

Curriculum Vitae

**KEVIN W. GAREY, BS, PharmD, MS, FASHP, FIDSA, FCCP, BCIDP**

**WORK ADDRESS**

Dept of Pharmacy Practice and Translational Research  
College of Pharmacy, University of Houston  
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**CURRENT ACADEMIC APPOINTMENTS**

University of Houston College of Pharmacy Dept. of Pharmacy Practice & Translational Research Houston, TX	Department Chair	2007-
University of Houston College of Pharmacy Houston, TX	Professor	2013-
University of Texas School of Public Health Houston, TX	Adjunct Professor	2014-

**PAST ACADEMIC APPOINTMENTS**

University of Illinois at Chicago College of Pharmacy Chicago, IL	Clinical Associate	1998-2001
University of Houston College of Pharmacy Houston, TX	Assistant Professor	2001-07
University of Houston College of Pharmacy Houston, TX	Associate Professor	2007-2013
University of Texas School of Public Health Houston, TX	Adjunct Associate Professor	2008-2014

**EDUCATION**

Dalhousie University Halifax, NS	Bachelor of Science in Pharmacy	1991-95
State University of New York at Buffalo Buffalo, NY	Doctorate of Pharmacy	1995-97
University of Texas School of Public Health Houston, TX	Master of Science in Biometry	2002-07

**PROFESSIONAL TRAINING**

Mary Imogene Bassett Hospital Cooperstown, NY	Pharmacy Practice Residency	1997-98
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University of Illinois at Chicago Chicago, IL	Infectious Diseases Residency	1998-99
University of Illinois at Chicago Chicago, IL	Fellowship in Infectious Diseases	1999-2001

### **OTHER WORK EXPERIENCE**

HMCS SCOTIAN Naval Reserve Station Halifax, Nova Scotia.	Naval Control of Shipping Officer	1991-94
Lawton's Drugs Halifax, Nova Scotia.	Student pharmacist	1993-94
United States Pharmacopeia Rockville, Maryland.	Summer intern	1994
Clinical Retroviral Lab University at Buffalo Buffalo, New York.	Research assistant	1995-96
Poison Control Center Children's Hospital of Buffalo Buffalo, New York.	Poison Control Specialist	1996-97
Roswell Park Cancer Institute Buffalo, New York.	Research assistant	1997

### **PROFESSIONAL SOCIETIES**

American College of Clinical Pharmacy (ACCP)	1996-
American Society of Health System Pharmacy (ASHP)	1997-
The Society of Infectious Disease Pharmacists (SIDP)	1997-
American Society of Microbiology (ASM)	1999-
Infectious Diseases Society of America	2006-

### **PROFESSIONAL ACTIVITIES**

<i>Society of Infectious Diseases Pharmacists (SIDP)</i>	
Member, Membership committee	1998-2000
Member, Annual meeting committee	2001
Member, Research committee	2017
Member, Fundraising committee	2017
Member, Guidelines committee	2019-20
<i>American Society of Health Systems Pharmacists (ASHP)</i>	
Member, ASHP Midyear Section of Clinical Specialists Programming Committee	2006-07
Vice-chair, ASHP Midyear Section of Clinical Specialists Programming Committee	2007-08
Chair, ASHP Midyear Section of Clinical Specialists Programming Committee	2008-09
Member, ASHP Sustained Contribution to the Medical Literature Award Committee	2008-11
Member, ASHP Midyear Educational Programming Committee	2011
Member, ASHP Foundations Literature Awards Program, Drug Therapy Award	2013
Program Leader, ASHP's Infectious Diseases Pharmacy Specialty Review Program	2017-
PharmD program Self-study Accreditation team	2016

United Arabs Emirates University, Al Ain, UAE

*Infectious Diseases Society of America (IDSA)*

Member, IDSA Clinical Practice Guidelines for <i>C. difficile</i> Infection	2012
Member, IDSA Standards and Practice Guidelines Committee (3-year term)	2016-19
Member, IDSA Concise Clinical Practice Guidelines for <i>C. difficile</i> infection	2020-21
Fellow, IDSA	2021

**HONORS/AWARDS**

Research Fellowship Award, University of Illinois at Chicago	2000
SIDP Pharmacists Research Award.	2000
ACCP ID-PRN Resident/Fellow Research Award	2000
Rho Chi member	2003
Who's Who in Medicine and Healthcare	2003
University of Houston College of Pharmacy Rho Chi Teacher Excellence Award	2003
University of Houston College of Pharmacy Faculty Teaching Excellence Award	2003
Finalist, University of Houston Faculty Teaching Award	2004
University of Houston College of Pharmacy Rho Chi Teacher Excellence Award	2005
University of Houston College of Pharmacy Faculty Preceptor Award	2005
Selected Best Papers in Mycology ICAAC 2006, San Francisco, CA	2006
University of Houston College of Pharmacy Faculty Research Excellence Award	2007
SIDP Impact Paper in Infectious Diseases Pharmacotherapy Award	2007
ASHP Drug Therapy Research Award	2007
Best Review Paper of 2009, <i>Journal of Hospital Infection</i>	2009
ASHP Best Practices Award in Health-System Pharmacy	2010
Fellow, American Society of Health-System Pharmacy	2012
SIDP Impact Paper in Infectious Diseases Pharmacotherapy Award	2012
University of Houston PLS Faculty Leadership Award	2013
Top 10 Papers in Mycology, ICAAC 2014, Washington, DC	2014
Rho Chi Bergy Lecture Recipient, West Virginia University Morgantown, WV	2017
IDSA Antimicrobial Stewardship Center of Excellence, Baylor St. Luke's Medical Center	2020
Fellow, Infectious Diseases Society of America	2020
Fellow, American College of Clinical Pharmacy	2021
American College of Clinical Pharmacy Russell R. Miller Award	2022
Robert L. Boblitt Endowed Professor in Drug Discovery	2022

**LISCENSURES / CERTIFICATES**

Advanced Cardiac Life Support (ACLS)  
Basic Life Support (BLS)  
Pharmacy licensure Illinois  
Pharmacy licensure Texas

**UNIVERSITY AND HOSPITAL COMMITTEES**

University of Houston College of Pharmacy Committees		
Member	Student Interview Committee	2002-08
Chair	Infectious Disease Tenure Track Search Committee	2002
Member	Internet Technology Committee	2003-05
Member	Infectious Disease Fellowship Search Committee	2003
Department Representative	Faculty Advisory Council (elected position)	2003-05
Chair	Internal Medicine Tenure Track Search Committee	2004
Chair	Critical care Tenure Track Search Committee	2005-06
Chair	Faculty Advisory Committee (elected position)	2006-07
Member	Ad hoc committee review of guidelines for the	2007

Member	promotion of non-tenure track faculty Promotion and tenure committee	2007
Member	Executive council	2006-
Chair	Dept of Clinical Sciences and Administration	2007-
Chair	ACPE Self-study Chair, Standards 24-26	2010-11

#### St. Luke's Episcopal Hospital Committees

Member	Sternal Wound Infection Taskforce	2002-07
Member	Infections Committee	2002-
Member	Drug Use Evaluation Committee	2002-08
Member	Antibiotic subcommittee	2002-08
Member	Center for Antimicrobial Stewardship	2008-

### **TEACHING EXPERIENCE**

#### Didactic

##### *Undergraduate (BS Pharmaceutical Sciences)*

Lecturer for pharmacoepidemiology (10-15 hrs/year)	2009-10
Lecturer for Drug Information (2 hrs/year)	2009-10

##### *Professional Pharmacy program (PharmD)*

Lecturer for drug therapeutics, pharmacodynamics, research methods, infectious disease elective (course coordinator), OTC agents, and literature evaluation (20-30 hrs/year)	2001-
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##### *Graduate (MS and PhD)*

Lecturer and course coordinator for pharmacoepidemiology (42 hrs/year)	2003-06
Lecturer for Pharmacoepidemiology (15-20 hours/year)	2007-11
Lecturer for Research Seminar in Pharmacy Administration (1-2 hrs/year)	2009-
Lecturer for Pharmacy Administration II (3 hrs/year)	2010-17
Coordinator and lecturer for Seminar Series in Healthcare leadership (28 hrs/year)	2010-
Lecturer for Residency Teaching Certificate Program (2 hrs/year)	2010-
Coordinator and lecturer for Introduction to Health System Management (36 hrs/yr)	2011-12

#### Clinical Instructor / Experiential Training

Infectious Diseases St. Luke's Episcopal Hospital	Pharmacy student preceptor (3-5 months/year)	2002-
Infectious Diseases St. Luke's Episcopal Hospital	Pharmacy resident preceptor (2-10 months/year)	2002-
Academia rotation University of Houston College of Pharmacy	Pharmacy resident preceptor (2-6 months/year)	2009-
Academia and Infectious Diseases	National University of Singapore (1-4 months/yr) Pharmacy student preceptor	2011-8

#### Postdoctoral fellows

Elizabeth Hirsch, PharmD	Postdoctoral fellowship	2008-10
Current position: Associate Professor, University of Minnesota		

Dhara Shah, PharmD	Postdoctoral fellowship	2009-11
	<i>Recipient of ACCP Best Resident/Fellow poster ACCP annual meeting 2010</i>	
	Current position: Clinical Associate Professor, University of Houston	
Cecilia Truc Tran, PharmD	Postdoctoral fellowship	2009-12
	Current position: Assistant Professor, Houston Methodist/ Columbia University	
Nicholas Beyda, PharmD	Postdoctoral fellowship	2010-13
	Current position: Assistant Professor, University of Houston	
Dana Bowers, PharmD	Postdoctoral fellowship	2011-13
	Current position: Clinical Assistant Professor, Washington State University, Yakima, WA	
Samuel Aitken, PharmD	Postdoctoral fellowship	2012-14
	Current position: Clinical pharmacist, MD Anderson Cancer Center, Houston, TX	
Kady Phe, PharmD	Postdoctoral fellowship	2013-15
	Current position: Clinical pharmacist, Baylor St. Luke's Medical Center, Houston TX	
Nancy Vuong, PharmD	Postdoctoral fellowship	2014-16
	Current position: Clinical pharmacist, Memorial Herman Memorial City, Houston TX	
Eugenie Basseres, PhD	Postdoctoral fellowship	2015-19
Bradley Endres, PhD	Postdoctoral fellowship	2015-19
	Current position: PGY1 resident, Milwaukee VA, Milwaukee, WI	
Kierra Dotson, PharmD	Postdoctoral fellowship	2016-18
	Current position: Clinical Assistant Professor, Xavier University, New Orleans, LA	
Anne Gonzales-Luna, PharmD	Postdoctoral fellowship	2017-19
	Current position: Research Assistant Professor, University of Houston, Houston TX	
Travis Carlson, PharmD	Postdoctoral fellowship	2017-19
	Current position: Clinical Assistant Professor, Highgate University, High Gate, NC	
Jinhee Jo, PharmD	Postdoctoral fellowship	2020-
Taryn Eubank, PharmD	Postdoctoral fellowship	2021-
Ahmed Zaki, PharmD	Postdoctoral fellowship	2020-

#### Ph.D. thesis advisor

Sumesh Kachroo, BS, MS	Ph.D. Epidemiology, UT School of Public Health	2006-08
Woranuch Saengcharoen, MS,	PhD. Clinical Pharmacy	2006-10
	Prince of Songkla University, Songkhla, Thailand	
Wichai Santimaleeworagun, MS	PhD. Clinical Pharmacy	2010-12
	Prince of Songkla University, Songkhla, Thailand	
Shashank Ghantaji, MBBS	Ph.D. Public Policy, UT School of Public Health	2010-16
Tasnuva Rashid, MBBS	Ph.D. Epidemiology, UT School of Public Health	2015-19
Jacob McPherson, PharmD	Ph.D., Pharmacology, UH College of Pharmacy	2021-present

#### Masters thesis advisor

Milind Rege, BS	MS Pharmacy Administration, UH College of Pharmacy	2003-4
Yu Fang Lee, BS	MS Pharmacy Administration, UH College of Pharmacy	2003-4
Brinda Rao, BS	MS Pharmacy Administration, UH College of Pharmacy	2004-5
Sumesh Kachroo, BS	MS Pharmacy Administration, UH College of Pharmacy	2004-5
Nandan Kumar, BS, MBA	MS Pharmacy Administration, UH College of Pharmacy	2004-5
Paresh Amrutkar, BS, MBA	MS Pharmacy Administration, UH College of Pharmacy	2005-6
Kplola Y Elhor Gbito, MD	MPH, UT School of Public Health	2007-8
Saurabh Sethi, MBBS	MPH, UT School of Public Health	2007-8
Yashoo Yadav, MBBS	MPH, UT School of Public Health	2007-9
Vikas Kumar, MBBS	MPH, UT School of Public Health	2009-10
Philip Zweifel, PharmD	MS Pharmacy Administration, UH College of Pharmacy	2009-10
Linda Ho, PharmD	MS Pharmacy Administration, UH College of Pharmacy	2009-11
Brian Fase, PharmD	MS Pharmacy Administration, UH College of Pharmacy	2009-11
Becki Natalie, PharmD	MS Pharmacy Administration, UH College of Pharmacy	2009-11
Michael Meldrum, PharmD	MS Pharmacy Administration, UH College of Pharmacy	2010-12

Alex Stearns, PharmD	MS Pharmacy Administration, UH College of Pharmacy	2010-12
Jamie Huang, BS	MPH, UT School of Public Health	2010-12
Adidtya Lal, MBBS	MPH, UT School of Public Health	2010-12
Jennifer Pham, PharmD	MS Pharmacy Administration, UH College of Pharmacy	2011-13
Shreya Patel, PharmD	MS Pharmacy Administration, UH College of Pharmacy	2011-13
Christie Gorbach, PharmD	MS Pharmacy Administration, UH College of Pharmacy	2011-13
John Blee, PharmD	MS Pharmacy Administration, UH College of Pharmacy	2011-13
Brooke Bernhart, PharmD	MS Pharmacy Administration, UH College of Pharmacy	2011-13
Achsah Phillips, PharmD	MS Pharmacy Administration, UH College of Pharmacy	2012-14
John Blee, PharmD	MS Pharmacy Administration, UH College of Pharmacy	2012-14
Nelvin Daniel, PharmD	MS Pharmacy Administration, UH College of Pharmacy	2013-15
Brandi Hamilton, PharmD	MS Pharmacy Administration, UH College of Pharmacy	2014-16

### **EDITORIAL BOARD APPOINTMENTS**

Annals of Pharmacotherapy	2007-
Editorial Board Chair, Infectious Diseases Panel	2010-2015
Associate Editor	2015-
Antimicrobial Agents and Chemotherapy	2021-
Antibiotics	2021-

### **JOURNAL REVIEWER**

Infection Control and Hospital Epidemiology	2002-
Annals of Pharmacotherapy	2004-
American Journal of Health System Pharmacy	2004-
American Journal of Preventive Medicine	2005-
Medical Principles and Practice	2005-
Pharmacotherapy	2006-
The Journal of Pharmacy Practice and Research	2006-
Therapeutics and Clinical Risk Management	2006-
Future Drugs	2007-
Journal of Antimicrobial Chemotherapy	2007-
BMC Infectious Diseases	2007-
Journal of Infection	2007-
American Journal of Tropical Medicine & Hygiene	2007-
Lancet	2007-
Medical Mycology	2007-
Clinical Infectious Diseases	2008-
Diagnostic Microbiology and Infectious Diseases	2009-
Digestive Diseases and Sciences	2009-
Critical Care	2009-
Archives of Internal Medicine	2009-
Scandinavian Journal of Infectious Diseases	2010-
Clinical Microbiology and Infection	2010-
Nature Reviews Gastroenterology and Hepatology	2011-
International Journal of Immunogenetics	2011-
Canadian Medical Association Journal	2012-
Antimicrobial Agents and Chemotherapy	2017-
Lancet ID	2018-
Anaerobe	2018-
mBio	2018-
JAMA	2022-

## **PUBLICATIONS (listed in chronologic order)**

Underline indicates corresponding author

### Statistics:

National / International Guidelines:	2
Book chapters:	5
Case reports and reviews:	53
Original research articles:	195
Total	255

### National / International Guidelines

1. LC McDonald, DN Gerding, S Johnson, JS. Bakken, KC Carroll, SE Coffin, ER Dubberke, KW Garey, CV Gould, C Kelly, Loo, JS Sammons, TJ Sandora, MH Wilcox. Clinical Practice Guidelines for *Clostridium difficile* Infection in Adults and Children: 2017 Update by the Infectious Diseases Society of America (IDSA) and Society for Healthcare Epidemiology of America (SHEA). Clin Infect Dis. 2018;66(7):987-94. PMID: 29462280
2. S Johnson, V Lavergne, AM Skinner, AJ Gonzales-Luna, KW Garey, CP Kelly, MH Wilcox: Clinical Practice Guideline by the Infectious Diseases Society of America (IDSA) and Society for Healthcare Epidemiology of America (SHEA): 2021 Focused Update Guidelines on Management of *Clostridioides difficile* Infection in Adults. Clin Infect Dis. 2021 Jun 24:ciab549. doi: 10.1093/cid/ciab549..PMID: 34164674

### Original Research Articles

1. Garey KW, Peloquin CA, Godo PG, Nafziger AN, Amsden GW. Lack of effect of zafirlukast on the pharmacokinetics of azithromycin, clarithromycin, and 14-hydroxyclearithromycin in healthy volunteers. Antimicrob Agents Chemother 1999 May;43(5):1152-5 PMID:10223928
2. Pendland SL, Diaz-Linares M, Garey KW, Woodward JG, Ryu S, Danziger LH. Bactericidal activity and postantibiotic effect of levofloxacin against anaerobes. Antimicrob Agents Chemother 1999 Oct;43(10):2547-2549 PMID:10508042
3. Garey KW, Rubinstein I, Gotfried MH, Khan IJ, Varma S, Danziger LH. Long-term clarithromycin decreases prednisone requirements in elderly patients with prednisone-dependent asthma. Chest 2000;118:1826-7 PMID:11115481
4. Garey KW, Teichner P. Medication errors in hospitalized HIV-infected patients. Impact of a clinical pharmacist. Am J Health-Syst Pharm 2000;57:2283 PMID:11146973
5. Tornatore KM, Garey KW, Saigal N, Reed K, Murray B, Ingalls E, DiFrancesco R, Forrest A, Morse G, Venuto R. Ganciclovir pharmacokinetics and cytokine dynamics in renal transplant recipients with cytomegalovirus infection. Clin Transplant 2001 Oct;15(5):297-308 PMID:1167895
6. Cannon JP, Garey KW, Danziger LH. A concurrent and retrospective analysis of the nephrotoxicity and efficacy of lipid-based amphotericin B formulations. Pharmacotherapy 2001 Sept;21(9):1107-14 PMID:11560200
7. Garey KW, Pendland SL, Huynh VT, Bunch TH, Jensen GM, Pursell KJ. *Cunninghamella bertholletiae* infection in a bone marrow transplant patient: amphotericin lung penetration, MIC determinations, and review of the literature. Pharmacotherapy 2001 Jul;21(7):855-60 PMID:11444582
8. Garey KW, Tesoro E, Muggia V, Pasquier O, Ausman J, Rodvold KA. Cerebrospinal Fluid Concentrations of Quinupristin/Dalfopristin in a Patient with VREF Ventriculitis. Pharmacotherapy. 2001 Jun;21(6):748-50 PMID:11401187

9. Pendland SL, Prause JL, Neuhauser MM, Garey KW, Jung R. Comparative Killing Rates of Gatifloxacin and Ciprofloxacin: Impact of Bacterial Strain and Concentration against 14 Clinical Isolates. *Diag Micro Infect Dis* 2002 Sep;44(1):59-61. PMID:12376032
10. Cannon JP, Fiscella R, Pattharachayakul S, Garey KW, De Alba F, Piscitelli S, Edward DP, Danziger LH. Comparative toxicity and concentrations of intravitreal amphotericin B formulations in a rabbit model. *Invest Ophthalmol Vis Sci* 2003 May;44(5):2112-7 PMID:12714650
11. Garey KW, Alwani A, Danziger LH, Rubinstein, I. Tissue reparatory effects of macrolide antibiotics in chronic inflammatory sinopulmonary diseases. *Chest* 2003;123:261-5 PMID:12527628
12. MH Gotfried, R Jung, CR. Messick, I Rubinstein, KW. Garey, KA. Rodvold, LH. Danziger. Effects of six-week clarithromycin therapy in subjects with corticosteroid-dependent asthma. *Current Therapeutic Research* 2004;65(1):1-12
13. KW Garey, MM Neuhauser, RA Robbins, LH Danziger, I Rubinstein. Markers of Inflammation In Exhaled Breath Condensate Of Young Healthy Smokers. *Chest* 2004;125:22-26 PMID: 14718416
14. MM Neuhauser, D Wiley, L Simpson, KW Garey. Professional Activities and Characteristics of Immunization Certified Pharmacists in Texas. *Ann Pharmacother* 2004;38(2):226-31. PMID:14742755
15. KW Garey, ML Johle, K Behrman, MM Neuhauser. Economic Implications of Unused Medications in Houston, Texas. *Ann Pharmacother* 2004 Jul;38(7):1165-8. PMID:15138296
16. KJ Suda, KW Garey, LH Danziger. Treatment Failures Secondary to Drug Interactions with Divalent Cations and Fluoroquinolone. *Pharm World Sci* 2005;27(2):81-2. PMID;15999916
17. S Kachroo, T Dao, F Zabaneh, M Reiter, M LaRocco, LO Gentry, and KW Garey. Tolerance of Vancomycin for Surgical Prophylaxis in Patients Undergoing Cardiac Surgery and Incidence of Vancomycin-resistant Enterococcus Colonization. *Ann Pharmacother* 2006;40(3):381-5 PMID: 16478809
18. Jiang ZD, DuPont HL, Garey K, Price M, Graham G, Okhuysen P, Dao-Tran T, LaRocco M. A Common Polymorphism in the Interleukin 8 Gene Promoter is Associated with *Clostridium difficile* Diarrhea. *Am J Gastroenterol* 2006;101:1-5 PMID: 16573784
19. KW Garey, MM Neuhauser, DT Bearden, JP Cannon, RE Lewis, LO Gentry, and DP Kontoyiannis. Evaluation of Antifungal Usage in the Surgical Intensive Care Unit: A multi-institutional study. *Mycoses* 2006;49:226-31 PMID: 16681815
20. KW Garey, G Graham, L Gerard, T Dao, ZD Jiang, M Price, and HL. DuPont. Prevalence of Diarrhea at a University Hospital and Association with Modifiable Risk Factors. *Ann Pharmacother* 2006;40:1030-34 PMID: 16684806
21. KW Garey, M Rege, MP Pai, DE. Mingo, KJ Suda, RS Turpin, and DT Bearden. Time until initiation of fluconazole therapy impacts mortality in patients with candidemia: A multi-institutional study. *Clin Infect Dis* 2006;43 (1 July):25-31 PMID: 16758414
22. VH Tam, S Adams, MT LaRocco, LN Gerard, LO Gentry, KW Garey. An Integrated Pharmacoeconomic Approach for Antimicrobial Formulary Decision Making. *Amer J Health Syst Pharm* 2006 Apr 15;63(8):735-9 PMID: 16595813
23. GS Itokazu, DN Schwartz, KW Garey, KA. Rodvold, LH. Danziger, RA Weinstein. Antimicrobial Control Programs – How Well Are They Working? *Amer J Health Syst Pharm* 2006;63:2504-8 PMID:17158699
24. KW Garey, T Dao, H Chen, P Amrutkar, N Kumar, M Reiter, LO Gentry. Timing of Vancomycin Prophylaxis for Patients Undergoing Cardiac Surgery and the Risk of Surgical Site Infections. *J Antimicrob Chemother* 2006;58:645-650 PMID: 16807254
25. DO Maclayton, KJ Suda, KA Coval, TJ Gladney, CB York, KW Garey. Relationship between vancomycin MIC and risk factors, costs, and outcomes in hemodialysis patients with methicillin-resistant *Staphylococcus aureus* bacteremia. *Clin Ther* 2006;28:1208-16 PMID: 16982298



26. Bridges JD, Nettle CB, Dugirrala VJ, Suda KJ, and Garey KW. Low-dose granisetron for the prevention of post-operative nausea and vomiting. *J Applied Res* 2006;6(3):223-9
27. KW Garey, N. Kumar, T Dao, VH Tam, LO Gentry. Risk Factors for Postoperative Sternal Wound Infections due to Gram-negative Bacterial Pathogens in Cardiac Surgery Patients. *J Chemother* 2006;18:402-8 PMID: 17024796
28. PP Amrutkar, MD Rege, H Chen, MT LaRocco, LO Gentry, and KW Garey. Comparison of risk factors for candidemia vs. bacteremia in hospitalized patients. *Infection* 2006;34(6):322-7 PMID: 17180586
29. MP Pai, RS Turpin, and KW Garey. Association of Fluconazole AUC/MIC and Dose/MIC Ratios with mortality in non-neutropenic patients with candidemia. *Antimicrob Agents Chemother* 2007;51(1):35-9 PMID: 17101684
30. MF Price T Dao-Tran, MT, KW Garey, G Graham, LO Gentry, HL DuPont. Epidemiology and incidence of *Clostridium difficile*-associated diarrhea diagnosed upon admission to a university hospital. *J Hosp Infect* 2007;65(1):42-6 PMID: 17145108
31. VH Tam, AN Schilling, MT LaRocco, LO Gentry, K Lolans, JP Quinn, KW Garey. Prevalence of AmpC over-expression in bloodstream isolates of *Pseudomonas aeruginosa*. *Clinical Microbiology and Infection* 2007 Mar;13(4):413-8 PMID: 17359326
32. H Chen, KJ Suda, RS Turpin, MP Pai, DT Bearden and KW Garey. High vs. low-dose fluconazole therapy for treatment of invasive candidiasis among high-risk patients in the intensive care unit: A cost-effectiveness analysis. *Curr Med Res Opin* 2007;23(5):1057-65 PMID; 17519072
33. KW Garey, MP Pai, KJ Suda, RS. Turpin, MD. Rege, DE. Mingo, DT Bearden. Inadequacy of fluconazole dosing in patients with candidemia based on Infectious Diseases Society of America (IDSA) guidelines. *Pharmacoepi Drug Safety* 2007;16(8):919-27 PMID: 17286303
34. KW Garey, RS Turpin, DT Bearden, MP Pai and KJ Suda. Economic analysis of inadequate fluconazole therapy in non-neutropenic patients with candidemia: A multi-institutional study. *International Journal of Antimicrobial Agents* 2007;29(5):557-62 PMID: 17341444
35. Loughlin SM, Mortazavi A, Garey KW, Rice GK, Birthcher KK. Pharmacist-managed vaccination program increased influenza vaccination rates in cardiovascular patients enrolled in a secondary prevention lipid clinic. *Pharmacotherapy* 2007;27(5):729-33 PMID: 17461708
36. Jiang ZD, Garey KW, Price M, Graham G, Okhuysen P, Dao-Tran T, LaRocco M, DuPont HL. Association of IL-8 Polymorphism and IgG Antitoxin A in Patients with *Clostridium difficile* Diarrhea. *Clinical Gastroenterology and Hepatology* 2007 5(8):964-8 PMID: 17618838
37. VH Tam, K Chang, MT LaRocco, AN Schilling, SK McCauley, K Poole, KW Garey. Prevalence and mechanisms of carbapenem resistance in bloodstream isolates of *Pseudomonas aeruginosa*. *Diag Micro Infect Dis* 2007;58:309-14 PMID; 17617302
38. KW Garey, D Lai, TK Dao-Tran, LO Gentry, LY Hwang, BR Davis. Vancomycin compared to cefuroxime for surgical prophylaxis in patients undergoing cardiac surgery: An interrupted time series analysis. *Antimicrob Agents Chemother* 2008;52(2):446-517 PMID: 18025116
39. KW Garey, ZD Jiang, Y Yadav, B Mullins, K Wong, HL DuPont. Peripartum *Clostridium difficile* Infection. Case Series and Review of the Literature. *Amer J Obstet Gynecol* 2008;199(4):332-7 PMID: 18639213
40. VH Tam, EA Gamez, J Weston, LN Gerard, MT LaRocco, JP Caerio, LO Gentry, KW Garey. Outcomes of *Pseudomonas aeruginosa* bacteremia with reduced susceptibility to piperacillin-tazobactam: implication on the appropriateness of resistance breakpoint. *Clin Infect Dis* 2008;46:862-7 PMID: 18279040
41. KW Garey, P Amrutkar, TK Dao-Tran, CP Frost, H Chen, EJ Essien, and LO Gentry. Economic Benefit of Appropriate Antibiotic Timing in Patients Undergoing Cardiovascular Surgery. *Pharmacother* 2008;28:699-706 PMID: 18503397

42. KW Garey, TK Dao-Tran, ZD Jiang, MP Price, LO Gentry, HL DuPont. A clinical risk index for *Clostridium difficile* infection in hospitalized patients receiving broad-spectrum antibiotics. *J Hosp Infect* 2008;70:142-7 PMID: 18723249
43. KW Garey, MV Martorell, QP Vo, VH Tam. Killing Activity of Piperacillin and Rifampin Combination Therapy against Biofilm-embedded *Pseudomonas aeruginosa*. *J Chemother* 2008;20:652-4 PMID: 19028631
44. KW Garey, S Sethi, Y Yadav, HL DuPont. Meta-analysis to assess risk factors for recurrent *Clostridium difficile* infection. *J Hosp Infect* 2008;70:298-304 PMID: 18951661
45. KW Garey, QP Vo, MT LaRocco, LO Gentry, VH Tam. Prevalence and epidemiology of type III secretion protein exoenzymes from bloodstream isolates of patients with *Pseudomonas aeruginosa* bacteremia. *J Chemother* 2008;20(6):714-20 PMID: 19129069
46. KW Garey, QP Vo, RE Lewis, W Saengcharoen, MT LaRocco, VH Tam. Increased bacterial adherence and biomass in *Pseudomonas aeruginosa* bacteria exposed to clarithromycin. *Diag Micro Infect Dis* 2009;63(1):81-6 PMID: 18990530
47. VH Tam, KT Chang, AN Schilling, MT LaRocco, LO Gentry, KW Garey. Impact of AmpC over-expression on outcomes of patients with *Pseudomonas aeruginosa* bacteremia. *Diag Micro Infect Dis* 2009 Mar;63(3):279-85 PMID: 19135330
48. Y Yadav, KW Garey, TK Dao-Tran, V Kaila, KY Elhor Gbitto, and H. DuPont. An Automated System to Identify *Clostridium difficile* Infection Among Hospitalized Patients. *J Hosp Infect* 2009;72:337-41 PMID: 19596490
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#### Continuing Education Monographs

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2. The Pharmacist's Role in Implementing National Guidelines for the Treatment of Community Acquired Pneumonia. ACPE #245-999-02-061-H01

#### Selected Abstracts

1. \*\*Amrutkar PP, Rege M, Kumar N, Kachroo S, Garey KW. Comparison of Risk Factors for Blood Stream Candidemia and Bacteremia in Hospitalized Patients. 10th Annual ISPOR, Washington, DC. May 15th-18th, 2005. Awarded ISPOR best contributed paper award\*\*
2. Kumar N, Dao T, Gentry L, Garey KW. Risk Factors and Outcomes Of Surgical Site Infections In Diabetics Undergoing Cardiac Surgery. 10th Annual ISPOR, Washington, DC. May 15th-18th, 2005. (Podium presentation)
3. QP Vo, AN Schilling, MV Martorell, VH Tam, RE Lewis, KW Garey. Biofilm Stabilizing Effect of Clarithromycin (CLA) on *Pseudomonas aeruginosa* (PSA). 105<sup>th</sup> ASM General Meeting, Atlanta GA June 4-9, 2005
4. MV Martorell, QP Vo, L Hubbard, G Vo, VH Tam, KW Garey. In Vitro Activity and Penetration of Piperacillin (PIP) in Biofilm-Embedded *Pseudomonas aeruginosa* (PSA). 105<sup>th</sup> ASM General Meeting, Atlanta GA June 4-9, 2005
5. S. Kachroo, F. Zabeneh, L. O. Gentry, KW Garey. Risk Factors and Outcomes Involved in Surgical Site Infections Due to Resistant Gram Positive Bacteria in Patients Undergoing Orthopedic Surgery. 45<sup>th</sup> ICAAC. Washington, DC, December 2005
6. MD Rege, MP Pai, DE Mingo, KJ Suda, RC Turpin, KW Garey. Changes in Empirically Prescribed Fluconazole in Patients with *Candida glabrata* Infection. 45<sup>th</sup> ICAAC. Washington, DC, December 2005
7. KW Garey, M Rege, MP Pai, DE Mingo, KJ Suda, RS Turpin, DT Bearden. Time Until Initiation of Fluconazole Therapy Impacts Mortality in Patients with Candidemia: a Multi-Institutional Study. 45<sup>th</sup> ICAAC. Washington, DC, December 2005
8. QP Vo, W Saengcharoen, L Hubbard, KW Garey; The Influence of Biofilms on Recurrent Infections and Mortality in Hospitalized Patients with *Pseudomonas aeruginosa* (PSA) Bacteremia. 45<sup>th</sup> ICAAC. Washington, DC, December 2005
9. N Kumar<sup>1</sup>, T Dao, LO Gentry, KW Garey. Risk Factors and Outcomes of Gram-Negative Surgical Site Infections in Patients Undergoing Cardiac Surgery. 45<sup>th</sup> ICAAC. Washington, DC, December 2005
10. QP Vo, VH Tam, B Rao, MT LaRocco, LO Gentry and KW Garey. Type III Secretory Proteins and Empiric Antibiotic Therapy to Predict Mortality in Patients with *Pseudomonas aeruginosa* (PSA) Bacteremia. 45<sup>th</sup> ICAAC. Washington, DC, December 2005



11. PP Amrutkar, N Kumar, S Kachroo, B Rao, M Reiter, T Dao, LO Gentry, KW Garey. Timing of Prophylactic Vancomycin in Cardiac Surgery in Relation to Postoperative Infections. 45<sup>th</sup> ICAAC. Washington, DC, December 2005 (Podium Presentation).
12. VH Tam, KT Chang, MT LaRocco, AN Schilling, K Poole, KW Garey. Prevalence and Mechanisms of Carbapenem Resistance in Bloodstream Isolates of *Pseudomonas Aeruginosa*. 46<sup>th</sup> ICAAC. San Francisco, CA September 2006
13. P Amrutkar, T Dao, C Frost, LO Gentry, H Chen, JE Essien, and KW Garey. Economic Benefit of Appropriate Antibiotic Timing in Patients Undergoing Cardiovascular Surgery. 46<sup>th</sup> ICAAC. San Francisco, CA September 2006 (Latebreaker accepted abstract)
14. KJ Suda, KW Garey, C Bertram, LH Danziger. A Population Based Analysis to Assess the Incidence of *Clostridium difficile*-associated diarrhea in the USA. 47<sup>th</sup> ICAAC. Chicago, IL September 2007 (Podium presentation)
15. KW Garey, TK Dao-Tran, A Bellard, G Graham, ZD Jiang, MP Price, HL DuPont. A clinical risk index for *Clostridium difficile* associated diarrhea (CDAD) in hospitalized patients. 47<sup>th</sup> ICAAC. Chicago, IL September 2007
16. KW Garey, TK Dao-Tran, D Davies, LO Gentry. An "Antibiotic Time-out Protocol" significantly improves antibiotic prophylaxis timing in cardiovascular surgery patients. 47<sup>th</sup> ICAAC. Chicago, IL September 2007
17. Mora A, Salazar M, DuPont HL, and Garey KW. Narcotics as a Risk Factor for *Clostridium difficile* Infection (Podium presentation). 48<sup>th</sup> ICAAC/46<sup>th</sup> IDSA Annual Meeting, Washington DC, October 28, 2008
18. TC Nguyen, V Singh, K Ledesma, VH Tam, KW Garey. Antibiotic synergy against biofilm-embedded methicillin-resistant *Staphylococcus aureus* with reduced susceptibility to vancomycin. 109<sup>th</sup> ASM Annual Meeting. Philadelphia, PA. May 17-21, 2009
19. V Singh and KW Garey. Antimicrobial effects of esomeprazole against nosocomial biofilm producing organisms. 109<sup>th</sup> ASM Annual Meeting. Philadelphia, PA. May 17-21, 2009
20. V Arora, SS Ghantaji, N Ordonez, M Habib, R Hasbun, HL DuPont, and KW Garey. Risk factors for Mortality in Patients with *Clostridium difficile* Infection. 49<sup>th</sup> ICAAC. San Francisco, CA. Sept 12-15, 2009
21. F Le, KW Garey, M Salazar, SS Ghantaji, V Arora, VH Tam, and HL DuPont. Treatment of *Clostridium difficile* infection based on severity of illness. 49<sup>th</sup> ICAAC. San Francisco, CA. Sept 12-15, 2009
22. KW Garey, ZD Jiang, S Ghantaji, VH Tam, V Arora, and HL DuPont. A Common Polymorphism in the IL-8 Gene is Associated with Increased Risk for Recurrent *Clostridium difficile* Infection (Podium presentation). 49<sup>th</sup> ICAAC. San Francisco, CA. Sept 14, 2009
23. Shah DN, Yau RW, Weston J, Xu R, Salazar M, Palmer H, Garey KW. Changes to empiric antifungal therapy based on susceptibility testing results. 50<sup>th</sup> ICAAC, Boston MA. Sept 12-15, 2010.
24. Tran TC, Palmer HR, Weston JS, Hirsch EB, Shah DN, Cottreau JM, Tam VH, Garey KW. Evaluation of daptomycin PK/PD dose optimization protocol. 50<sup>th</sup> ICAAC, Boston MA. Sept 12-15, 2010. (Oral)
25. Shah DN, Yau RW, Weston J, Lasco T, Salazar M, Palmer H, Garey KW. Utility of fluconazole as de-escalation therapy in patients with fluconazole-susceptible candidemia. ACCP 2010 Annual Meeting, Austin, TX. October 17-20, 2010.
26. Gordon SM, Shah DN, Tran TC, Lasco T, Garey KW. Variations in time to blood culture positivity stratified by *Candida* species and fluconazole susceptibility. ACCP 2010 Annual Meeting, Austin, TX. October 17-20, 2010. (Oral)

27. Tran TC, Palmer HR, Weston JS, Hirsch EB, Shah DN, Cottreau JM, Tam VH, Garey KW. Daptomycin dose-effect relationship against vancomycin-resistant enterococcal bacteremia. ACCP 2010 Annual Meeting, Austin, TX. October 17-20, 2010.
28. De La Cabada J, Jiang ZD, Ghantaji SS, Garey KW, Lasco TM, Larocco M, Shah D, DuPont HL. Fecal lactoferrin in *Clostridium difficile* infection as a predictor of single bouts vs. recurrent disease (Podium presentation). IDSA 48<sup>th</sup> Annual Meeting, Vancouver, Canada. October 21-24, 2010
29. Xu R, Salazar M, Weston JS, Shah DN, Putney KS, Garey KW. Susceptibility of *Candida* species in patients with candidemia. SCCM's 40<sup>th</sup> Critical Care Congress, San Diego, CA. January 16-18, 2011.
30. W Santimaleeworagun, J Christensen, V Singh, DN Shah, KT Chang , VH Tam, and KW Garey Molecular epidemiology of *Clostridium difficile* and prevalence of the NAP-1 strain among patients admitted to a general and a private hospital in Houston, Texas USA. 21<sup>st</sup> ECCMID / 27<sup>th</sup> ICC meeting, Milan, Italy. May 7-10, 2011
31. KW Garey, S Ghantaji, D Shah, M Habib, V Arora, ZD Jiang, H DuPont. A randomised, double-blind, placebo-controlled pilot study to assess the effect of rifaximin "chaser" to prevent recurrent diarrhoea in patients with *Clostridium difficile* infection. 21<sup>st</sup> ECCMID / 27<sup>th</sup> ICC meeting, Milan, Italy. May 7-10, 2011
32. D Shah, R Yau, J Weston, T Lasco, M Salazar, H Palmer, KW Garey. Pre-exposure to antifungals as a risk factor for fluconazole-non-susceptible *Candida* species in hospitalized patients with candidemia. 21<sup>st</sup> ECCMID / 27<sup>th</sup> ICC meeting, Milan, Italy. May 7-10, 2011
33. Shah DN, Koo HL, Lasco TM, Palmer HR, Garey KW. Assessment of attributable mortality rate of candidemia in candidemia pts with inpatient mortality. 51<sup>st</sup> ICAAC, Chicago, IL. Sept 17-20, 2011
34. Shah DN, Dima-ala A, Dolormente K, Arora V, Garey KW. Incidence of antibiotic-associated diarrhea in hospitalized patients given broad spectrum antibiotics. 51<sup>st</sup> ICAAC, Chicago, IL. Sept 17-20, 2011
35. V Arora, V Singh, W Wang, KW Garey. A Novel Quantitative Bioassay for *Clostridium difficile* Toxins (oral). 51<sup>st</sup> ICAAC, Chicago, IL. Sept 17-20, 2011
36. CGM Jardin, HR Palmer, F Le, ND Beyda, KW Garey. Assessment of Treatment Patterns and Patient Outcomes Pre- Versus Post-Implementation of a Severity-Based *Clostridium difficile* infection (CDI) Treatment Policy (oral). 51<sup>st</sup> ICAAC, Chicago, IL. Sept 17-20, 2011
37. AB Sevin, SE Michaud, HR Palmer, FR Zabaneh, EV Catrett, MF Price, LO Gentry, KW Garey. Weight Based Vancomycin Dosing for Coronary Artery Bypass Graft Patients (oral). 51<sup>st</sup> ICAAC, Chicago, IL. Sept 17-20, 2011
38. Grimes CZ, Shah DN, Koo HL, DuPont HL, Garey KW. Validity of recommended criteria for attributable mortality associated with *Clostridium difficile* Infection. IDSA 49<sup>th</sup> Annual Meeting, Boston, MA. October 20-23, 2011.
39. Garey KW, Shah DN, Habib M, Lasco T. Clinical assessment of nanotechnology and miniaturized magnetic resonance to detect candidemia in hospitalized patients. IDSA 49<sup>th</sup> Annual Meeting, Boston, MA. October 20-23, 2011.
40. Shah DN, Kilic A, Alam MJ, Darkoh C, De La Cabada J, Jiang ZD, DuPont HL, Garey KW. Characterization of *Clostridium difficile* strains from patients with mortality attributed to *Clostridium difficile* infection. Anaerobe 2012, San Francisco, CA. June 27-July 1, 2012.
41. Kilic A, Alam MJ, Tisdell NT, Shah DN, Yapar M, Lasco TM, Garey KW. Development and evaluation of a double multiplex real-time PCR method for detection of the *Clostridium difficile* toxin A, toxin B and binary toxin A. Anaerobe 2012, San Francisco, CA. June 27-July 1, 2012
42. Shah DN, Panchumarthi VK, Al-Jashaami LS, Koo HL, DuPont HL, Garey KW. Clinical characteristics of hospitalized patients with community-associated versus non-community-associated *Clostridium difficile* infection. 52<sup>nd</sup> ICAAC, San Francisco, CA. September 9-12, 2012.

43. Shah DN, Bhatt NS, Chen E, Koo HL, DuPont HL, Garey KW. A risk index based on comorbid conditions and disease severity to predict mortality in patients with *Clostridium difficile* infection. 52<sup>nd</sup> ICAAC, San Francisco, CA. September 9-12, 2012.
44. Kilic A, Alam MJ, Tisdell NT, Shah DN, Yapar M, Lasco TM, Garey KW. Development and evaluation of a double multiplex real-time PCR method for simultaneous identification and toxigenic type characterization of *C. difficile* from stool samples. 52<sup>nd</sup> ICAAC, San Francisco, CA. September 9-12, 2012.
45. Beyda ND, Kilic A, Alam MJ, Lasco TM, Garey KW. Molecular epidemiology and fluconazole susceptibility of *Candida glabrata* candidemia at a university-affiliated medical center. 52<sup>nd</sup> ICAAC – September 9-12, 2012, San Francisco, CA
46. Beyda ND, Shah DN, Cottreau J, Salazar M, Frost C, Lasco TM, Garey KW. Aggregate measures of antifungal use in hospitalized patients: Defined daily doses vs. antimicrobial days. IDWeek 2012 – October 17-21, 2012 San Diego, CA
47. ND Beyda, MJ Alam, KW Garey. Comparison of the T2 Biosystems Candida Assay and Automated Blood Culture in the Detection of *Candida* species Using Simulated Blood Cultures. ASM 113<sup>th</sup> General Meeting. May 20, 2013 Denver, CO
48. Aitken SL, Alam MJ, Garey KW. Environmental prevalence of *Clostridium difficile* at a university-affiliated teaching hospital in Houston, Texas. ASM 113<sup>th</sup> General Meeting. May 20, 2013 Denver, CO
49. MJ Alam, A Anu, KW Garey. Environmental Investigation of Community Household Contamination of *Clostridium difficile*. ASM 113<sup>th</sup> General Meeting. Denver, CO May 20, 2013
50. Aitken SL, Shah DN, Davis B, Nurshazwani W, Savidge T, DuPont HL, Garey KW. Use of zolpidem, a  $\gamma$ -amino butyric acid receptor agonist, and risk of acquiring *Clostridium difficile* infection. Abstract #2087 (oral presentation). 53<sup>rd</sup> ICAAC September 10-13, 2013, Denver, CO
51. Aitken SL, Joseph TB, Shah DN, Palmer HR, Lasco T, DuPont HL, Garey KW. Healthcare resource utilization in patients with recurrent *Clostridium difficile* infection. Abstract #2154 (oral presentation). 53<sup>rd</sup> ICAAC September 10-13, 2013, Denver, CO
52. Aitken SL, Beyda ND, Shah DN, Lasco T, Koo H, Garey KW. Clinical practice patterns in hospitalized patients at risk for candidemia: implications for rapid *Candida* species detection methods. Abstract #2488 (poster presentation). 53<sup>rd</sup> ICAAC September 10-13, 2013, Denver, CO
53. Beyda ND, John J, Alam MJ, Kilic A, Lasco TM, Garey KW. Echinocandin resistant *Candida glabrata*; risk factors and outcomes in patients with Candidemia. Abstract M-220 (poster walk). 53<sup>rd</sup> ICAAC September 10-13, 2013, Denver, CO
54. Jacobs DM, Asuphon O, Beyda ND, Alam MJ, Garey KW. Host factors for *Candida* colonization in critically ill patients. Abstract #2441 (poster presentation). 53<sup>rd</sup> ICAAC September 10-13, 2013, Denver, CO
55. Shah DN, Esquer Z, Ruelas DJ, DuPont HL, Garey KW. Outcome of Patients with *Clostridium difficile* Infection in a Large Tertiary Care Hospital in Houston. Abstract #2422 (poster presentation). 53<sup>rd</sup> ICAAC September 10-13, 2013, Denver, CO
56. Shah, DN, Laine ME, Wei W, Smith LC, Palmer HR, Musick WL, Garey KW. Treatment Patterns in Hospitalized Patients with Multiple *Clostridium difficile* Infection Recurrences and Assessment of Ongoing Use of Pharmacologic Risk Factors. Abstract #1903 (poster presentation). 53<sup>rd</sup> ICAAC September 10-13, 2013, Denver, CO

## RESEARCH GRANTS

### Current Federal Research Support

NIH/NIAID U19 AI144297 The Genomics and Antagonism of Pathobiont Colonization	Garey (UH Site PI)	04/2019-03/2022
NIH/NIAID 1UO1 AI24290-01 Decoding antibiotic-induced susceptibility to <i>Clostridium difficile</i> infection.	Garey (MPI)	09/2016-08/2022
NIH/NIAID R01 AI139261 Decoding the clinical impact of the recent evolution of metronidazole resistance on <i>Clostridium difficile</i> infection	Garey (UH Site PI)	08/2019-07/2022
NIH/NIAID 1P01AI152999-01 Dynamics of Colonization and Infection by Multidrug-resistant Pathogens in Immunocompromised and Critically Ill Patients (DYNAMITE)	Garey (UH Site PI)	03/2021-03/2025
NIH/NIAID R44 AI136176-02 A Serological Assay for Neutralizing Antitoxin Response in Patients with <i>Clostridioides difficile</i> Infection (Phase II)	Garey (MPI)	07/2021-07/2024
NIH/NIAID T32AI141349 TMC Training Program in AMR – Taryn Eubank	Garey (UH Site PI)	07/01/2021-07/01/2023

### Past research support, Investigator initiated grants

Year	Project title Funding source	Amount	Role	Type
FEDERAL GRANTS				
2012	Facilitating reporting of antimicrobial use to the National Healthcare Safety Network (NHSN) Centers for Disease Control and Prevention (CDC)	\$251,791		Co-PI
2014	A clinical risk index for primary <i>Clostridium difficile</i> infection CDC via the Texas Dept of State Health Services	\$198,136		PI
2014	Community Household Environmental Studies on Potentially Pathogenic <i>Clostridium Difficile</i> CDC via the Texas Dept of State Health Services	\$294,938		PI
2015	State-wide Assessment of Environmental <i>C. difficile</i> colonization CDC via Texas Dept of State Health Services	\$1,222,201		PI
2016	CRE and <i>C. difficile</i> surveillance CDC via Houston Health Department	\$280,274		PI
2018	Relationships Between Heme Metabolism, Metronidazole Resistance and Treatment Failure in <i>Clostridium difficile</i> Infection NIH/NIAID 1R56AI126881-01A1	\$112,875		UH-PI
2020	Ultrasensitive <i>C. difficile</i> toxin measurement for diagnosis and outcome prediction NIH/NIAID, R01 AI116596	\$186,832		UH-PI

## FOUNDATION GRANTS

2002	A Houston-Based Medicine Cabinet Cleanup Campaign National Association of Chain Drug Stores	\$2,000	PI	Foundation
2005	Type III Secretory Proteins and <i>Pseudomonas aeruginosa</i> Society of Infectious Diseases Pharmacists	\$15,000	PI	Foundation
2005	The Role of Type III Secretory Proteins and Inadequate Antimicrobial Therapy to Predict Mortality American Association of Colleges of Pharmacy	\$10,000	PI	Foundation
2007	Host cytokine polymorphism determinants for <i>Clostridium difficile</i> -associated diarrhea Society of Infectious Diseases Pharmacists	\$25,000	PI	Foundation
2010	A cell culture model system for evaluating biomarkers of severe <i>Clostridium difficile</i> disease Grants to Enhance and Advance Research	\$23,233	PI	State

## FOR-PROFIT, INVESTIGATOR INITIATED GRANTS

2002	A 5-year Analysis of Antimicrobial Susceptibility Patterns and Hospital Demographics in Houston University of Houston New Investigator Grant	\$6,000	PI	State
2002	Clinical, Microbiological, and Economic Outcomes of ICU Patients with Invasive Fungal Infections: Merck	\$60,000	PI	For-profit
2003	Biofilm inhibition by clarithromycin for the prevention and treatment of infection Abbott	\$50,000	PI	For-profit
2004	Clinical and Economic Outcomes of Patients with Candidemia Merck	\$87,420	PI	For-profit
2004	Prevalence of AmpC in clinical strains of <i>P. aeruginosa</i> and its impact on clinical outcomes Astra Zeneca Pharmaceuticals	\$107,048	co-I	For-profit
2006	Activity of esomeprazole against nosocomial biofilm producing organisms Astra Zeneca Pharmaceuticals	\$75,000	PI	For-profit
2006	Long-term rifaximin therapy vs. comparators to prevent relapsing <i>Clostridium difficile</i> infection Salix	\$77,375	PI	For-profit
2006	Prevalence of AmpC in clinical strains of <i>Pseudomonas aeruginosa</i> and clinical outcomes Astra Zeneca Pharmaceuticals	\$97,420	co-I	For-profit
2007	Risk index to predict recurrent <i>Clostridium difficile</i> -associated diarrhea Viropharma	\$112,284	PI	For-profit
2007	Host inflammatory and immune response to <i>Clostridium difficile</i> -associated Diarrhea Roderick D. MacDonald Research Fund	\$50,000	PI	Foundation
2009	Clinical outcomes in candidemia patients based on in vitro susceptibility Merck	\$45,000	PI	For-profit
2010	Effectiveness and outcomes associated with a daptomycin PK/PD dose optimization protocol Cubist	\$77,750	PI	For-profit

2010	Susceptibility and recurrence of <i>Candida</i> species before and after a formulary change Merck	\$80,140	PI	For-profit
2011	A contemporary analysis of echinocandin use Merck	\$94,015	PI	For-profit
2011	Inhibition of Host Inflammatory Response of <i>C. difficile</i> toxins by Monoclonal antibodies Merck	\$76,010	PI	For-profit
2011	Direct Medical and Nonmedical Costs of Recurrent <i>Clostridium difficile</i> infection Merck	\$190,757	PI	For-profit
2012	Incidence and risk factors for breakthrough candidemia in hospitalized patients Astellas, Inc	\$87,750	PI	For-profit
2012	Protocol for the Collection and Handling of Whole Blood Specimens for T2Candida Assay T2 Biosystems	\$80,000	PI	For-profit
2012	Detecting Infections Rapidly and Easily for Candidemia Trial (DIRECT Study) T2 Biosystems	\$51,000	PI	For-profit
2012	Incidence, risk factors and outcomes associated with FKS mutants in patients with <i>C. glabrata</i> Astellas, Inc	\$115,532	PI	For-profit
2012	LOD comparison of Bactec vs Beta-7 T2 Biosystems	\$25,000	Co-PI	For-profit
2012	T2 Bacterial Assay Development: Protocol for the Collection of Whole Blood Specimens T2 Biosystems	\$40,000	PI	For-profit
2013	Development and validation of Clostridium difficile infection health-related quality of life instrument Merck	\$133,344	PI	For-profit
2013	Prospective Collection and Testing of Un-Spiked and Candida-Spiked Fresh Whole Blood T2 Biosystems	\$185,250	Co-PI	For-profit
2013	Pathomicrobiologic characteristics of <i>Clostridium difficile</i> recurrence Merck	\$79,177	PI	For-profit
2013	Impact of CB-183,315 exposure on in vitro inflammatory response Cubist	\$97,316	PI	For-profit
2013	Innate inflammatory response and immunopharmacologic activity against <i>Candida glabrata</i> Astellas, Inc	\$116,761	Co-PI	For-profit
2014	Humanistic Outcomes Associated with <i>Clostridium difficile</i> infection Cubist	\$127,345	PI	For-profit
2014	Detecting Infections Rapidly and Easily for Bacteremia Trial (DIREBT Study) T2 Biosystems	\$53,125	PI	For-profit
2014	Clinical Outcomes Associated with Pre-emptive Cytomegalovirus Therapy Merck & Co., Inc	\$158,115	PI	For-profit
2015	Antifungals on the Performance of the T2Candida Assay vs. Automated Blood Culture T2 Biosystems	\$24,531	Co-PI	For-profit

2015	Real-world Use of Crofelemer in HIV Patients on HAART Salix Pharmaceuticals	\$85,934	Co-I	For-profit
2015	Patterns of Healthcare Resource Utilization in Patients with C difficile infections Merck & Co.	\$120,743	PI	For-profit
2015	Accelerate System for Identification and Susceptibility of Gram-positive Bacteria Accelerate Diagnostics	\$60,787	PI	For-profit
2015	Collection and Handling of Stool Specimens for Techlab Assay Development TechLab, Inc	\$62,400	PI	For-profit
2015	Healthcare Resource Utilization in Patients with C difficile infections Merck & Co	\$113,651	PI	For-profit
2016	Environmental Contamination of Healthcare Associated Pathogens via Shoe Bottoms Healthysole	\$40,569	PI	For-profit
2016	How does fidaxomicin inhibit spore and toxin production; a mechanistic study Merck & Co.	\$123,514	PI	For-profit
2016	Defining the Unmet Medical Need of Novel Echinocandins; a Real-World Study Cidara Therapeutics, Inc	\$65,232	PI	For-profit
2016	SMT19969 Inhibition toxin production and cell division Summit Pharmaceuticals	\$88,123	PI	For-profit
2018	<i>In vitro</i> and pharmacologic properties of eravacycline against <i>C. difficile</i> Tetraphase Pharmaceuticals	\$94,021	PI	For-profit
2018	<i>In vitro</i> and pharmacologic properties of omadacycline against <i>C. difficile</i> Paratek Pharmaceuticals	\$94,021	PI	For-profit
2018	Phase I Microbiome Studies of ACX-362E Acurx Pharmaceuticals	\$278,829	PI	For-profit
2019	Effect of ibezapolstat on C. difficile spores and toxins Acurx Pharmaceuticals	\$120,756	PI	For-profit
2020	Microbiome studies of omadacycline Paratek Pharmaceuticals	\$204,725	PI	For-profit
2020	Ridinilazole mechanism of action Summit Pharmaceuticals	\$146,250	PI	For-profit
2021	Phase 2 studies of ibezapolstat Acurx Pharmaceuticals	\$249,987	PI	For-profit

Contracts / Industry-sponsored trials

Year	Project title Funding source	Amount	Role	Type
2004	Collaborative Exchange of Antifungal Research (CLEARII) Enzon pharmaceuticals	\$90,000	PI	For-profit

2014 A randomized, double-blind, active controlled study of CB-183,315  
Cubist Pharmaceuticals \$83,076

Sponsored Fellowships / Residencies / Minisabbatical:

<b>Year</b>	<b>Title Sponsor</b>	<b>Amount</b>
2005	Minority Undergraduate Research Fellow (MURF) American Society of Microbiology	\$3,500
2005	Summer Undergraduate Research Fellow (SURF) University of Houston Honors College	\$2,850
2005	Clinical Pharmacy Minisabbatical Program American College of Clinical Pharmacy (ACCP)	\$2,750
2009	Infectious Diseases Specialty Residency Society of Infectious Diseases Pharmacists	\$40,000
2011	Infectious Diseases Specialty Residency Society of Infectious Diseases Pharmacists	\$40,000

Awarded Educational Grants

Pfizer Pharmaceuticals (2001)	\$2,500
Ortho-McNeil Pharmaceuticals (2002)	\$5,000
Cardinal Health Pharmacy Provider Services (2004)	\$10,000
Viropharma, Inc (2006)	\$5,000
Viropharma, Inc (2007)	\$5,000
Viropharma, Inc (2008)	\$5,000
Viropharma, Inc (2009)	\$5,000
Salix Pharmaceuticals (2008)	\$5,000
Salix Pharmaceuticals (2009)	\$5,000

**INVITED NATIONAL / INTERNATIONAL PRESENTATIONS**

**2002**

- Current Issue and Trends in Gram Positive Bacterial Infections. Infectious Disease Pharmacotherapy Symposium, Lee Garden Plaza Hotel, Hat-Yai, Songkla, Thailand. March 26-28 2002
- Handheld devices/PDAs: The future of pharmacy documentation. 54<sup>th</sup> Annual Meeting of the Texas Society of Health System Pharmacists (TSHP), Galveston, TX. April 15, 2002

**2003**

- Immunomodulatory effects of macrolides. University of Houston College of Pharmacy Infectious Disease Pharmacotherapy Symposium 2003, Houston, TX. May 30, 2003
- Pharmacoepidemiology: A Primer. 2003 Annual Meeting of the American College of Clinical Pharmacy, Atlanta, GA. November 2-5, 2003

**2004**

- Trends in Infectious Disease Pharmacotherapy. Lee Garden Plaza Hotel, Hat-Yai, Songkla, Thailand. March 22-26, 2004



- Improving Precepting Skills. Texas Society of Health-System Pharmacists 56th Annual Meeting. Houston, TX. April 16, 2004
  - Common Challenges in Clinical Trial Data Interpretation: A Panel Discussion. 2004 Annual Meeting of the American College of Clinical Pharmacy. Dallas, TX. October 24-27, 2004.
  - Overview of surgical site infections and prevention strategies. Gulf Coast Society of Health System Pharmacists Annual Meeting, Houston, TX. November 6, 2004
  - Treatment of Methicillin-resistant *Staphylococcus aureus* infections: Old & Reliable versus New & Improved. 2004 ASHP Midyear Clinical Meeting. Orlando, FL. December 8, 2004
- 2005**
- Antibiotic Surgical Prophylaxis: Timing is Everything. 2005 ASHP Midyear Clinical Meeting. Las Vegas, NV. December 6, 2005
- 2006**
- Infectious Disease. 58<sup>th</sup> Annual Meeting of the Texas Society of Health System Pharmacists (TSHP), Galveston, TX. April 2, 2006
  - Infectious disease update and Bacterial resistance. Infectious Disease Pharmacotherapy Symposium, Lee Garden Plaza Hotel, Hat-Yai, Songkla, Thailand. May 1-5 2006
  - Methicillin-resistant *S. aureus*. A treatment option debate. American College of Clinical Pharmacy New York State Chapter Annual Meeting. Albany, NY. October 6, 2006
  - Hot Topics in Infectious Diseases (Co-moderator and presenter): Hypervirulent *Clostridium difficile*. 2006 ASHP Midyear Clinical Meeting. Anaheim, CA. December 7, 2006
- 2007**
- An update on *Clostridium difficile*. Arizona Pharmacy Alliance Health Systems Academy Conference. Phoenix, AZ. April 14, 2007
  - In case you missed it: Top Ten Papers in Medicine, 2007 (Moderator and presenter). ASHP Midyear Clinical Meeting. Las Vegas, NV. December 5, 2007
  - Debates in Therapeutics: Should vancomycin be considered first line therapy for *Clostridium difficile* infections? ASHP Midyear Clinical Meeting. Las Vegas, NV. December 5, 2007
- 2008**
- Prevention and Treatment Strategies for *Clostridium difficile*-associated Diarrhea. Society of Critical Care Medicine Pharmacotherapy in Critical Illness, Philadelphia, PA. March 28-29, 2008
  - Update on Treatment of Fungal Infections in the Critically Ill Patient. Society of Critical Care Medicine Pharmacotherapy in Critical Illness, Philadelphia, PA. March 28-29, 2008
  - Optimal empiric therapy for candidemia. 5<sup>th</sup> Annual Critical Care Pharmacotherapy Symposium Boston. MA April 4<sup>th</sup> 2008
  - Top Ten Papers in Infectious Diseases. 32<sup>nd</sup> Annual Symposium on Rational Therapeutics: A Seminar in General Medicine. Anaheim, CA. July 13, 2008
  - Why You Buggin? ID Update for the Frontline Pharmacist. ASHP's Great eXpectations Conference for New Practitioners 2008. New York, NY. August 22-24, 2008
  - In case you missed it: Top Papers in Medicine, 2008 (Moderator and presenter). ASHP Midyear Clinical Meeting. Orlando, FL. December 10, 2008
- 2009**
- Bugs vs. Drugs: Infectious Disease Update. APhA Annual Meeting. San Antonio, TX. April 3, 2009
  - *C. difficile* update. University of Houston College of Pharmacy Infectious Disease Pharmacotherapy Symposium 2009, Houston, TX. May 1, 2009
  - Don't Bug Me! Ramping Up an Antimicrobial Stewardship Program (Moderator and presenter). ASHP Summer Meeting. Rosemont, IL. June 14-17, 2009
  - Clinical Update for Managers (Moderator). ASHP Summer Meeting. Rosemont, IL. June 14-17, 2009
  - Most Influential Publications in Infectious Diseases Pharmacotherapy, 2008-2009. 49<sup>th</sup> ICAAC. San Francisco, CA. September 11 2009
  - Keeping up with the Guidelines: Infectious Diseases Guidelines (Moderator and presenter). ASHP Midyear Clinical Meeting, Las Vegas NV. Dec 8, 2009

- In case you missed it: Top Papers in Medicine, 2009 (Moderator and presenter). ASHP Midyear Clinical Meeting, Las Vegas NV. Dec 8, 2009
- 2010**
- Germ nation: Infectious Disease Update. APhA Annual Meeting. Washington, DC. March 14, 2010
  - Infectious Diseases Update in Texas: From Bench to Bedside to Beyond (Moderator and presenter). 62<sup>th</sup> Annual Meeting of the Texas Society of Health System Pharmacists (TSHP), Galveston, TX. April 9, 2010
  - Germ Nation: Infectious Disease Update 2010 (Encore), APhA Live. Memphis, TN. October 16, 2010
- 2011**
- Preventing Health Care-Associated Infections. APhA Annual Meeting. Seattle, WA March 28, 2011
  - Update on Fidaxomicin. Annual Meeting of the Society of Infectious Diseases Pharmacist. Chicago, IL September 16, 2011
  - Guideline and Literature Update in Infectious Diseases 2011 (Moderator and Presenter). ASHP Midyear Clinical Meeting, New Orleans LA. Dec 7, 2011
- 2012**
- Infectious Diseases Update 2012. APhA Annual Meeting. New Orleans, LA. March 11, 2011
  - Fidaxomicin and its place in the management of *C. difficile* infection. Greater New York Hospital Association. Webinar. Mar 14, 2012
  - Using Antimicrobial Stewardship Programs to Optimize the Use of New Anti-infectives. ASHP Advantage Seminar Series. Presented at the Annual meetings of:
    - Virginia Society of Health Systems Pharmacists, Wintergreen, VA. April 20, 2012
    - Louisiana Society of Health-Systems Pharmacists, New Orleans, LA May 26, 2012
    - Idaho Society of Health-Systems Pharmacists, Sun Valley, ID Sept 30, 2012
    - New Hampshire Society of Health-Systems Pharmacists, Concord, NH Oct 8, 2012
    - Georgia Society of Health-Systems Pharmacists, Young Harris, GA Oct 19, 2012
  - Surgical Prophylaxis: Dosage Recommendations, Tissue Penetration, and Pharmacokinetic Considerations. 52nd ICAAC. San Francisco, CA Sept 10, 2012
  - Alternative treatments for *Clostridium difficile* associated diarrhea. ACCP Annual Meeting, Hollywood, FL Oct 22, 2012
  - *Clostridium difficile* infection: New drugs and new strategies. ASHP Midyear Clinical Meeting, Las Vegas NV. Dec 4, 2012
- 2013**
- Infectious Diseases Update 2013. APhA Annual Meeting. Los Angeles, CA. March 3, 2013
  - What's the Poop on *Clostridium difficile* Infection in 2013. MAD-ID 2013 Annual Meeting. Orlando, FL May 9, 2013
  - The Role of Laboratory Testing in Managing Fungal Infections. MAD-ID 2013 Annual Meeting. Orlando, FL May 11, 2013
  - Trans-Atlantic Task Force on Antimicrobial Resistance (TATFAR). European Center for Disease Prevention and Control (ECDC). Stockholm, Sweden June 17-19, 2013
  - Mentoring pharmacy residents to successful clinical faculty. AACP Annual Meeting. Chicago, IL July 15, 2013
  - Appropriate dosing of antifungals. Trends in Medical Mycology (TIMM). Copenhagen, Denmark. October 12, 2013
  - Update on *C. difficile*. ASHP Midyear Meeting. Orlando, Florida. December 11, 2013
- 2014**
- Update in Infectious Diseases. ASHP Annual Meeting. Las Vegas, NV. June 1, 2014
  - New treatment strategies for *C. difficile*. Anaerobe 2014 Congress. Chicago, IL July 1, 2014
  - Antibiotic management – Is it time to think differently with *Clostridium difficile*. ICAAC Workshop, September 5, 2014. Washington, DC

- Management of Invasive Fungal Infections: Applying Evidence-based Strategies and Individualizing Antifungal Therapy. ASHP Midyear December 10, 2014. Anaheim, CA

## 2015

- Tips for a successful research career. Temple University School of Pharmacy Research Day. February 20, 2015. Philadelphia, PA
- *Clostridium difficile*. Ongoing research and implications for best practice. Texas Healthcare Safety Conference. August 21, 2015. Bay City, TX
- Updates in the treatment of *C. difficile*. ID-Week 2015. October 10, 2015. San Diego, CA
- Updates in the treatment of *C. difficile*. ASHP Midyear Clinical Meeting 2015. December 10, 2015. New Orleans, LA

## 2016

- Key Considerations for Improving Patient Outcomes with Antimicrobial Stewardship Programs. Idaho Society of Health Systems Pharmacists Annual meeting. March 6, 2016. Boise ID; Encore presentations: West Virginia Society of Health System Pharmacist. April 1, 2016 and Montana Society of Health System Pharmacists. April 30, 2016
- Antimicrobial stewardship. Vancouver Island Healthcare System Grand Rounds, Victoria, BC Canada. September 14, 2016
- Update on New Antibiotics. New Mexico Society of Health Systems Pharmacists Annual Meeting. October 3, 2016
- Environmental evaluation of *C. difficile*. APIC Austin Chapter annual meeting. Austin, TX October 20, 2016
- Update on *C. difficile*; New Drugs and new bugs. UT Tyler Health Science Center Grand Rounds, Tyler, Texas November 18, 2016
- Making Antimicrobial Stewardship a Priority: Integrating Evidence-based Practices and Guidelines to Improve Antimicrobial Use. 2016 ASHP Annual Midyear Clinical Meeting. Las Vegas, NV Dec 7, 2016

## 2017

- Consequences of recurrent CDI on Patients & Healthcare facilities. 22<sup>nd</sup> Congress of the European Association of Hospital Pharmacists, Cannes France March 23, 2017
- Translational research involving *Clostridium difficile*: Blending the host and the bug. Montana State University Frank M. Nelson Distinguished Lecture Series, March 28, 2017
- Tips for a Successful Pharmacy Career. West Virginia University Rho Chi Bergy Lecture, Morgantown, WV, April 9, 2017
- Antibiotic-related Changes in the Microbiome and *Clostridium difficile* infection. Making a Difference in Infectious Diseases (MAD-ID), Orlando, FL May 11, 2017
- Texas-wide Surveillance of *Clostridium difficile*. Alliance of Professional in Infection Control TX Annual meeting, Temple TX. Oct 9, 2017.
- A strawberry-flavored pearl for *Clostridium difficile* infection. ASHP Clinical Meeting 2017, Orlando, FL Dec 6, 2017.

## 2018

- An update on *C. difficile* Infection: The guidelines have arrived. Oregon Health Science University Grand Rounds, Portland, OR. March 13, 2018
- New updates on *C. difficile* infection. UTMB Pathology Grand Rounds, Galveston, TX April 16, 2018
- An update on the *C. difficile* guidelines and fecal microbiota transplantation. ASHP NY Chapter (webinar). May 1, 2018
- Early emergence of epidemic *Clostridioides difficile* ribotype 027 lineages in the US. NIH U01 Systems Biology meeting, La Jolla, CA Sept 14, 2018
- Group Leader, ID-Week 2018 Poster Board Session: *C. difficile*. San Francisco, CA Oct 4, 2018
- Best Practice Update on *C. difficile*. ASHP Clinical Meeting 2018, Anaheim, CA Dec 3, 2018.

## 2019

- An integrated curriculum to prepare pharmacy students at the University of Houston. 139<sup>th</sup> Annual Meeting of the Pharmaceutical Society of Japan. Chiba, Japan. March 20, 2019
- *C. difficile* infection. Improving provider-patient communication to hasten diagnosis and treatment. Osteopathic Physicians and Surgeons of California Society 30<sup>th</sup> Annual Fall Conference. Monterey, CA Sept 22, 2019. Encore presentations: Maryland State meeting, Gaithersburg MD, Oct 6, 2019 and Arizona State meeting, Tucson, AZ Nov 3, 2019
- One Health Perspective on Healthcare Acquired Infections. Grand Rounds, University of Tennessee Health Science Center, Memphis TN Nov 7, 2019
- Strategies for Prevention and Treatment of Recurrent *C. difficile* Infection. 2019 ASHP Midyear Clinical Meeting, Las Vegas, NV Dec 9, 2019
- Recognizing, treating, and preventing recurrence of *Clostridium difficile* infection in patients with IBD. 2019 Annual AIBD Conference, Orlando, FL Dec 14, 2019

## 2020

- An update on C diff diagnostics. 3<sup>rd</sup> Annual Center for Antimicrobial Resistance and Microbial Genomics (CARMiG) Annual meeting. Houston, TX Jan 24, 2020
- Early functional metagenomics changes associated with the novel antibiotic, Ibezapolstat. Anaerobe 2020 Biannual meeting, Virtual. Jul 23, 2020
- Importance of fecal microbiota transplantation vs. pharmacotherapy in the treatment of C diff infection (Debate style). IDWeek 2020. Virtual Oct 23, 2020

## 2021

- *C. difficile* diagnosis and treatment. Grand Rounds. Duke Medical School Division of Infectious Disease (virtual). April 12, 2021
- An update on *C. difficile* infection. Grand Rounds. Houston Methodist Hospital (virtual). May 4<sup>th</sup>, 2021

## 2022

- *C. difficile* infection. 5<sup>th</sup> Annual Center for Antimicrobial Resistance and Microbial Genomics (CARMiG) Annual meeting. Houston, TX Jan 23, 2022
- Return of the MDROs: Focus on *C. difficile* infection. Texas Healthcare Safety Conference (virtual). May 19, 2022
- Past, Present, and Future of *C. difficile* infection. 24<sup>th</sup> Annual MAD-ID, Orlando, FL May 20, 2022