, **Pogue JM**. cOlistin Monotherapy VERSus COMbination Therapy (OVERCOME), NCT01597973, NIH study 10-0065 (platform presentation). ECCMID 2021 (virtual).

113. Klatt M, Dillman N, Eschenauer G, Gandhi T, Marshall V, Nagel J, Patel T, Petty L, Smith A, **Pogue JM**. Comparative in vitro activity of ceftolozane/tazobactam, ceftazidime/avibactam, meropenem/vaborbactam, imipenem/relebactam, and cefiderocol against *P. aeruginosa*, including drug-resistant isolates at an academic medical center. ECCMID 2021 (virtual).
112. Klatt M, Dillman N, Eschenauer G, Gandhi T, Marshall V, Nagel J, Patel T, Petty L, Smith A, **Pogue JM**. Rethinking optimization of empiric gram-negative therapy for pneumonia in intensive care units: We can do better. ECCMID 2021 (virtual).
111. Marcella S, Kanakamedala H, Zhou Y, Cai B, **Pogue JM**. Trends of Carbapenem Resistance in Enterobacteriales in the US Between 2015 and 2019. ID Week 2020 (virtual).
110. Patel TS, Kaye KS, Marshall V, Krishnan J, Mills J, Albin O, Smith A, Young C, Lephart P, **Pogue JM**. In vitro Activity of Ceftazidime/Avibactam Compared to Ceftolozane/Tazobactam Against Real World Isolates of *Pseudomonas aeruginosa* at a Large Academic Tertiary Care Hospital. ID Week 2019. Washington DC.
109. Gandhi TN, Petty LA, Vaughn VM, Patel TS, Ratz D, McLaughlin E, Malani AN, Dumkow LE, **Pogue JM**, Thyagarajan R, Hsaiky L, Bernstein SJ, Flanders SA. Assessment of Fluoroquinolone Appropriateness for Hospitalized Patients with Asymptomatic Bacteriuria and Cystitis: A Multi-Hospital Cohort Study. ID Week 2019. Washington DC.
108. **Pogue JM**, Kanakamedala H, Zhou Y, Cai B. Burden of Illness in Carbapenem-resistant *Acinetobacter baumannii* infections in US Hospitals (2014-2018). ID Week 2019. Washington DC.
107. Tran KN, Mynatt RP, Kaye KS, **Pogue JM**. Clinical Outcomes with Extended Infusion (EI) versus Intermittent Infusion (II) of Cefepime (FEP), Piperacillin/Tazobactam (TZP), and Meropenem (MEM) in Patients with Gram-Negative (GN) Bacteremia. ID Week 2019. Washington DC.
106. Jorgensen SCJ, Trinh TD, Zasowski EJ, Alosaimy S, Melvin S, Dhar S, Mynatt RP, **Pogue JM**, Rybak MJ. Combination Vancomycin Plus Cefazolin for Methicillin-Resistant *Staphylococcus aureus* Bloodstream Infections. ID Week 2019. Washington DC.
105. Patel TS, Kaye KS, Krishnan J, Marshall V, Mills J, Albin O, Young C, Smith A, Lephart P, **Pogue JM**. Comparative *In Vitro* Activity of Meropenem/Vaborbactam and Meropenem Against a Collection of Real-World Clinical Isolates of *Pseudomonas aeruginosa*. ID Week 2019. Washington DC.
104. Sandhu A, Goldman E, Polistico J, Polistico S, Oudeif A, Aranha A, Murray KP, Zhao J, Mynatt RP, **Pogue JM**, Dhar S. Factors Influencing the Duration of Antimicrobial Therapy for Community Acquired Pneumonia. ID Week 2019. Washington DC.
103. Albin O, Patel TS, Henig O, Valley T, **Pogue JM**, Petty LA, Mills J, Brancaccio A, Kaye KS. Impact of Empiric Aminoglycoside Usage on Outcomes in Bacterial Pneumonia. ID week 2019. Washington DC.
102. Sandhu A, Goldman E, Polistico J, Polistico S, Oudeif A, Aranha A, Murray KP, Zhao J, Mynatt RP, **Pogue JM**, Dhar S. Impact of Utilizing Drug Resistance in Pneumonia (DRIP) Score on Management of Pneumonia. ID Week 2019. Washington DC.
101. Alosaimy S, Jorgensen SCJ, Lagnf A, Zasowski E, Trinh TD, Mynatt RP, **Pogue JM**, Rybak MJ. Impact of Vancomycin Area Under Curve on Persistent Methicillin-Resistant *Staphylococcus aureus* (MRSA)

Bloodstream Infections (BSI). ID Week 2019. Washington DC.

100. **Pogue JM**, Jones RN, Bradley JS, Andes D, Bhavnani SM, Dudley M, Flamm RK, Rodvold KA, Ambrose PG. Polymyxin Antimicrobial Susceptibility (AST) Testing and Breakpoints for *P. aeruginosa*, *A. baumannii*, and Enterobacteriaceae: Recommendations from the United States Committee on Antimicrobial Susceptibility Testing (USCAST). ID Week 2019. Washington DC.

99. Petty LA, Vaughn V, Patel TS, Malani AN, **Pogue JM**, Dumkow LE, Thyagarajan R, Hsaiky L, Osterholzer D, Kaye KS, Ratz D, McLaughlin E, Flanders SA, Gandhi TN. Risk Factors Associated with Treatment of Asymptomatic Bacteriuria in the Emergency Department: A Multi-Hospital Cohort Study. ID Week 2019. Washington DC.

98. Simpson T, Shah S, **Pogue JM**, Wu J. Safety and Efficacy of High-Dose Cefazolin Therapy in Obesity. ID Week 2019. Washington DC.

97. Patel TS, Marshall V, Kaye KS, Smith A, Young C, Lephart P, **Pogue JM**. Susceptibility of Beta-Lactam-Resistant *P. aeruginosa* to Other Beta-lactams: Is There Truly a Lack of Cross-Resistance? ID Week 2019. Washington DC.

96. Albin O, Patel TS, Henig O, Mills JP, **Pogue JM**, Petty LA, Valley T, Kaye KS. Clinical Implications of treatment failure in pneumonia: the pathogen matters. ECCMID 2019. Amsterdam, The Netherlands.

95. **Pogue JM**, Marshall V, Smith A, Young C, Lephart P, Kaye KS, Patel TS. Do we have any clue what we are doing to optimize empiric therapy? The *Pseudomonas aeruginosa* example. ECCMID 2019. Amsterdam, The Netherlands.

94. **Pogue JM**, Taylor M, Mynatt RP, Mitchell R, Dhar S, Salimnia H. Comparative activity of plazomicin and conventional aminoglycosides using current CLSI/EUCAST and proposed USCAST breakpoints against carbapenem-resistant Enterobacteriaceae in Detroit, Michigan. ECCMID 2019. Amsterdam, The Netherlands.

93. **Pogue JM**, Kaye KS, Veve MP, Gerlach A, Patel TS, Davis SL, Chaung E, Ray A, Puzniak L, Bonomo RA, Perez F. "Real World" Treatment of Multi-drug Resistant (MDR) or Extensively-drug Resistant (XDR) *P. aeruginosa* Infections with Ceftolozane/Tazobactam (C/T) versus a Polymyxin or Aminoglycoside (Poly/AG) based regimen: A Multicenter Comparative Effectiveness Study. ID Week 2018. San Francisco, CA.
92. Cooper C, Henig O, Kaye KS, Hussain N, Hussain Z, Deeds K, Salimnia H, Lephart P, Hayat U, Patel J, **Pogue JM**. The Hypothetical Impact of Accelerate Pheno on Time to Appropriate Therapy (TTAT) and Time to Optimal Therapy (TTOT) in an Institution with an Established Antimicrobial Stewardship Program & Rapid Genotypic Organism/Resistance Marker Identification. ID Week 2018. San Francisco, CA.
91. Albin O, Henig O, Patel TS, **Pogue JM**, Petty L, Valley T, Mills JP, Kaye KS. Clinical Significance of Microbiologic Treatment Failure following Clinical Cure of Pneumonia. ID Week 2018. San Francisco, CA.
90. Veve MP, **Pogue JM**, Zervos MJ, Davis SL. Treatment Characteristics and Predictors of Mortality in Patients with Infected Chronic Pressure Ulcers in Detroit. ID Week 2018. San Francisco, CA.
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2. Kullar R, Leonard S, Davis S, Delgado G, Wahby K, **Pogue JM**, Sheth A, Shah P, Falcione B, Rybak M. Validation of a high-trough vancomycin nomogram to achieve trough concentrations of 15-20 mg/L. ECCMID 2009. Helsinki, Finland.

1. **Pogue JM**, DePestel DD, Pleva M, Newton D, Carver, P. Determination of optimal antibiogram data to utilize in optimizing empiric Gram-negative antibacterial therapy for hospital-acquired pneumonia and bacteremia. ASHP clinical midyear meeting 2007. Las Vegas, NV.

Clinical and Research Training Experience:

Co-Director, Infectious Diseases Clinical Practice and Translational Research Fellowship 2024 – present

- University of Michigan College of Pharmacy

Director, Infectious Diseases PGY-2 Residency 2009 – 2013

- Detroit Receiving Hospital; Detroit Medical Center

Preceptor, PGY-2 residents (Infectious Diseases/Antimicrobial Stewardship) 2008 – 2019

- Practice site: Sinai-Grace Hospital; Detroit Medical Center
- PGY-2 residents precepted
 - Detroit Medical Center Infectious Diseases PGY-2
 - Michigan Medicine Infectious Diseases PGY-2
 - Harper University Hospital Pharmacotherapy PGY-2
 - Detroit Receiving Hospital Critical Care PGY-2
 - Detroit Receiving Hospital Emergency Medicine PGY-2

Preceptor, PGY-1 Pharmacy Practice Residents (Infectious Diseases/Stewardship) 2008 – 2019

- Practice site: Sinai-Grace Hospital; Detroit Medical Center
- PGY-1 Residents precepted:
 - Sinai-Grace Hospital
 - Harper University Hospital
 - Detroit Receiving Hospital

Preceptor, Antimicrobial stewardship and Infectious Diseases APPE rotations. 2008 – 2019

- Practice site: Sinai-Grace Hospital; Detroit Medical Center
- Students precepted:
 - Wayne State University College of Pharmacy and Health Sciences
 - University of Michigan College of Pharmacy
 - University of Pittsburgh College of Pharmacy
 - Lake Erie College of Osteopathic Medicine (LECOM) School of Pharmacy

Organization Committee Involvement and Leadership:

Society of Infectious Diseases Pharmacists (SIDP):

- President (2018 – 2021)
 - Immediate Past President (2020 – 2021)
 - President (2019 – 2020)
 - President- Elect (2018 – 2019)
- Strategic Planning Committee (2020 – 2021)
 - Board Liaison (2020 – 2021)

- Annual Report Committee (2020 – 2021)
 - Board Liaison (2020 – 2021)
- Nominations and Bylaws Committee (2020 – 2021)
 - Board Liaison (2020 – 2021)
- Website committee (2018- 2019)
 - Board Liaison (2018 – 2019)
- Social Media Committee (2018 – 2019)
 - Board Liaison (2018 – 2019)
- Publications and Podcasts Committee (2018 – 2019)
 - Board Liaison (2018 – 2019)
- Inter-organization and Engagement (2019 – 2021)
 - Board Liaison (2019 – 2021)
- Policy and Governmental Affairs Committee (2019 – 2020)
 - Board Liaison (2019 – 2020)
- Programs (ID Week) Committee (2013 – 2014, 2019 – 2020)
 - Board Liaison (2019 – 2020)
- Guidelines committee (2022 – 2024)
 - Chair (2023 – 2024)
 - Vice Chair (2022 – 2023)
- Membership Committee (2009 – 2010)
- Internet committee (2009 – 2010, 2013 – 2014, 2017 – 2018)
 - Vice Chair (2017 – 2018)
- Community Antimicrobial Stewardship Committee (2014 – 2015)
- Research Committee (2016 – 2018)
- SIDPEC committee (2016 – 2018)

United States Committee on Antimicrobial Susceptibility Testing (USCAST):

- Executive Committee Member (2022 – Present)
 - Chairman (2022 – Present)
- Member (2019 – Present)
- Advisor (2016 – 2018)

American College of Clinical Pharmacists (ACCP):

- ID PRN research Committee (2016 – 2019)
 - Chair (2017 – 2018)
 - Mentor – Justin Moore (2020 – Present)
- Faculty Panel Chair for IDSAP (2018 – 2019)

Society for Healthcare Epidemiology of America (SHEA):

- Research Committee (2022 – Present)
- Antimicrobial Stewardship Committee (2018 – 2021)
 - Co-chair- engaging critical access hospitals subcommittee (2019 – 2021)

Detroit Medical Center:

- Member, Antimicrobial Subcommittee (2008 – 2019)
 - Pharmacy lead and co-chair (2017 – 2019)
- Residency Steering Committee (2009 – 2013)

Sinai-Grace Hospital:

- Medication Use Committee Member (2009 – 2019)
- Antimicrobial Stewardship Team Lead (2009 – 2019)

- Residency Advisory Committee (2009 – 2019)
- Infection Control Committee (2009 – 2019)

Tenet Antimicrobial Stewardship Committee Member (2015 – 2019)

Vanguard Health Systems

- System coordinator Antimicrobial Stewardship (2011 – 2013)

Michigan Medicine

- Antimicrobial Subcommittee (2007 – 2008; 2019 – Present)
 - Secretary 2007 – 2008

University of Michigan College of Pharmacy

- BSPS Curriculum Committee (2022 – Present)
- Admissions Committee (2019 – Present)
- Faculty Development Committee (2021 – 2023)
 - Co-chair (2021-23)

Michigan Department of Health and Human Services

- Antimicrobial Stewardship and Antimicrobial Resistance Pharmacy Consultant (2022- Present)

University of Michigan Investigational Review Board Member (2023 – 2024)

Nontraditional Educational Experiences:

Podcasts:

- SIDP Breakpoints (2019 – Present)
 - “The Itch” An SIDP Podcast Miniseries on Penicillin Allergy (2019)
 - 5 Ways Hospital Pharmacists Can Be Antibiotics Aware (2019)
 - What is Happening Right Now? COVID-19 Challenges and Silver Linings (2020)
 - A Lung Time Coming: Controversies in Community Acquired Pneumonia (2021)
 - Expectation vs. Reality: An Insider Look at the OVERCOME and MERINO-2 trials (2022).
 - 5 part Mini-series on Antimicrobial Susceptibility Breakpoints (2023).
 - Tetracyclines (2024)
- Society for Healthcare Epidemiology of America (SHEA) Podcasts (2020)
 - COVID-19: Involving Antimicrobial Stewardship Programs (2020)
- Pharmacy to Dose: The Critical Care podcast (2023)
 - The Mercy Trial

Blogs:

- IDStewardship (2016 – 2017)
 - [Top 5 Unanswered questions about the management of invasive infections due to multidrug resistant Gram-negative bacteria](#) (2016)
 - [Nephrotoxicity: Piperacillin-Tazobactam Plus Vancomycin Versus Cefepime Plus Vancomycin](#) (2017)

Editorial Boards:

Antimicrobial Stewardship & Healthcare Epidemiology 2021 – Present

Open Forum in Infectious Diseases. 2018- Present.

Antimicrobial Agents and Chemotherapy. 2017 – Present.

Infectious Diseases and Therapy. 2017 – Present

Contagion Live. 2017 – Present

Wellspring Infectious Diseases. 2019 – Present.

Pharmacy Practice News. 2017 – 2019.

Associate Editor. Clinical and Biomedical research. 2014 – 2016

Peer Reviewer:

Journal of the American Medical Association (JAMA)

Lancet Infectious Diseases

Clinical Infectious Diseases

Antimicrobial Agents and Chemotherapy

Journal of Antimicrobial Chemotherapy

Pharmacotherapy

Annals of Pharmacotherapy

Journal of Clinical Microbiology

Diagnostic Microbiology and Infectious Diseases

BMC Infectious Diseases

Open Forum in Infectious Diseases

Clinical Microbiology and Infection

Expert Review of Anti-infective Therapy

Virulence

Awards and Honors:

Fellow, Society of Infectious Diseases Pharmacists (2022).

Fellow, American College of Clinical Pharmacists (Awarded 2021).

Covid-19 Coalition member. MJH Life Sciences™ 2020.

Society of Infectious Diseases Pharmacist Outstanding Clinical Practice in Infectious Diseases Pharmacotherapy Award. 2017.

Lamp Award for Most Outstanding Basic Sciences Professor, Wayne State University School of Medicine. 2013.

Preceptor of the Year, University of Michigan College of Pharmacy. 2011.

Graduated Magna cum Laude. University of Pittsburgh School of Pharmacy. 2006.

Dean's List. University of Pittsburgh School of Pharmacy. 2002 – 2005.

Patient counseling competition winner. University of Pittsburgh School of Pharmacy. 2003, 2004.

Current Affiliations and Memberships:

United States Committee on Antimicrobial Susceptibility Testing (USCAST)

Society of Infectious Diseases Pharmacists

Society for Healthcare Epidemiology of America

European Society of Clinical Microbiology and Infectious Diseases

American College of Clinical Pharmacists

- Infectious Diseases Practice and Research Network

Rho Chi Honor Society

References available upon request