

Navaneeth Narayanan, PharmD, MPH, BCIDP

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PRIMARY POSITION & TITLE

Clinical Associate Professor

Specialty: *Infectious Diseases*

Department of Pharmacy Practice and Administration
Rutgers University, Ernest Mario School of Pharmacy
Piscataway, New Jersey

SECONDARY POSITIONS & TITLES

Infectious Diseases Clinical Pharmacist

Robert Wood Johnson University Hospital–New Brunswick
RWJBarnabas Health
New Brunswick, New Jersey

Adjunct Associate Professor

Division of Allergy, Immunology, and Infectious Diseases
Department of Medicine
Rutgers Robert Wood Johnson Medical School
New Brunswick, New Jersey

Adjunct Faculty & Tuberculosis Consultant

Global Tuberculosis Institute
Department of Medicine
Rutgers New Jersey Medical School
Newark, New Jersey

EDUCATION & TRAINING

January 2024 – Present

Microbiome Research & Analysis Training

- RUMP Microbiome Analysis Workshop – January 2024
- Microbiome and Health (Rutgers Course: 16:682:576) – Spring 2024
- Columbia University Microbiome Boot Camp – June 2024 (*anticipated*)

August 2022 – Present

Master of Science (MS) in Pharmacometrics

University of Maryland School of Pharmacy
Center for Translational Medicine
Baltimore, Maryland

September 2016 – January 2019

Master of Public Health (MPH)

Concentration: Epidemiology
Rutgers School of Public Health
Piscataway, New Jersey

September 2013 – June 2014

Global Health Clinical Scholars Program

University of California, San Francisco Global Health Sciences
Program Director: Chris Stewart, MD
San Francisco, California

July 2013 – June 2014

PGY-2 Specialized Residency, Infectious Diseases

University of California, San Francisco Medical Center & School of Pharmacy
Program Director: Conan MacDougall, PharmD, MAS, BCPS, BCIDP
San Francisco, California

EDUCATION & TRAINING *(continued)*

July 2012 – June 2013	PGY-1 Pharmacy Practice Residency Hunterdon Medical Center Flemington, New Jersey
September 2006 – May 2012	Doctor of Pharmacy (PharmD) <i>Summa Cum Laude</i> Rutgers University, Ernest Mario School of Pharmacy Piscataway, New Jersey

LICENSURE & CERTIFICATION

December 2019 – Present	Board Certified Infectious Diseases Pharmacist (BCIDP) Credential No. B11100816 Board of Pharmaceutical Specialties
November 2013	Teaching Certificate University of California, San Francisco School of Pharmacy
November 2013 – December 2020	Board Certified Pharmacotherapy Specialist (BCPS) Credential No. 3131394 Board of Pharmaceutical Specialties
October 2013 – Present	California Pharmacist Licensure License No. 70125 California State Board of Pharmacy
June 2013	Teaching Certificate Rutgers University, Ernest Mario School of Pharmacy
December 2012 – Present	Immunization Certification License No. 28RJ04561 New Jersey Board of Pharmacy
September 2012 – Present	New Jersey Pharmacist Licensure License No. 28RI03525100 New Jersey Board of Pharmacy
March 2011 – Present	Basic Life Support for Healthcare Providers American Heart Association
October 2010	Pharmacy-Based Immunization Delivery Certificate American Pharmacists Association

ACADEMIC POSITIONS

March 2021 – Present	Faculty Center for Pharmaceutical Translational Research and Education (CEPTRE) Rutgers University, Ernest Mario School of Pharmacy
November 2020 – Present	Faculty Rutgers University Microbiome Program (RUMP) Center for Advanced Biotechnology and Medicine Rutgers Robert Wood Johnson Medical School
July 2020 – Present	Clinical Associate Professor Department of Pharmacy Practice and Administration Rutgers University, Ernest Mario School of Pharmacy
July 2020 – Present	Adjunct Associate Professor Division of Infectious Diseases, Department of Medicine Rutgers Robert Wood Johnson Medical School

ACADEMIC POSITIONS *(continued)*

October 2018 – Present	Adjunct Faculty & Medical Consultant Global Tuberculosis Institute Department of Medicine, Rutgers New Jersey Medical School
December 2015 – Jun 2020	Adjunct Assistant Professor Division of Infectious Diseases, Department of Medicine Rutgers Robert Wood Johnson Medical School
July 2014 – June 2020	Clinical Assistant Professor Department of Pharmacy Practice and Administration Rutgers University, Ernest Mario School of Pharmacy

PROFESSIONAL/CLINICAL POSITIONS

July 2014 – Present	Infectious Diseases Clinical Pharmacist Robert Wood Johnson University Hospital–New Brunswick RWJBarnabas Health New Brunswick, New Jersey
December 2020 – June 2021	Pharmacist – COVID-19 Vaccine Support CVS Health, New Jersey
June 2012 – June 2013	Pharmacist Robert Wood Johnson University Hospital New Brunswick, New Jersey
June – August 2010	Clinical Operations Intern Forest Research Institute, Inc. Jersey City, New Jersey
May 2008 – May 2012	Pharmacy Technician Robert Wood Johnson University Hospital New Brunswick, New Jersey

HONORS & AWARDS

2024	Rho Chi Pharmacy Honor Society, Omicron Chapter University of Maryland School of Pharmacy
2020	Society of Scholars New Jersey Alliance for Clinical and Translational Science (NJ ACTS), CTSA Program Rutgers University/Princeton University/New Jersey Institute of Technology
2019	Stuart D. Cook Excellence in Research Award (MPH) Rutgers School of Public Health Delta Omega Honor Society in Public Health Rutgers School of Public Health
2016	Leaders in Faculty Diversity Award Committee to Advance our Common Purposes Rutgers, The State University of New Jersey
2014	Distinguished Service Award Rutgers University, Ernest Mario School of Pharmacy
2010	Rho Chi Pharmacy Honor Society, Alpha Eta Chapter Rutgers University, Ernest Mario School of Pharmacy

CLINICAL & PROFESSIONAL ACTIVITIES

CLINICAL ACTIVITIES

SUMMARY OF CLINICAL ACTIVITIES

I provide clinical consultation to the adult (general and oncology/transplant) and pediatric University Infectious Diseases (ID) services at Robert Wood Johnson University Hospital, as well as perform antimicrobial stewardship activities which include developing treatment protocols and guidelines, antimicrobial formulary management, and quality improvement metrics and research/projects. As the former Pharmacist Director/Co-Chair, and now an active voting member of the Antimicrobial Stewardship Committee, I implement hospital-wide initiatives focused on improving clinical outcomes, reducing inappropriate antimicrobial use, and tracking drug resistance. I actively participate on related committees or and provide education to other clinical departments and divisions. During days on clinical service, I commit approximately 4-6 hours a day to clinical activities including precepting students and residents. I also serve on-call for the pharmacy department and ID consult services for patient-specific or general questions regarding antimicrobial therapy. Lastly, I also function as a rotating clinician on-call for the blood culture rapid diagnostic program for the microbiology laboratory. For the Rutgers Global Tuberculosis Institute (GTBI; CDC-funded TB Center of Excellence), I provide clinical consultations for the Northeast United States region. I also participate in tuberculosis education and training activities at GTBI.

ADMINISTRATIVE APPOINTMENTS

July 2014 – January 2023 **Antimicrobial Stewardship Advisory Committee**
Pharmacist Director & Co-Chair
Robert Wood Johnson University Hospital, New Brunswick, New Jersey

HOSPITAL/HEALTH SYSTEM COMMITTEES

April 2023 – Present **Microbiology Committee**
RWJBarnabas Health System, New Jersey

July 2020 – Present **Antimicrobial Stewardship Committee**
RWJBarnabas Health System, New Jersey

November 2017 – Present **C. difficile Task Force**
Robert Wood Johnson University Hospital, New Brunswick, New Jersey

September 2016 – Present **Infectious Diseases Pharmacy Collaborative**
Clinical Pharmacy Council, RWJBarnabas Health System, New Jersey

July 2014 – Present **Antimicrobial Stewardship Advisory Committee**
Robert Wood Johnson University Hospital, New Brunswick, New Jersey

Pharmacy and Therapeutics Committee
Robert Wood Johnson University Hospital, New Brunswick, New Jersey

Infection Prevention Committee
Robert Wood Johnson University Hospital, New Brunswick, New Jersey

Pharmacy Residency Advisory Committee
Robert Wood Johnson University Hospital, New Brunswick, New Jersey

November 2016 – November 2017 **Antibiotic Indications and 48-Hour Timeout Working Group**
Robert Wood Johnson University Hospital, New Brunswick, New Jersey

July 2014 – March 2017 **Sepsis Committee**
Robert Wood Johnson University Hospital, New Brunswick, New Jersey

January 2017 – April 2017 **Antifungal Formulary Working Group**
RWJBarnabas Health System, New Jersey

CLINICAL ACTIVITIES (continued)

HOSPITAL/HEALTH SYSTEM COMMITTEES (continued)

September 2016 – January 2017	Antibiotic Indication Working Group RWJBarnabas Health System, New Jersey
January 2016 – January 2017	ED Cellulitis Treatment Performance Improvement Robert Wood Johnson University Hospital, New Brunswick, New Jersey
August 2015 – January 2017	Fungemia LEAN Performance Improvement Robert Wood Johnson University Hospital, New Brunswick, New Jersey
July 2015 – December 2016	Surgical Site Infection Prevention Bundle Taskforce Robert Wood Johnson University Hospital, New Brunswick, New Jersey

CLINICAL PROTOCOL/GUIDELINE & POLICY DEVELOPMENT

Clinical protocols, guidelines, policies are focused on antimicrobial stewardship and infectious diseases therapeutics.

See **APPENDIX A (Clinical Activities)** at end of document for full list of projects completed.

PROFESSIONAL ORGANIZATIONS

2022 – Present	Consortium of Applied Pharmacometrics (COAP)
2022 – Present	Clinicians for Climate Action New Jersey (CCANJ)
2017 – Present	Infectious Diseases Society of America (IDSA)
2017 – Present	Clinical and Laboratory Standards Institute (CLSI)
2015 – Present	Society of Infectious Diseases Pharmacists (SIDP)
2015 – Present	Consortium of Universities for Global Health (CUGH)
2012 – Present	American College of Clinical Pharmacy (ACCP)
2014 – 2017	American Association of Colleges of Pharmacy (AACP)
2015 – 2017	New Jersey Society of Health-System Pharmacists (NJSHP)
2013 – 2014	California Society of Health-System Pharmacists (CSHP)
2011 – 2015	American Society of Health-System Pharmacists (ASHP)

NATIONAL/GLOBAL COMMITTEES & LEADERSHIP APPOINTMENTS

Active

January 2024 – Present	Voting Member Subcommittee on Antimicrobial Susceptibility Testing (AST) Clinical and Laboratories Standards Institute (CLSI)
January 2023 – Present	Co-Chair Working Group on AST Breakpoints Subcommittee on Antimicrobial Susceptibility Testing (AST) Clinical and Laboratories Standards Institute (CLSI)
November 2017 – Present	Steering Committee Infectious Diseases Educator Network (ID-EN)

Completed

January 2018 – December 2023	Advisor Subcommittee on Antimicrobial Susceptibility Testing (AST) Clinical and Laboratories Standards Institute (CLSI)
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NATIONAL/GLOBAL COMMITTEES & LEADERSHIP APPOINTMENTS (*continued*)

October 2021 – December 2023	Chair Aminoglycosides Breakpoint Ad Hoc Working Group Subcommittee on Antimicrobial Susceptibility Testing (AST) Clinical and Laboratories Standards Institute (CLSI)
February 2019 – December 2022	Voting Member Working Group on AST Breakpoints Subcommittee on Antimicrobial Susceptibility Testing (AST) Clinical and Laboratories Standards Institute (CLSI)
February 2021 – December 2022	Product Co-Lead Editor & Section Author <i>Rifamycin Drug-Drug Interactions: A Guide for Primary Care Providers</i> Co-Lead: Shereen Katrak, MD, MPH (TB Free California) Collaborators/Funders: Rutgers Global Tuberculosis Institute, UCSF Curry International Tuberculosis Center, TB Free California-California Dept of Public Health
November 2018 – November 2021	Guidelines Committee Society of Infectious Diseases Pharmacists (SIDP)
December 2020 – June 2022	Chair Plazomicin Breakpoint Ad Hoc Working Group Subcommittee on Antimicrobial Susceptibility Testing (AST) Clinical and Laboratories Standards Institute (CLSI)
November 2020 – October 2021	Chair Guidelines Committee Society of Infectious Diseases Pharmacists (SIDP)
February 2019 – June 2021	Co-Chair Aminopenicillins (A4) Breakpoint Ad Hoc Working Group Subcommittee on Antimicrobial Susceptibility Testing (AST) Clinical and Laboratories Standards Institute (CLSI)
November 2019 – October 2020	Vice Chair Guidelines Committee Society of Infectious Diseases Pharmacists (SIDP)
October 2019 – February 2020	Co-Chair Imipenem-Relebactam Breakpoint Ad Hoc Working Group Subcommittee on Antimicrobial Susceptibility Testing (AST) Clinical and Laboratories Standards Institute (CLSI)
March 2018 – March 2019	Reviewer Infectious Diseases Self-Assessment Program (IDSAP): HIV and Hepatitis American College of Clinical Pharmacy (ACCP)
March 2018 – October 2018	Liaison to CLSI Inter-Organizational Engagement Committee Society of Infectious Diseases Pharmacists (SIDP)
November 2017 – October 2018	Inter-Organizational Engagement Committee Society of Infectious Diseases Pharmacists (SIDP)
November 2017 – July 2018	Meropenem/Vaborbactam Breakpoint Ad Hoc Working Group Subcommittee on Antimicrobial Susceptibility Testing (AST) Clinical and Laboratories Standards Institute (CLSI)

NATIONAL/GLOBAL COMMITTEES & LEADERSHIP APPOINTMENTS (continued)

December 2017 – July 2018	Shigella and Fluoroquinolone Breakpoint Ad Hoc Working Group Subcommittee on Antimicrobial Susceptibility Testing (AST) Clinical and Laboratories Standards Institute (CLSI)
March 2017 – June 2017	Dalbavancin Breakpoint Ad Hoc Working Group Subcommittee on Antimicrobial Susceptibility Testing (AST) Clinical and Laboratories Standards Institute (CLSI)
January 2017 – December 2017	Reviewer Subcommittee on Antimicrobial Susceptibility Testing (AST) Clinical and Laboratories Standards Institute (CLSI)
January 2017 – January 2018	SIDP Position Statement Co-Author <i>Role of the Antimicrobial Stewardship Team in Use of Rapid Diagnostics in Acute Care</i> Society of Infectious Diseases Pharmacists (SIDP)
September 2015 – October 2017	Political Advocacy Committee Society of Infectious Diseases Pharmacists (SIDP)

SERVICE TO PROFESSIONAL PUBLICATIONS, REFEREE

2013 – Present	Clinical Infectious Diseases, Open Forum Infectious Diseases, Vaccine, Annals of Pharmacotherapy, American Journal of Health-System Pharmacy, Clinical Pharmacology & Therapeutics, Disaster Medicine and Public Health Preparedness, International Journal of Pharmacy Practice, JAC-Antimicrobial Resistance, BMC Infectious Diseases, European Journal of Clinical Microbiology & Infectious Diseases, Antimicrobial Agents and Chemotherapy, PLOS ONE
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GUIDELINES PEER-REVIEWER

July 2021	Guidance on the Treatment of AmpC β-lactamase Producing Enterobacterales, Carbapenem-Resistant <i>Acinetobacter baumannii</i>, and <i>Stenotrophomonas maltophilia</i> Infections Infectious Diseases Society of America
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CONTINUING EDUCATION PEER-REVIEWER

July 2019	Evolving Strategies in the Management of HIV: An Update for Pharmacists Pharmacy Times
December 2015	A Pragmatic Approach to the Management of Gram-Positive Bacteremia Center for Continuing and Outreach Education, Rutgers Biomedical and Health Sciences and Advanced Studies <i>in</i> Medicine (ASiM)
December 2015	Identifying and Treating Serious Gram-Negative Infections in the Hospital Setting Center for Continuing and Outreach Education, Rutgers Biomedical and Health Sciences and Advanced Studies <i>in</i> Medicine (ASiM)
April 2015	A Pharmacists Guide to Ensuring Appropriate Antibiotic Utilization in Acute Bacterial Skin and Skin-Structure Infections ABSSSIs Pharmacy Times
February 2015	The Future of Hepatitis C Virus Treatment: Implications for Specialty and Community Pharmacy Pharmacy Times

UNIVERSITY & SCHOOL SERVICE

RUTGERS ERNEST MARIO SCHOOL OF PHARMACY

Active

March 2021 – Present	Curriculum Committee
November 2015 – Present	Wellness, Inclusion, Diversity and Engagement (WIDE) Committee
September 2015 – Present	Advising Committee
July 2014 – Present	Department Planning and Development Committee Department of Pharmacy Practice and Administration

Completed

January 2023 – November 2023	Strategic Planning Working Group: Education and Training
August 2014 – June 2022	EOF Endowment Scholarship Committee Education Opportunity Fund (EOF) Program
September 2019 – April 2020	ACPE Self-Study Working Group
October 2018 – January 2019	PharmD Program Working Group Rutgers Biomedical and Health Sciences, Comprehensive School Review
January 2017 – January 2019	Therapeutics/Pharmacology Curriculum Integration <i>Clinical Faculty Co-Coordinator, Infectious Diseases</i>
January 2017 – January 2018	Professional Development Curriculum Working Group
August 2015 – March 2016	Clinical Practice Working Group 2015-2020 School Strategic Plan

RUTGERS UNIVERSITY MICROBIOME PROGRAM (RUMP)

November 2023 – Present	RUMP Work-in-Progress Organizational Subcommittee
December 2023 – Present	RUMP Retreat Subcommittee
December 2022 – Present	RUMP Organizing Committee

RUTGERS ROBERT WOOD JOHNSON MEDICAL SCHOOL

2015 – Present	Global Health Steering Committee Office of Global Health
February 2015	Access-Med Spring Conference <i>Conference Facilitator</i>

RUTGERS GLOBAL HEALTH INSTITUTE

March 2018	Selection Committee Grant Reviewer Global Health Seed Grants
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RUTGERS BIOMEDICAL & HEALTH SCIENCES

December 2020	Interprofessional Education: Infectious Disease Simulation Cases <i>Faculty Facilitator (Pharmacy and Physician Assistant Students)</i>
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UNIVERSITY & SCHOOL SERVICE *(continued)*

RUTGERS BIOMEDICAL & HEALTH SCIENCES *(continued)*

September 2020 – Present	Anti-Racism Taskforce
March 2015, March 2016	Interprofessional Education Seminar: Medication Errors <i>Faculty Facilitator (Pharmacy and Medical Students)</i>

GLOBAL/PUBLIC HEALTH SERVICE

April 2012 – Present	Waves of Health 501(c)(3) Non-Profit Organization <i>Volunteer Pharmacist, Member</i> www.thewavesofhealth.org
September 2015 – July 2018	Montesino Community Health Center Laguneta, Dominican Republic Collaborators: The Dominican Republic Relief Organization, LIG Global, Waves of Health, Rotary International, Rutgers University (School of Medicine and School of Pharmacy), Pontificia Universidad Catolica Madre y Maestra, RWJBarnabas Health

TEACHING & MENTORING

TEACHING & MENTORING

Teaching (primarily centered around infectious diseases therapeutics and antimicrobial pharmacology) involves both didactic lecturing (core and elective courses) and experiential teaching for the following schools/programs/trainees:

- PharmD Students, Rutgers Ernest Mario School of Pharmacy
- Infectious Diseases PharmD Student Clerkship, Robert Wood Johnson University Hospital
- MSBS Students, Rutgers Robert Wood Johnson Medical School
- MD Students, Rutgers Robert Wood Johnson Medical School
- Physician Assistant Students, Rutgers School of Health Professions
- Pharmacy Residency Program, Robert Wood Johnson University Hospital
- Infectious Diseases Fellowship, Rutgers Robert Wood Johnson Medical School
- MPH Students, Rutgers School of Public Health

Mentoring (primarily as a clinical research advisor) involves both PharmD and MD students and residents/fellows.

See **APPENDIX B (Teaching and Mentoring)** for full list of courses taught and trainees mentored.

RESEARCH & SCHOLARLY ACTIVITIES

GRANTS & CLINICAL TRIALS

December 2023 – Ongoing	<p>R01 AI37080 <i>Project:</i> Urine Colorimetry for Tuberculosis Pharmacokinetics Evaluation in Children and Adults. <i>Heysell, Scott & Kagan, Leonid (MPI)</i> <i>Funding Agency:</i> NIH/NIAID 12/01/2023 – 10/31/2028 <i>Role:</i> Co-Investigator <i>Description:</i> The goal of this randomized trial is to determine the effect of urine rifampin excretion (PEE-TB platform) for personalized dosing in adults and children with active tuberculosis (TB) disease. Also, to elucidate microbiome/enteric pathogen mechanisms of anti-TB drug pharmacokinetic variability.</p>
July 2022 – Ongoing	<p>K23 AI159396 <i>Project:</i> Gut Microbiome and Pharmacokinetic Variability in Tuberculosis and Diabetes <i>Funding Agency:</i> NIH/NIAID 07/08/2022 – 06/30/2027 <i>Role:</i> Principal Investigator <i>Mentors:</i> Martin Blaser, MD (Rutgers) and Scott Heysell, MD, MPH (UVA) <i>Award:</i> \$997,515</p>
February 2022 – Ongoing	<p>R01 DK131214 <i>Project:</i> Mechanistic evaluation of melatonin as a protectant against antibiotic associated kidney injury. <i>Brunetti, Luigi (PI)</i> <i>Funding Agency:</i> NIDDK/NIH 02/01/2022 – 01/31/2027 <i>Role:</i> Site Investigator <i>Description:</i> The goal is to identify the mechanisms of benefit melatonin confers on kidney health and to investigate this natural product as a kidney protectant.</p>
January 2022 – Ongoing	<p>Diversity, Equity, and Inclusion Research Award Society of Infectious Diseases Pharmacist (SIDP) <i>Project:</i> Project PLAY: <u>P</u>harmacists-<u>L</u>ed PrEP Educa<u>A</u>tion in <u>Y</u>oung Adults <i>Role:</i> Co-Investigator <i>Award:</i> \$20,000 + \$20,000 (institutional matched funds)</p>
December 2020 – Ongoing	<p>Merck Investigator Initiated Research Grant <i>Project:</i> A survey-based cross-sectional study to assess the impact of the COVID-19 pandemic on vaccine confidence/hesitancy among underserved communities in NJ <i>Role:</i> Principal Investigator <i>Award:</i> \$190,156</p>
October 2020 – Ongoing	<p>Advancing Health Equity and Social Justice Grant Rutgers Biomedical & Health Sciences <i>Project:</i> Project VOICE: <u>V</u>accination <u>O</u>utreach and <u>I</u>ntegrated <u>C</u>ardiovascular Risk Education in People Living with HIV <i>Role:</i> Co-Principal Investigator <i>Award:</i> 10,000 + 10,000 (institutional matched funds)</p>
April 2019 – Ongoing	<p>Research and Mentoring Pilot Support (RAMPS) Grant Rutgers Robert Wood Johnson Medical School, Department of Medicine <i>Project:</i> One Month Latent Tuberculosis Prophylaxis for Renal Transplant Candidates <i>Role:</i> Co-Principal Investigator <i>Award:</i> \$20,000</p>
February 2019 – Ongoing	<p>Sodhani Family Foundation Grant <i>Project:</i> One Month Latent Tuberculosis Prophylaxis for Renal Transplant Candidates <i>Role:</i> Co-Principal Investigator <i>Award:</i> \$10,000</p>

RESEARCH CONTRACTS & INDUSTRY-SPONSORED TRIALS

08/2021 – Ongoing	PROVE: A retrospective chart review study of cefiderocol real world outcomes and safety in the treatment of patients with Gram-negative bacterial infections <i>Sponsor:</i> Shionogi, Inc. <i>Role:</i> Study Site PI
05/2017 – 06/2020	ENDEAVOR: Observational Disease Registry of Patients Treated with Systemic Mold-Active Triazoles <i>Sponsor:</i> Astellas Pharma, Inc. <i>ClinicalTrials.gov identifier:</i> NCT03066011 <i>Role:</i> Site Investigator
03/2020 – 06/2020	Study to Evaluate the Safety and Antiviral Activity of Remdesivir (GS-5734™) in Participants with Severe Coronavirus Disease (COVID-19). Phase 3 Clinical Trial Nahass, Ronald (PI) <i>Sponsor:</i> Gilead Sciences <i>ClinicalTrials.gov identifier:</i> NCT04292899 <i>Role:</i> Site Co-Investigator
03/2020 – 06/2020	Study to Evaluate the Safety and Antiviral Activity of Remdesivir (GS-5734™) in Participants with Moderate Coronavirus Disease (COVID-19) Compared to Standard of Care Treatment. Phase 3 Clinical Trial Nahass, Ronald (PI) <i>Sponsor:</i> Gilead Sciences <i>ClinicalTrials.gov identifier:</i> NCT04292730 <i>Role:</i> Site Co-Investigator
03/2020 – 06/2020	Randomized Comparison of Combination Azithromycin and Hydroxychloroquine vs. Hydroxychloroquine Alone for the Treatment of Confirmed COVID-19 <i>Sponsor:</i> Rutgers Cancer Institute of New Jersey (CINJ 002011) <i>Role:</i> Co-Investigator

PEER-REVIEWED PUBLICATIONS

1. **Narayanan N**, Lewis JS. Aminoglycoside Therapeutic Drug Monitoring: On Paper versus In Practice. *Clin Infect Dis*. 2023 Dec 15;77(12):1737-1738. doi: 10.1093/cid/ciad446.
2. Bhowmick T, Abdul Azim A, **Narayanan N**, Kaye K. Traits and skills of effective leaders in antimicrobial stewardship. *Antimicrob Steward Healthc Epidemiol*. 2023;3(1):e222. doi: 10.1017/ash.2023.499.
3. Nelson GE, **Narayanan N**, Onguti S, Stanley K, Newland JG, Doernberg SB. Principles and Practice of Antimicrobial Stewardship Program Resource Allocation. *Infect Dis Clin North Am*. 2023 Dec;37(4):683-714. doi: 10.1016/j.idc.2023.07.002.
4. Xie YL, Modi N, Handler D, Yu S, Rao P, Kagan L, Petros de Guex K, Reiss R, Siemiątkowska A, Narang A, **Narayanan N**, Hearn J, Khalil A, Woods P, Young L, Lardizabal A, Subbian S, Peloquin CA, Vinnard C, Thomas TA, Heysell SK. Simplified urine-based method to detect rifampin underexposure in adults with tuberculosis: a prospective diagnostic accuracy study. *Antimicrob Agents Chemother*. 2023 Nov 15;67(11):e0093223. doi: 10.1128/aac.00932-23.
5. McCreary EK, Davis MR, **Narayanan N**, Andes DR, Cattaneo D, Christian R, Lewis RE, Watt KM, Wiederhold NP, Johnson MD. Utility of triazole antifungal therapeutic drug monitoring: Insights from the Society of Infectious Diseases Pharmacists: Endorsed by the Mycoses Study Group Education and Research Consortium. *Pharmacotherapy*. 2023 Oct;43(10):1043-1050. doi: 10.1002/phar.2850.
6. Ryu H, Abdul Azim A, Bhatt PJ, Uprety P, Mohayya S, Dixit D, Kirn TJ, **Narayanan N**. Rapid Diagnostics to Enhance Therapy Selection for the Treatment of Bacterial Infections. *Current Pharmacology Reports*. 2023 June; 9(4):198-216. <https://doi.org/10.1007/s40495-023-00323-1>
7. Majumdar A, Shah MR, Park JJ, **Narayanan N**, Kaye KS, Bhatt PJ. Challenges and Opportunities in Antimicrobial Stewardship among Hematopoietic Stem Cell Transplant and Oncology Patients. *Antibiotics (Basel)*. 2023 Mar 16;12(3). doi: 10.3390/antibiotics12030592.
8. Mohayya SM, Arsalan M, **Narayanan N**, Patel P, Hong CG, Kirn TJ, Bhatt PJ, Bhowmick T. Impact of phenotypic rapid diagnostic assay on duration of empiric antibiotics for gram-negative bacteremia. *Antimicrob Steward Healthc Epidemiol*. 2023 Jan 30;3(1):e22. doi: 10.1017/ash.2022.331.

9. Mehta K, **Narayanan N**, Heysell SK, Bisson GP, Subbian S, Kurepina N, Kreiswirth BN, Vinnard C. Pharmacogenetic variability and the probability of site of action target attainment during tuberculosis meningitis treatment: A physiologically based pharmacokinetic modeling and simulations study. *Tuberculosis (Edinb)*. 2022 Dec;137:102271. doi: 10.1016/j.tube.2022.102271. Epub 2022 Oct 20.
10. Ryu H, Mohayya S, Hong T, Modi M, Yang J, Abdul Azim A, Bhatt PJ, Brunetti L, **Narayanan N**. Safety and Effectiveness of High-Dose Cefazolin in Patients with High Body Weight: A Retrospective Cohort Study. *Open Forum Infectious Diseases*. 2022 Feb 28;9(4):ofac105. doi: 10.1093/ofid/ofac105. eCollection 2022 Apr.
11. Fong G, Chahine EB, Justo JA, **Narayanan N**, Heil EL, Stover KR, Cho JC, Jenkins ZN, MacDougall C. Assessment of antimicrobial pharmacokinetics curricula across schools and colleges of pharmacy in the United States. *J Am Coll Clin Pharm*. 2021 Oct 8:1-9. doi: 10.1002/jac5.1541. [Online ahead of print]
12. Mohayya SM, **Narayanan N**, Cimilluca D, Malanowski A, Vaidya P, Bhowmick T. Effectiveness of an Electronic Automated Antibiotic Time Out Alert in the Setting of Gram-Negative Bacteremia. *Antibiotics (Basel)*. 2021;10(9):1078. doi: 10.3390/antibiotics10091078.
13. Jacob SS, Bridgeman MB, Kim H, Toscani M, Kohler R, Shiao S, Jimenez HR, Barone JA, **Narayanan N**. Pharmacists' Perceptions and Drivers of Immunization Practices for COVID-19 Vaccines: Results of a Nationwide Survey Prior to COVID-19 Vaccine Emergency Use Authorization. *Pharmacy (Basel)*. 2021;9(3):131. doi: 10.3390/pharmacy9030131.
14. Hovan MR, **Narayanan N**, Cedarbaum V, Bhowmick T, Kirn TJ. Comparing mortality in patients with carbapenemase-producing carbapenem resistant Enterobacterales and non-carbapenemase-producing carbapenem resistant Enterobacterales bacteremia. *Diagn Microbiol Infect Dis*. 2021;101(4): 115505. doi: 10.1016/j.diagmicrobio.2021.115505. [Online ahead of print]
15. **Narayanan N**, Lin T, Vinarov D, Bucek T, Johnson L, Mathew C, Chaudhry S, Brunetti L. Relationship Between Multidrug-Resistant Enterobacterales and Obesity in Older Adults. *Infect Drug Resist*. 2021;14:2527-32.
16. Ryu H, **Narayanan N**, Bhatt P. Prevention of infection and optimizing vaccination in the solid organ transplant candidate and recipient. *Curr Opin Organ Transplant*. 2021;26(4):445-55.
17. Khan AR, Misdary C, Yegya-Raman N, Kim S, **Narayanan N**, Siddiqui S, Salgame P, Radbel J, De Groote F, Michel C, Mehnert J, Hernandez C, Braciale T, Malhotra J, Gentile MA, Jabbour SK. Montelukast in hospitalized patients with COVID-19. *J Asthma*. 2021 Mar 4;1-7. doi: 10.1080/02770903.2021.1881967. [Online ahead of print]
18. Saadi R, **Narayanan N**, Ohman-Strickland P, Zhu E, McCoy J, Wei G, Kirn TJ, Bridgeman P. Characterization of predictors of ESBL-producing Enterobacteriaceae in urine cultures of emergency department patients. *J Am Coll Emerg Physicians Open*. 2021 Jan 14;2(1):e12345. doi: 10.1002/emp2.12345. eCollection 2021 Feb.
19. Bhatt PJ, Shiao S, Brunetti L, Xie Y, Solanki K, Khalid S, Mohayya S, Au PK, Pham C, Uprety P, Nahass R, **Narayanan N**. Risk Factors and Outcomes of Hospitalized Patients with Severe COVID-19 and Secondary Bloodstream Infections: A Multicenter, Case-Control Study. *Clinical Infectious Diseases*. 2020. doi: 10.1093/cid/ciaa1748. [Online ahead of print]
20. Radbel J, **Narayanan N**, Bhatt P. Use of Tocilizumab for COVID-19-Induced Cytokine Release Syndrome: A Cautionary Case Report. *CHEST*. 2020;158(1):e15-9. [Online ahead of print]
21. Elsaid MI, Li Y, John T, **Narayanan N**, Catalano C, Rustgi VK. Economic and Healthcare Burdens of Hepatitis Delta: A Study of Commercially Insured Adults in the United States. *Hepatology* 2019 Dec 5. doi: 10.1002/hep.31055.
22. Elsaid MI, John T, Li Y, Koduru S, Ali SZ, Catalano C, **Narayanan N**, Rustgi VK. Health Care Utilization and Economic Burdens of Hemochromatosis in the United States: A Population-Based Claims Study. *J Manag Care Spec Pharm* 2019;25(12):1377-86.
23. Smoke S, Raja K, **Narayanan N**, Brunetti L. Selective antibiotic susceptibility reporting and broad-spectrum intravenous antibiotic use: A multicenter ecological study. *International Journal of Antimicrobial Agents* 2019;54(3):367-70.
24. **Narayanan N**, Elsaid MI, NeMoyer RE, Trivedi N, Zeb U, Rustgi VK. Disparities in hepatitis A virus (HAV) vaccination coverage among adult travelers to intermediate or high-risk countries: The role of birthplace and race/ethnicity. *Vaccine* 2019; 37(3):4111-7.
25. Zeitler K and **Narayanan N**. The Present and Future States of Antimicrobial Stewardship and Rapid Diagnostic Testing: Can One Ideally Succeed Without the Other? *Current Treatment Options in Infectious Diseases* 2019;11(2):177-87.
26. **Narayanan N**, Adams CD, Kubiak DW, Cheng S, Stoianovici R, Kagan L, Brunetti L. Evaluation of Treatment Options for Methicillin-Resistant *Staphylococcus aureus* Infections in the Obese Patient. *Infection and Drug Resistance* 2019;12:871-91.

PEER-REVIEWED PUBLICATIONS (continued)

27. Jeffres MN, Kufel WD, Biehle LR, Cho JC, **Narayanan N**, Gruenberg K, Garcia J, MacDougall C. A Comprehensive Survey of Infectious Diseases Curriculum Among United States Pharmacy Schools. *American Journal of Pharmaceutical Education* 2019; 83(9):7168.
28. **Narayanan N**, Rai R, Vaidya P, Desai A, Bhowmick T, Weinstein MP. Comparison of Linezolid and Daptomycin for the Treatment of Vancomycin-Resistant Enterococcal Bacteremia. *Therapeutic Advances in Infectious Disease* 2019;6:1-8.
29. **Narayanan N**, Gulati N, Ghoshal B, Feja K, Malhotra A, Bhavaraju R, Jindani A, Gaur S, Kalyoussef S. Latent Tuberculosis Infection Beliefs and Testing and Treatment Health Behaviors Amongst Non-US-Born South Asians in New Jersey: A Cross-Sectional Community Survey. *Journal of Community Health* 2019;44(4):796-806.
30. Hogan M, Bridgeman M, Min GH, Dixit D, Bridgeman P, **Narayanan N**. Effectiveness of Empiric Aztreonam Compared to Other Beta-Lactams for Treatment of *Pseudomonas aeruginosa* infections. *Infection and Drug Resistance* 2018;11:1975-81.
31. Bhowmick T, Kirn TJ, Hetherington F, Takavarasha S, Sandhu SS, Gandhi S, **Narayanan N**, Weinstein MP. Collaboration Between an Antimicrobial Stewardship Team and the Microbiology Laboratory Can Shorten Time to Directed Antibiotic Therapy for Methicillin-Susceptible Staphylococcal Bacteremia and to Discontinuation of Antibiotics for Coagulase-Negative Staphylococcal Contaminants. *Diagnostics Microbiology and Infectious Diseases* 2018 Nov;92(3):214-9.
32. Cornett JK, Bodiwala V, Razuk V, Shukla D, **Narayanan N**. Results of a Hepatitis C Virus Screening Program of the 1945-1965 Birth Cohort in a Large Emergency Department in New Jersey. *Open Forum Infectious Diseases* 2018 Mar 26;5(4):ofy065.
33. Hill B, **Narayanan N**, Palavecino E, Perez KK, Premraj S, Streifel A, Wrenn RH, Zeitler K. The Role of an Antimicrobial Stewardship Team in the Use of Rapid Diagnostic Testing in Acute Care: An Official Position Statement of the Society of Infectious Diseases Pharmacists. *Infection Control & Hospital Epidemiology* 2018 Apr;39(4):473-475.
34. Adani S, Bhowmick T, Weinstein M, **Narayanan N**. Impact of Vancomycin MIC on Clinical Outcomes of Patients with Methicillin-Resistant *Staphylococcus aureus* Bacteremia Treated with Vancomycin at an Institution with Suppressed MIC Reporting. *Antimicrobial Agents and Chemotherapy* 2018;62(4): e02512-17.
35. **Narayanan N**, Lacy CR, Cruz JE, Nahass M, Karp J, Barone JA, Hermes-DeSantis ER. Disaster Preparedness: Biological Threats and Treatment Options. *Pharmacotherapy* 2018;38(2):217-34.
36. **Narayanan N**, Johnson L, MacDougall C. Beyond Susceptible and Resistant, Part III: Treatment of Infections due to Gram-negative Organisms Producing Carbapenemases. *Journal of Pediatric Pharmacology and Therapeutics* 2016;21:110-9.
37. **Narayanan N**, Stoffella S, Roy-Burman A, Lynch M, Ifland L, Brock T. Evaluation of Barriers to Sustainable Medication Access in a Public Hospital in Roatan, Honduras. *American Journal of Health-System Pharmacy* 2016;73:618-26.
38. **Narayanan N**, Gross K, Pintens M, Fee C, MacDougall C. Effect of an Electronic Medical Record Alert for Severe Sepsis among Emergency Department Patients. *American Journal of Emergency Medicine* 2016;34:185-8.
39. Dixit D, Bridgeman MB, Andrews LB, **Narayanan N**, Radbel J, Parikh A, Sunderram J. Acute Exacerbations of Chronic Obstructive Pulmonary Disease: Diagnosis, Management, and Prevention in Critically Ill Patients. *Pharmacotherapy* 2015;35(6):631-48.

PUBLISHED ABSTRACTS

Patel S, Mohayya S, Yassin A, Aboujaoude E, Dao J, Bhatt PJ, Kaye KS, Abdul Azim A, **Narayanan N**. Effectiveness of Piperacillin/tazobactam Loading Dose for Extended Infusion Dosing Among Patients with Gram-negative Bacteremia (EZ-LD). *Open Forum Infectious Diseases* 2023;10(suppl 2):S155.

Reitmeyer K, Rana B, Awad DA, Huang E, Park JJ, Yassin A, Mills JP, Abdul Azim A, Bhatt PJ, **Narayanan N**. Effectiveness of Oral Vancomycin as Prophylaxis against *Clostridioides difficile* Infection in Hematopoietic Stem Cell Transplant Patients. *Open Forum Infectious Diseases*, 2023;10(suppl 2):S398-9.

Sharma R, Dixit D, Pathickal S, Park J, Lee B, Jain S, Kairys J, Katchiuri N, Park T, **Narayanan N**, Swamy S. Outcomes of Neutropenic Patients with *Clostridium difficile* Infection. *Infection Control & Hospital Epidemiology* 2020;41:s339-s340.

Narayanan N, Chaudhry S, Vinarov D, Bucek T, Johnson L, Mathew C, Lin T, Brunetti L. Evaluation of Obesity as a Risk Factor for Drug-Resistant Enterobacteriaceae Among Hospitalised Adults. 30th European Congress on Clinical Microbiology and Infectious Diseases (ECCMID) Abstract Book 2020.

PUBLISHED ABSTRACTS (continued)

Hovan M, **Narayanan N**, Cedarbaum V, Bhowmick T, Kirn T. Comparing Outcomes and Clinical Characteristics Associated with Carbapenemase-Producing and Non-Carbapenemase-Producing Carbapenem-Resistant Enterobacteriaceae Bacteraemia. 30th European Congress on Clinical Microbiology and Infectious Diseases (ECCMID) Abstract Book 2020.

Parikh P, McCoy J, Bhatt P, Ohman-Strickland P, **Narayanan N**, Bhavini Shah, Bridgeman P. Time to active Gram-negative antibiotic coverage for severe sepsis and septic shock in patients with and without a reported penicillin allergy: A retrospective cohort study. *Journal of the American College of Clinical Pharmacy* 2020;3(1):202.

Fong G, Chahine EB, Justo JA, **Narayanan N**, Heil E, Stover KR, Cho JC, Jenkins ZN, MacDougall C. Assessment of Antimicrobial Pharmacokinetics Curriculum in Schools and Colleges of Pharmacy Across the United States. *American Journal of Pharmaceutical Education* 2019;83(5):7654.

Elsaid MI, NeMoyer R, **Narayanan N**, Li Y, John T, Rustgi VK. Hepatitis B Vaccination Coverage Among Native Hawaiian and Pacific Islanders: A Population Study of United States Adults. *Hepatology* 2019;70(S1):583A-4A.

Elsaid M, NeMoyer R, **Narayanan N**, Li Y, Rustgi V. The Health and Limitation Index (HALex) in Patients with Chronic Liver Disease: A Population Based Study of US Adults. *Hepatology* 2018;68(S1):456A-7A.

Elsaid M, **Narayanan N**, Li Y, Rustgi V. Disease and Economic Burdens of Chronic Liver Disease Amongst Patients Chronic Kidney Disease in the United States. *Hepatology* 2018;68(S1):574A.

Elsaid M, **Narayanan N**, Li Y, Rustgi V. Disease and Economic Burdens of Hepatitis Delta in the United States. *Hepatology* 2018;68(S1):575A.

Elsaid M, Li Y, **Narayanan N**, Rustgi V. Disease and Economic Burden of Hemochromatosis in the United States. *Hepatology* 2018;68(S1):719A-20A.

Elsaid M, **Narayanan N**, NeMoyer R, Li Y, Elsabbagh A, Desai N, Nicosia A, Rustgi V. Racial and Gender Disparities in Hepatitis B Vaccination Coverage Amongst Asian American Adults. *Hepatology* 2018;68(S1):1199A.

Jeffres M, Kufel W, Biehle L, Cho J, **Narayanan N**, MacDougall C. A Comprehensive Survey of Infectious Diseases Curriculum Among United States Pharmacy Schools. *Open Forum Infectious Diseases* 2018;5(suppl 1):S41..

Narayanan N, Elsaid M, NeMoyer R, Trivedi N, Zeb U, Rustgi V. Disparities in Hepatitis A Virus (HAV) Vaccination Coverage Among Adult Travelers to High-Risk Countries: The Role of Nativity and Race. *Open Forum Infectious Diseases* 2018;5(suppl 1):S647.

Elsaid M, **Narayanan N**, NeMoyer R, Rustgi V. Hepatitis B Vaccination Coverage Amongst Asian-American Adults: A Population-Based Study of the Role of Race and Gender. *Open Forum Infectious Diseases* 2018;5(suppl 1):S741-2.

Bhowmick T, Jones L, Kirn T, **Narayanan N**, Weinstein M. Physician Responses to Positive Rapid Diagnostic Tests for Candida Fungemia in the Absence of Concomitant Positive Blood Cultures. *Open Forum Infectious Diseases* 2018;5(suppl 1):S599-600.

Cho JC, MacDougall C, Biehle LR, **Narayanan N**, Jeffres MN. Current Status of Infectious Diseases Education at United States Colleges of Pharmacy. *American Journal of Pharmaceutical Education* 2018;82(5):7158.

Bridgeman P, **Narayanan N**, Dixit D, Bridgeman M, Hermes-DeSantis ER. Working SMARTer: Development of a Multispecialty Student-Led Curriculum for an Advanced Pharmacy Practice Experience. *American Journal of Pharmaceutical Education* 2018;82(5):7158.

Adani S, Bhowmick T, Weinstein M, **Narayanan N**. Clinical Outcomes of Patients with Methicillin-Resistant *Staphylococcus aureus* (MRSA) Bacteremia Treated with Vancomycin at an Institution with Suppressed Minimum Inhibitory Concentration (MIC) Reporting: Impact of Vancomycin MIC. *Open Forum Infectious Diseases* 2017;4(suppl 1):S554.

Cornet JK, Bodiwala V, Razuk V, Khukla D, **Narayanan N**. Results of a Hepatitis C Virus Screening Program of the 1945-1965 Birth Cohort in a Large Emergency Department in New Jersey. *Open Forum Infectious Diseases* 2017;4(suppl 1):S201.

PUBLISHED ABSTRACTS (continued)

Rai R, Vaidya P, Desai A, Bhowmick T, Weinstein M, **Narayanan N**. Retrospective Study of Linezolid versus Daptomycin for the Treatment of Vancomycin- Resistant Enterococcal Bloodstream Infection. *Open Forum Infectious Diseases* 2017;4(suppl 1):S287.

Bhowmick T, Sharma R, Weinstein M, **Narayanan N**, Kirn T. Does a Negative Rapid Diagnostic Test for Detection of *Candida* Bloodstream Infection Lead to Less Antifungal Use? *Open Forum Infectious Diseases* 2017;4(suppl 1):S612-613.

Bhowmick T, Hetherington F, **Narayanan N**, Cornett J, McAuliffe V, Kirn T, Weinstein M. Collaboration between an Antimicrobial Stewardship Team and the Microbiology Laboratory can shorten time to directed antibiotic therapy. *Open Forum Infectious Diseases* 2016;3(suppl 1):S1884.

Shor J, You G, Razjouyan H, McGrath S, **Narayanan N**, Chokhavatia S, Boruchoff S, Bhowmick T. Adherence to guidelines for treatment of *Clostridium difficile* infection and clinical outcomes at a tertiary care university hospital: a retrospective study. *Open Forum Infectious Diseases* 2016;3(suppl 1):S2118

Shor J, You G, Razjouyan H, McGrath S, **Narayanan N**, Chokhavatia S, Boruchoff S, Bhowmick T. Adherence to guidelines for treatment of *Clostridium difficile* infection and clinical outcomes at a tertiary care university hospital: a retrospective study. *Gastroenterology* 2016;150(4)(suppl 1):S746.

Narayanan N, Bhowmick T, Jackson R, Lough J, Weinstein M. Clinical Outcomes of Patients with Bacteremia due to ESBL-Producing Enterobacteriaceae Treated with Carbapenem, Standard Intermittent Piperacillin-Tazobactam or Extended Infusion Piperacillin-Tazobactam. *Open Forum Infectious Diseases* 2015;2(suppl 1):S503.

Narayanan N, Gross K, Pintens M, Fee C, MacDougall C. Effect of an Electronic Medical Record Alert for Severe Sepsis among Emergency Department Patients. *Critical Care Medicine* 2014;42(12):A1590.

ORAL ABSTRACT PRESENTATIONS

Handler D (*presenting author*), Petros De Guex K, Rao P, Modi N, Kagan L, Siemiatkowska A, **Narayanan N**, Lardizabal A, Peloquin C, Khalil A, Woods A, Young L, Vinnard C, Thomas TA, Xie Y, Heysell SK. Urine Colorimetry for Tuberculosis Pharmacokinetics Evaluation in Children and Adults. Rancho Las Palmas: National Tuberculosis Controllers Association Annual Meeting, April 2022.

Jeffres MN (*presenting author*), Kufel WD, Biehle LR, Cho JC, **Narayanan N**, Gruenberg K, Garcia J, MacDougall C. A Comprehensive Survey of Infectious Diseases Curriculum Among United States Pharmacy Schools. IDWeek 2018. IDSA, SHEA, HIVMA, PIDS. 2018 Oct 3-7; San Francisco, CA.

POSTER PRESENTATIONS

GLOBAL CONFERENCES

Patel S, Mohayya S, Yassin A, Aboujaoude E, Dao J, Bhatt PJ, Kaye KS, Abdul Azim A, **Narayanan N**. Effectiveness of Piperacillin/tazobactam Loading Dose for Extended Infusion Dosing Among Patients with Gram-negative Bacteremia (EZ-LD). IDWeek 2023, Infectious Diseases Society of America, Society for Healthcare Epidemiology of America, HIV Medicine Association, Pediatric Infectious Diseases Society. 2018 Oct 11-15; Boston, Massachusetts.

Reitmeyer K, Rana B, Awad DA, Huang E, Park JJ, Yassin A, Mills JP, Abdul Azim A, Bhatt PJ, **Narayanan N**. Effectiveness of Oral Vancomycin as Prophylaxis against *Clostridioides difficile* Infection in Hematopoietic Stem Cell Transplant Patients. IDWeek 2023, Infectious Diseases Society of America, Society for Healthcare Epidemiology of America, HIV Medicine Association, Pediatric Infectious Diseases Society. 2018 Oct 11-15; Boston, Massachusetts.

Elsaid MI, NeMoyer R, **Narayanan N**, Li Y, John T, Rustgi VK. Hepatitis B Vaccination Coverage Among Native Hawaiian and Pacific Islanders: A Population Study of United States Adults. The Liver Meeting 2019, American Association for the Study of Liver Diseases. 2019 November 8-12; Boston, Massachusetts.

Mohayya S, **Narayanan N**, Cimiluca D, Malanowski A, Vaidya P, Bhowmick T. Effectiveness of an Automated Time Out in the Setting of Gram-Negative Bacteremia. IDWeek 2019, Infectious Diseases Society of America, Society for Healthcare Epidemiology of America, HIV Medicine Association, Pediatric Infectious Diseases Society. 2019 Oct 2-6; Washington, DC.

Elsaid M, NeMoyer R, **Narayanan N**, Li Y, Rustgi V. The Health and Limitation Index (HALex) in Patients with Chronic Liver Disease: A Population Based Study of US Adults. The Liver Meeting 2018, American Association for the Study of Liver Diseases. 2018 November 9-13; San Francisco, California.

Elsaid M, **Narayanan N**, Li Y, Rustgi V. Disease and Economic Burdens of Chronic Liver Disease Amongst Patients Chronic Kidney Disease in the United States. The Liver Meeting 2018, American Association for the Study of Liver Diseases. 2018 November 9-13; San Francisco, California.

Elsaid M, **Narayanan N**, Li Y, Rustgi V. Disease and Economic Burdens of Hepatitis Delta in the United States. The Liver Meeting 2018, American Association for the Study of Liver Diseases. 2018 November 9-13; San Francisco, California.

Elsaid M, Li Y, **Narayanan N**, Rustgi V. Disease and Economic Burden of Hemochromatosis in the United States. The Liver Meeting 2018, American Association for the Study of Liver Diseases. 2018 November 9-13; San Francisco, California.

Elsaid M, **Narayanan N**, NeMoyer R, Li Y, Elsabbagh A, Desai N, Nicosia A, Rustgi V. Racial and Gender Disparities in Hepatitis B Vaccination Coverage Amongst Asian American Adults. The Liver Meeting 2018, American Association for the Study of Liver Diseases. 2018 November 9-13; San Francisco, California.

Narayanan N, Elsaid M, NeMoyer R, Trivedi N, Zeb U, Rustgi V. Disparities in Hepatitis A Virus (HAV) Vaccination Coverage Among Adult Travelers to High-Risk Countries: The Role of Nativity and Race. IDWeek 2018, Infectious Diseases Society of America, Society for Healthcare Epidemiology of America, HIV Medicine Association, Pediatric Infectious Diseases Society. 2018 Oct 3-7; San Francisco, California.

Elsaid M, **Narayanan N**, NeMoyer R, Rustgi V. Hepatitis B Vaccination Coverage Amongst Asian-American Adults: A Population-Based Study of the Role of Race and Gender. IDWeek 2018, Infectious Diseases Society of America, Society for Healthcare Epidemiology of America, HIV Medicine Association, Pediatric Infectious Diseases Society. 2018 Oct 3-7; San Francisco, California.

Bhowmick T, Jones L, Kirn T, **Narayanan N**, Weinstein M. Physician Responses to Positive Rapid Diagnostic Tests for Candida Fungemia in the Absence of Concomitant Positive Blood Cultures. IDWeek 2018, Infectious Diseases Society of America, Society for Healthcare Epidemiology of America, HIV Medicine Association, Pediatric Infectious Diseases Society. 2018 Oct 3-7; San Francisco, California.

Smoke S, Brunetti L, **Narayanan N**, Giordano P, Alerte L, Raja K, Shah M, Sobolewski, Hill J, Sullivan J, Patel G, Cavanaugh J, DeVivo M, Lew I, Adamson RT. Impact of Selective Antibiotic Susceptibility Reporting on Broad-Spectrum Antibiotic Use Across Seven Hospitals: An Ecological Study. Global Conference on Clinical Pharmacy, American College of Clinical Pharmacy. 2018 October 20-23; Seattle, Washington.

Bhowmick T, Sharma R, Weinstein M, **Narayanan N**, Kirn T. Does a Negative Rapid Diagnostic Test for Detection of *Candida* Bloodstream Infection Lead to Less Antifungal Use? IDWeek 2017, Infectious Diseases Society of America, Society for Healthcare Epidemiology of America, HIV Medicine Association, Pediatric Infectious Diseases Society. 2017 Oct 4-8; San Diego, California.

Park J, Kothari D, **Narayanan N**, Bhowmick T. Evaluation of early vs. late blood culture positivity in patients with candidemia. ASM Microbe 2017, American Society of Microbiology. 2017 June 1-5; New Orleans, LA.

Bhowmick T, Hetherington F, **Narayanan N**, Cornett J, McAuliffe V, Kirn T, Weinstein M. Collaboration between an Antimicrobial Stewardship Team and the Microbiology Laboratory can shorten time to directed antibiotic therapy. IDWeek 2016, Infectious Diseases Society of America, Society for Healthcare Epidemiology of America, HIV Medicine Association, Pediatric Infectious Diseases Society. 2016 Oct 26-30; New Orleans, LA.

Shor J, You G, Razjouyan H, McGrath S, **Narayanan N**, Chokhavatia S, Boruchoff S, Bhowmick T. Adherence to guidelines for treatment of *Clostridium difficile* infection and clinical outcomes at a tertiary care university hospital: a retrospective study. IDWeek 2016, Infectious Diseases Society of America, Society for Healthcare Epidemiology of America, HIV Medicine Association, Pediatric Infectious Diseases Society. 2016 Oct 26-30; New Orleans, LA.

Narayanan N, Bhowmick T, Jackson R, Lough J, Weinstein M. Clinical Outcomes of Patients with Bacteremia due to ESBL-Producing Enterobacteriaceae Treated with Carbapenem, Standard Intermittent Piperacillin-Tazobactam or Extended Infusion Piperacillin-Tazobactam. IDWeek 2015, Infectious Diseases Society of America, Society for Healthcare Epidemiology of America, HIV Medicine Association, Pediatric Infectious Diseases Society. 2015 Oct 7-11; San Diego, California.

Narayanan N, Stoffella S, Brock T. Barriers to Sustainable Medication Supply Chain in a Public Hospital in Roatan, Honduras. Global Conference on Clinical Pharmacy, American College of Clinical Pharmacy. 2015 October 17-21; San Francisco, California. *Encore Presentation*

NATIONAL CONFERENCES

Saadi R, **Narayanan N**, Zhu E, Bridgeman P. Characterization of predictors of ESBL-producing organisms in urine cultures of emergency department patients. American College of Clinical Pharmacy Annual Meeting 2019. 2019 October 26-29; New York, New York.

Parikh P, **Narayanan N**, McCoy J, Bhatt P, Ohman-Strickland P, Shah B, Bridgeman P. Evaluation of time to active Gram-negative antibiotic coverage in patients with severe sepsis or septic shock and document penicillin allergy. American College of Clinical Pharmacy Annual Meeting 2019. 2019 October 26-29; New York, New York.

Fong G, Chahine EB, Justo JA, **Narayanan N**, Heil EL, Stover KR, Cho JC, Jenkins ZN, MacDougall C. Assessment of Antimicrobial Pharmacokinetics Curriculum in Schools and Colleges of Pharmacy Across the United States. AACP Annual Meeting: Pharmacy Education 2019. 2019 July 13-17; Chicago, Illinois.

Bridgeman P, **Narayanan N**, Dixit D, Bridgeman M, Hermes-DeSantis E. Working SMARTer: Development of a Multispecialty Student-Led Curriculum for an Advanced Pharmacy Practice Experience. AACP Annual Meeting: Pharmacy Education 2018. 2018 July 21-25; Boston, Massachusetts.

Cho JC, MacDougall C, Biehle LR, **Narayanan N**, Jeffres MN. Current Status of Infectious Diseases Education at United States Colleges of Pharmacy. AACP Annual Meeting: Pharmacy Education 2018. 2018 July 21-25; Boston, Massachusetts.

Patel Y, Marinacci M, **Narayanan N**, Toscani M. Marcolide prophylaxis for chronic obstructive pulmonary disease exacerbations: efficacy and safety for oral dosing and potential for inhaled delivery. 51st Annual ASHP Midyear Clinical Meeting. 2017 December 3-7; Orlando, Florida.

Abasov R, Agarwal S, Toscani M, **Narayanan N**. The role of novel beta-lactam and beta-lactamase inhibitor combination products in treatment of infections caused by carbapenem-resistant Enterobacteriaceae. 51st Annual ASHP Midyear Clinical Meeting. 2017 December 3-7; Orlando, Florida.

Bhavsar V, Lise J, Sorrentino D, **Narayanan N**. Impact of multidisciplinary antimicrobial stewardship intervention on discontinuation of empiric therapy for early onset sepsis. Vermont Oxford Network Annual Quality Congress. 2017 October 26-30; Chicago, IL.

Patel A, Patel L, Toscani M, **Narayanan N**. Acanthamoeba Keratitis: Review of Pharmacotherapeutic Outcomes (25 year case history). 50th Annual ASHP Midyear Clinical Meeting. 2016 December 4-8; Las Vegas, Nevada.

Narayanan N, Gross K, Pintens M, Fee C, MacDougall C. Effect of an Electronic Medical Record Alert for Severe Sepsis among ED Patients. 44th Critical Care Congress, Society of Critical Care Medicine. 2015 January 17-21; Phoenix, AZ.

Narayanan N, Stoffella S, Brock T. Barriers to Sustainable Medication Supply Chain in a Public Hospital in Roatan, Honduras. International Pharmaceutical Federation (FIP) World Congress. 2014 August 31 – September 4; Bangkok, Thailand

Narayanan N, Philips A, Patel R, Varghese M, Gugliotta J. Improving Appropriate Utilization of Broad-Spectrum Antibiotics through Educational Efforts. 47th Annual ASHP Midyear Clinical Meeting. 2013 December 8-12; Orlando, Florida

Narayanan N, Philips A, Gugliotta J. Ibuprofen-Induced Aseptic Meningitis. 46th Annual ASHP Midyear Clinical Meeting. 2012 December 2-6; Las Vegas, Nevada

LOCAL CONFERENCES

Narayanan N, Marshall E, Gaur S. Latent Tuberculosis Infection Beliefs and Testing/Treatment Health Behaviors Amongst Foreign-Born South Asians in New Jersey: A Cross-Sectional Community Survey. Practicum/Field Work Poster Session, Rutgers School of Public Health. 2018 September 17.

Sadural E, **Narayanan N**, Jimenez H, Escobar J. The Power of Partnerships: Global Health Interprofessional Service and Education in the Dominican Republic. Global Health Fair, Rutgers Robert Wood Johnson Medical School. 2016 December 13; New Brunswick, New Jersey.

Avenoso P, Bhowmick T, **Narayanan N**. Evaluation of an adult febrile neutropenia antimicrobial protocol in liquid tumor malignancy and bone marrow transplant patients. Rutgers Pharmacy Research Day. 2016 April 26; Piscataway, New Jersey.

Narayanan N, Stoffella S, Brock T. Barriers to Sustainable Medication Supply Chain in a Public Hospital in Roatan, Honduras. Rutgers Biomedical and Health Sciences Global Health Research Symposium. 2015 June 30; Piscataway, New Jersey. *Encore*

Narayanan N, Stoffella S, Brock T. Barriers to Sustainable Medication Supply Chain in a Public Hospital in Roatan, Honduras. Inter-School Research and Scholarly Activity Festival: ePOSTERPALOOZA. 2014 May 1; San Francisco, California

Narayanan N, Durie R, Pellegrino J. Hospital Pharmacy Competency Evaluation Practices. 2013 Annual NJSHP Meeting, 2013 April 12-13; Long Branch, New Jersey

CONTINUING EDUCATION PUBLICATIONS

Narayanan N and Bhatt PJ. An Interprofessional Approach to Managing Multidrug-Resistant Bacterial Infections. American Academy of CME, Inc. Power-Pak C.E. Online Interactive Monograph. February 2021. (CME and CPE credits)

<https://power-pak.com/course/preamble/120946>

Narayanan N, Bhatt PJ, and Cheshire E. Vaccination Needs in Older Populations. American Academy of CME, Inc. Power-Pak C.E. Online Interactive Monograph. October 2020. (CME, CPE, Nursing CE)

<https://www.powerpak.com/course/preamble/120194>

Narayanan N and Cornett J. Interprofessional Team Management of Multidrug-Resistant Gram-Negative Bacterial Infections. American Academy of CME, Inc. Power-Pak C.E. Online Interactive Monograph. January 2019. (CME and CPE credits)

<https://www.powerpak.com/course/preamble/117661>

Narayanan N. Confronting the Challenge of Health Care–Associated Infections. *Pharmacy Times*. November 2014, Volume 80, Number 11. (CPE credits)

PEER-REVIEWED EDUCATIONAL PRODUCT

Katrak S and **Narayanan N**. Rifamycin Drug-Drug Interactions: A Guide for Primary Care Providers Treating Latent Tuberculosis Infection. California Department of Public Health, Rutgers Ernest Mario School of Pharmacy, Rutgers Global Tuberculosis Institute, and the Curry International Tuberculosis Center; December 2022. Funded by the U.S. Centers for Disease Control and Prevention (U52PS004090 for GTBI, U52PS910163 for CITC/UCSF, and NB010T009395 for TBFree CA). Available: <https://www.currytbcenter.ucsf.edu/products/view/rifamycin-drugdrug-interactions-a-guide-for-primary-care-providers-treating-latent-tuberculosis> or <https://globaltb.njms.rutgers.edu/educationalmaterials/productfolder/RIFDDI.php>

MEDIA

December 2020

Tuberculosis (TB): The Disease that Still Needs Attention

Expert Guest

TV Asia Telugu Healthline & South Asian Total Health Initiative (SATHI)

August 2019

Pharmacists on the Front Line the Fight Against Antimicrobial Resistance

Expert Interviewee

Pharmacy Today; vol 25, issue 8, pages 26-30

June 2018

Voices of HIV/AIDS

Expert Guest

EBC Radio 1170 AM & South Asian Total Health Initiative (SATHI)

INVITED PRESENTATIONS

GLOBAL/INTERNATIONAL

October 2022

IDWeek 2022

Ditching the Dogma, Antimicrobial Stewardship Myths: Bactericidal Agents Are Necessary for Treatment of Bloodstream Infections

Washington, DC

INVITED PRESENTATIONS (continued)

GLOBAL/INTERNATIONAL (continued)

- September 2021 **Colombian Congress of Infectious Diseases 2021**
Antimicrobial Stewardship Practice and Personalized Medicine
Virtual Conference
- June 2021 **World Microbe Forum 2021**
Antimicrobial Stewardship Practice and Personalized Medicine; Where's the Connection?
Virtual Conference
- January 2017 **Rutgers Institute for Emergency Preparedness and Homeland Security**
Disaster Preparedness: Biological Threats, Review of Priority Pathogens
Piscataway, New Jersey (Webinar)

NATIONAL

- October 2023 **Tuberculosis Expert Network Meeting**
Considerations when a Patient Relapses with TB Disease after Treatment with BPaL
CDC Division of Tuberculosis Elimination and TB Centers of Excellence
Role: Discussant
- Society of Infectious Diseases Pharmacists (SIDP) 2023 Annual Meeting**
MICs: Who Needs 'Em? (No, Really-Who Needs Them?)
Boston, Massachusetts
- October 2020 **Tuberculosis Expert Network Meeting**
A Couple of Patients and a 2020 Look at Rifamycins in TB Treatment
CDC Division of Tuberculosis Elimination and TB Centers of Excellence
Role: Discussant/Co-Presenter
- American College of Clinical Pharmacy 2020 Annual Meeting**
Global Health PRN and Infectious Diseases PRN Focus Session – Infectious Disease Care and Considerations in Refugee and Immigrant Populations
Virtual Conference
- April 2019 **Tuberculosis Expert Network Meeting**
Therapies for Drug-Resistant Latent TB Infection
CDC Division of Tuberculosis Elimination and TB Centers of Excellence
Role: Discussant/Co-Presenter
- July 2019 **American Association of Colleges of Pharmacy 2019 Annual Meeting**
Special Session: Improving pharmacy education through creation of a nationwide educational collaborative: the example of antimicrobial stewardship (with Amber Giles, Zach Jenkins, Jonathan Thigpen, Conan MacDougall)
Chicago, Illinois

US NORTHEAST REGIONAL

- April 2019 | Sept 2019 | July 2022 |
Sept 2022 | May 2023 | Sept 2023 |
Oct 2023 **Tuberculosis Intensive Course**
Managing Adverse Drug Reactions
Rutgers Global Tuberculosis Institute
Newark, New Jersey

STATE

- March 2023 **New Jersey Society of Health-System Pharmacists 2023 Annual Meeting**
Health Equity & Social Justice: Primer for Pharmacy Professionals
Long Branch, New Jersey

INVITED PRESENTATIONS (*continued*)

STATE (*continued*)

- December 2022 **New Jersey Antimicrobial Stewardship Recognition Program**
Acute Care Facility Panelist & Presenter
Virtual Program
- November 2020 **Rutgers Ernest Mario School of Pharmacy Continuing Education Program**
A Call to Action: Addressing Health Inequity Through Cultural Competence & Activism
Piscataway, New Jersey (*Virtual Program*)
- March 2017 **Rutgers Ernest Mario School of Pharmacy Continuing Education Program**
Updates in Infectious Diseases Therapeutics
Piscataway, New Jersey
- March 2016 **New Jersey Society of Health-System Pharmacists 2016 Annual Meeting**
Antimicrobial Stewardship & Advances in Rapid Diagnostics
Long Branch, New Jersey
- July 2015 **New Jersey Society of Health-System Pharmacists, North Central Chapter**
Updates in HIV/AIDS Antiretroviral Treatment Recommendations
Summit, New Jersey

LOCAL

- September 2023 **Medicine Resident Conference**
Antibiotic Allergies
Department of Medicine, Rutgers Robert Wood Johnson Medical School
- January 2023 **Infectious Diseases Seminar**
Bactericidal vs Bacteriostatic for Bacteremia
Division of Infectious Diseases, Rutgers Robert Wood Johnson Medical School
Robert Wood Johnson University Hospital, New Brunswick, New Jersey
- August 2022 **SCCM Fundamental Critical Care Support (FCCS) Training**
Life-Threatening Infections: Diagnosis and Antimicrobial Therapy Selection
Robert Wood Johnson University Hospital, New Brunswick, New Jersey
- June 2022 **Faculty Development Seminar: Health Equity**
Rutgers University, Ernest Mario School of Pharmacy
- February 2021 **Faculty Development Seminar: Cultural Competency**
Rutgers University, Ernest Mario School of Pharmacy
- November 2020 **TB Grand Rounds**
Evolving Approaches to Antituberculous Drug Toxicities
Rutgers Global Tuberculosis Institute, New Jersey Medical School, Newark, NJ
- COVID-19 and Underrepresented Populations**
Student National Pharmaceutical Association, Rutgers Student Chapter
Rutgers University, Ernest Mario School of Pharmacy
- June 2020 **Infectious Disease Journal Club**
Development of Daptomycin Susceptibility Breakpoints for E. faecium and Revision of the Breakpoints for Other Enterococcal Species by the CLSI, Clin Infect Dis 2020
Division of Infectious Diseases, Rutgers Robert Wood Johnson Medical School

INVITED PRESENTATIONS (*continued*)

LOCAL (*continued*)

- November 2019 **Infectious Disease Journal Club**
Maribavir for Preemptive Treatment of Cytomegalovirus Reactivation, NEJM 2019
Division of Infectious Diseases, Rutgers Robert Wood Johnson Medical School
Robert Wood Johnson University Hospital, New Brunswick, New Jersey
- September 2019 **Infectious Diseases Research Seminar**
Microbiome and Drug Therapy
Division of Infectious Diseases, Rutgers Robert Wood Johnson Medical School
Robert Wood Johnson University Hospital, New Brunswick, New Jersey
- January 2019 **Infectious Diseases Research Seminar**
Therapeutic Management of MDR Tuberculosis: Updates in Pharmacologic Therapy
Division of Infectious Diseases, Rutgers Robert Wood Johnson Medical School
Robert Wood Johnson University Hospital, New Brunswick, New Jersey
- October 2018 **Infectious Disease Journal Club**
Bacterial Factors That Predict Relapse after Tuberculosis Therapy, NEJM 2018
Division of Infectious Diseases, Rutgers Robert Wood Johnson Medical School
Robert Wood Johnson University Hospital, New Brunswick, New Jersey
- September 2018 **General Surgery Resident Conference**
Updates in Infectious Diseases Therapeutics
Division of General Surgery, Rutgers Robert Wood Johnson Medical School
Robert Wood Johnson University Hospital, New Brunswick, New Jersey
- Infectious Diseases Research in Progress Conference**
Effectiveness of EMR-based Antibiotic Timeout in Gram-Negative Bacteremia
Division of Infectious Diseases, Rutgers Robert Wood Johnson Medical School
Robert Wood Johnson University Hospital, New Brunswick, New Jersey
- August 2018 **Infectious Diseases Research Seminar**
Therapeutic Management of Clostridium difficile Infection
Division of Infectious Diseases, Rutgers Robert Wood Johnson Medical School
Robert Wood Johnson University Hospital, New Brunswick, New Jersey
- June 2018 **SCCM Fundamental Critical Care Support (FCCS) Training**
Life-Threatening Infections: Diagnosis and Antimicrobial Therapy Selection
Robert Wood Johnson University Hospital, New Brunswick, New Jersey
- April 2018 **Infectious Diseases Journal Club**
Extended-pulsed fidaxomicin versus vancomycin for Clostridium difficile infection in patients 60 years and older (EXTEND), Lancet Infect Dis 2017
Division of Infectious Diseases, Rutgers Robert Wood Johnson Medical School
Robert Wood Johnson University Hospital, New Brunswick, New Jersey
- March 2018 **Infectious Diseases Research in Progress Conference**
T2 Candida Rapid Diagnostic and Antifungal Stewardship
Division of Infectious Diseases, Rutgers Robert Wood Johnson Medical School
Robert Wood Johnson University Hospital, New Brunswick, New Jersey
- October 2017 **Infectious Diseases Journal Club – IDWeek Review**
Updates on Vancomycin Dosing and Monitoring: Trough vs AUC
Division of Infectious Diseases, Rutgers Robert Wood Johnson Medical School
Robert Wood Johnson University Hospital, New Brunswick, New Jersey
- Emerging Therapies for Infectious Diseases: Is the Future Here?**
Department of Pharmacy, Robert Wood Johnson University Hospital, New Jersey

INVITED PRESENTATIONS (*continued*)

LOCAL (*continued*)

- July 2017 **Infectious Diseases Research Seminar**
Antibiotic Allergies and Management Strategies
Division of Infectious Diseases, Rutgers Robert Wood Johnson Medical School
Robert Wood Johnson University Hospital, New Brunswick, New Jersey
- March 2017 **Infectious Diseases Journal Club**
Comparative effectiveness and safety of standard-, medium-, and high-dose daptomycin strategies for the treatment of VRE bacteremia among VA patients, Clin Infect Dis 2017
Division of Infectious Diseases, Rutgers Robert Wood Johnson Medical School
Robert Wood Johnson University Hospital, New Brunswick, New Jersey
- Operation Immunization 2017**
Role of Vaccinations in Global Health
Student National Pharmacist Association, Rutgers Student Chapter
Rutgers University, Ernest Mario School of Pharmacy
- December 2016 **Infectious Diseases Journal Club**
A measles outbreak in an underimmunized Amish community in Ohio, NEJM 2016
Division of Infectious Diseases, Rutgers Robert Wood Johnson Medical School
Robert Wood Johnson University Hospital, New Brunswick, New Jersey
- September 2016 **Infectious Diseases Journal Club**
Potential for Zika virus introduction and transmission in resource-limited countries in Africa and the Asia-Pacific region: modelling study. Lancet Infect Dis 2016
Division of Infectious Diseases, Rutgers Robert Wood Johnson Medical School
Robert Wood Johnson University Hospital, New Brunswick, New Jersey
- Infectious Diseases Research in Progress Conference**
Daptomycin vs Linezolid for Treatment of Vancomycin-Resistant Enterococcal Bloodstream Infections: Retrospective Cohort Study
Division of Infectious Diseases, Rutgers Robert Wood Johnson Medical School
Robert Wood Johnson University Hospital, New Brunswick, New Jersey
- June 2016 **Infectious Diseases Journal Club**
Cryptococcal meningitis treatment strategies affected by the explosive cost of flucytosine in the United States: a cost-effectiveness analysis, Clin Infect Dis 2016
Division of Infectious Diseases, Rutgers Robert Wood Johnson Medical School
Robert Wood Johnson University Hospital, New Brunswick, New Jersey
- April 2016 **Infectious Diseases Journal Club**
Trimethoprim-sulfamethoxazole vs placebo for uncomplicated skin abscess. NEJM 2016
Division of Infectious Diseases, Rutgers Robert Wood Johnson Medical School
Robert Wood Johnson University Hospital, New Brunswick, New Jersey
- Infectious Diseases Research in Progress Conference**
Febrile Neutropenia Algorithm and Candidemia Studies
Division of Infectious Diseases, Rutgers Robert Wood Johnson Medical School
Robert Wood Johnson University Hospital, New Brunswick, New Jersey
- World Immunization Week 2016**
Global Impact of Vaccines: Lessons throughout History
Student National Pharmacist Association, Rutgers Student Chapter
- February 2016 **Infectious Diseases Journal Club**
Gatifloxacin vs ceftriaxone for uncomplicated enteric fever in Nepal: an open-label, two-centre, randomised controlled trial. Lancet Infect Dis 2016
Division of Infectious Diseases, Rutgers Robert Wood Johnson Medical School

INVITED PRESENTATIONS *(continued)*

LOCAL *(continued)*

- January 2016 **Emergency Medicine Resident Conference**
Antibiotic Resistance
Department of Emergency Medicine, Rutgers Robert Wood Johnson Medical School
- December 2015 **Infectious Diseases Journal Club**
Efficacy of an rVSV-vectored vaccine expressing Ebola surface glycoprotein: interim results from the Guinea ring vaccination cluster-randomized trial. Lancet 2015
Division of Infectious Diseases, Rutgers Robert Wood Johnson Medical School
Robert Wood Johnson University Hospital, New Brunswick, New Jersey
- November 2015 **Infectious Diseases Research Seminar**
Antibiotic Allergies and Management Strategies
Division of Infectious Diseases, Rutgers Robert Wood Johnson Medical School
Robert Wood Johnson University Hospital, New Brunswick, New Jersey
- September 2015 **Infectious Diseases Journal Club**
Improving clinical outcomes in patients with methicillin-sensitive Staphylococcus aureus bacteremia and reported penicillin allergy. Clin Infect Dis 2015
Division of Infectious Diseases, Rutgers Robert Wood Johnson Medical School
Robert Wood Johnson University Hospital, New Brunswick, New Jersey
- June 2015 **Infectious Diseases Journal Club**
Trial of short-course antimicrobial therapy for intraabdominal infection. NEJM 2015
Division of Infectious Diseases, Rutgers Robert Wood Johnson Medical School
Robert Wood Johnson University Hospital, New Brunswick, New Jersey
- May 2015 **Infectious Diseases Research in Progress Conference**
ESBL-Enterobacteriaceae Bacteremia Study
Division of Infectious Diseases, Rutgers Robert Wood Johnson Medical School
Robert Wood Johnson University Hospital, New Brunswick, New Jersey
- April 2015 **Global Health Goals & Strategy: A Focus on HIV/AIDS**
American College of Clinical Pharmacy, Rutgers Student Chapter
Rutgers University, Ernest Mario School of Pharmacy
- Infectious Diseases Journal Club**
High-dose amoxicillin plus probenecid is highly effective for syphilis in patients with HIV infection. Clin Infect Dis 2015
Division of Infectious Diseases, Rutgers Robert Wood Johnson Medical School
Robert Wood Johnson University Hospital, New Brunswick, New Jersey
- Infectious Diseases Research Seminar**
Antimalarial Drug Resistance: Emergence and Spread of Artemisinin Resistance
Division of Infectious Diseases, Rutgers Robert Wood Johnson Medical School
Robert Wood Johnson University Hospital, New Brunswick, New Jersey
- February 2015 **Infectious Diseases Journal Club**
Combination antifungal therapy for invasive aspergillosis. Ann Intern Med 2015
Division of Infectious Diseases, Rutgers Robert Wood Johnson Medical School
Robert Wood Johnson University Hospital, New Brunswick, New Jersey
- November 2014 **Infectious Diseases Journal Club**
Cohort study of the impact of time to antibiotic administration on mortality in patients with febrile neutropenia. Antimicrob Agents Chemother 2014
Division of Infectious Diseases, Rutgers Robert Wood Johnson Medical School
Robert Wood Johnson University Hospital, New Brunswick, New Jersey

INTERNAL PUBLICATIONS

Narayanan N. Penicillin Allergies. *Pharmacotherapy Phorum*. Robert Wood Johnson University Hospital, Pharmacy Department Clinical Newsletter. November 2014, Volume 1, Number 3.

REFERENCES

Available Upon Request

APPENDIX A (Clinical Activities)

CLINICAL ACTIVITIES

CLINICAL PROTOCOL/GUIDELINE & POLICY DEVELOPMENT

December 2023	Rezafungin Formulary Review & Restriction Robert Wood Johnson University Hospital, New Brunswick, New Jersey
	Lymphoma & Multiple Myeloma Prophylaxis Guidelines Robert Wood Johnson University Hospital, New Brunswick, New Jersey
September 2023	Sulbactam-Durlobactam Formulary Review & Restriction Robert Wood Johnson University Hospital, New Brunswick, New Jersey
June 2023	Diabetic Foot Infection Treatment Guidelines Robert Wood Johnson University Hospital, New Brunswick, New Jersey
	Leukemia Prophylaxis Guidelines Robert Wood Johnson University Hospital, New Brunswick, New Jersey
	Febrile Neutropenia Management Guidelines Robert Wood Johnson University Hospital, New Brunswick, New Jersey
	Formulary Extension: Bezlotoxumab Robert Wood Johnson University Hospital, New Brunswick, New Jersey
March 2023	2022 Adult and Pediatric Antibiograms Robert Wood Johnson University Hospital/Bristol-Myers Squibb Children's Hospital New Brunswick, New Jersey
January 2023	Extended Infusion Beta-Lactam Dosing (Cefepime, Meropenem) RWJBarnabas Health, NJ
December 2022	Cefpodoxime Formulary Review/Addition Robert Wood Johnson University Hospital, New Brunswick, New Jersey
	Skin and Soft Tissue Infection Treatment Guidelines Robert Wood Johnson University Hospital, New Brunswick, New Jersey
September 2022	Pharmacy to Dose Vancomycin Consult (Epic) Policy/Procedure Robert Wood Johnson University Hospital, New Brunswick, New Jersey
	COVID-19 Treatment Guidelines (update) Robert Wood Johnson University Hospital, New Brunswick, New Jersey
	Adult Antimicrobial Dosing Guidelines (update) Robert Wood Johnson University Hospital, New Brunswick, New Jersey
	Community-Acquired Pneumonia Treatment Guidelines Robert Wood Johnson University Hospital, New Brunswick, New Jersey
June 2022	Monkeypox Antiviral Treatment Guide Robert Wood Johnson University Hospital, New Brunswick, New Jersey
	Paxlovid Formulary Review & Restriction Robert Wood Johnson University Hospital, New Brunswick, New Jersey

June 2022	<p>Praziquantel Formulary Review & Restriction Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p> <p>Artesunate Formulary Review & Restriction Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p>
March 2022	<p>2021 Adult and Pediatric Antibigrams Robert Wood Johnson University Hospital/Bristol-Myers Squibb Children's Hospital New Brunswick, New Jersey</p> <p>Maribavir Formulary Review & Restriction Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p> <p>Plazomicin Formulary Review & Restriction Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p>
September 2021	<p>Eravacycline Formulary Review & Restriction Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p> <p>Drug Class Formulary Review: HIV Antiretrovirals Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p> <p>COVID-19 Treatment Guidelines (update) Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p>
June 2021	<p>2020 Adult and Pediatric Antibigrams Robert Wood Johnson University Hospital/Bristol-Myers Squibb Children's Hospital New Brunswick, New Jersey</p> <p>Antimalarial Agents Formulary Review & Restriction Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p>
April 2021	<p>Artemether-Lumefantrine Formulary Review & Restriction Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p> <p>Bezlotoxumab Formulary Review & Restriction Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p>
March 2021	<p>2020 Adult and Pediatric Antibigrams Robert Wood Johnson University Hospital/Bristol-Myers Squibb Children's Hospital New Brunswick, New Jersey</p>
September 2020	<p>Influenza Antiviral Treatment Guidelines: 2020-2021 (update) Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p> <p>Guidance for Use of New Antibiotics for MDR Gram-Negatives & Microbiology Reflex Susceptibility Testing Algorithm (update) Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p> <p>Dalbavancin Formulary Review & Restriction Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p>
August 2020	<p>Oral ribavirin for treatment of RSV in adult oncology patients Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p>
June 2020	<p>Imipenem/Cilastatin/Relebactam Formulary Review & Restriction Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p> <p>Cefiderocol Formulary Review & Restriction Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p>

March 2020	<p>COVID-19 Treatment Guidelines (Hospital and Health System) Robert Wood Johnson University Hospital, New Brunswick, New Jersey RWJBarnabas Health, New Jersey</p> <p>2019 Adult and Pediatric Antibigrams Robert Wood Johnson University Hospital/Bristol-Myers Squibb Children's Hospital New Brunswick, New Jersey</p>
December 2019	<p>Piperacillin-Tazobactam Loading Dose for Extended Infusion Dosing Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p>
July 2019	<p>Rapid Diagnostic Antimicrobial Stewardship Protocol (<i>Accelerate Pheno GN</i>) Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p>
June 2019	<p>Vancomycin Dosing and Monitoring by Pharmacist Policy/Procedure Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p> <p>2018 Adult and Pediatric Antibigrams Robert Wood Johnson University Hospital/Bristol-Myers Squibb Children's Hospital New Brunswick, New Jersey</p> <p>Adult Antimicrobial Dosing Guidelines (update) Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p> <p>Polymyxin B Formulary Review & Restriction Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p> <p>Hematology/Oncology & Bone Marrow Transplant Antifungal Prophylaxis Guidelines (update) Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p>
March 2019	<p>Guidelines for Dosing and Monitoring (AUC-Based) IV Vancomycin RWJBarnabas Health System, New Jersey</p>
October 2018	<p>Guidance for Use of New Antibiotics for MDR Gram-Negatives & Microbiology Reflex Susceptibility Testing Algorithm Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p>
September 2018	<p>Meropenem/Vaborbactam Formulary Review & Restriction Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p> <p>Fidaxomicin Formulary Review & Restriction Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p>
July 2018	<p>DoseMeRx Pharmacokinetic Bayesian Dosing Software Infectious Diseases Drug Dosing Models RWJBarnabas Health System, New Jersey</p> <p>Letemovir Formulary Review & Restriction Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p> <p>Bictegravir/FTC/TAF Formulary Review & Restriction Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p>
March 2018	<p>2017 Adult and Pediatric Antibigrams Robert Wood Johnson University Hospital/Bristol-Myers Squibb Children's Hospital New Brunswick, New Jersey</p>
October 2017	<p>Adult, Pediatric and Neonatal EMR-based Antibiotic Timeout Robert Wood Johnson University Hospital/Bristol-Myers Squibb Children's Hospital New Brunswick, New Jersey</p>

October 2017	<p>Oritavancin (versus Dalbavancin) Formulary Review & Restriction: Addition to Emergency Department Observation Unit Cellulitis Protocol Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p>
August 2017	<p>Piperacillin/Tazobactam Audit and Feedback by Staff Pharmacist Robert Wood Johnson University Hospital/Bristol-Myers Squibb Children's Hospital New Brunswick, New Jersey</p>
June 2017	<p>2016 Adult and Pediatric Antibigrams Robert Wood Johnson University Hospital/Bristol-Myers Squibb Children's Hospital New Brunswick, New Jersey</p> <p>Antifungal Therapeutic Drug Monitoring Guidelines Adult Cystic Fibrosis Outpatient Clinic, Rutgers Robert Wood Johnson Medical School</p> <p>Pediatric EMR- based Antibiotic Indications Bristol-Myers Squibb Children's Hospital New Brunswick, New Jersey</p> <p>Drug Class Formulary Review: HIV Antiretrovirals Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p>
May 2017	<p>Rapid Diagnostic Antimicrobial Stewardship Protocol (<i>Verigene GP-panel</i>) Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p>
March 2017	<p>Adult EMR-based Antibiotic Indications Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p>
January 2017	<p>Adult Antimicrobial Utilization Metrics (2016 & 2012-2016) Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p> <p>Peramivir Formulary Review & Restriction Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p> <p>Influenza Antiviral Treatment Guidelines: 2016-2017 (update) Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p> <p>Antibiotic Indications Policy RWJBarnabas Health System, New Jersey</p>
October 2016	<p>Adult Antimicrobial Dosing Guidelines (update) Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p>
July 2016	<p>2015 Adult and Pediatric Antibigram Robert Wood Johnson University Hospital/Bristol-Myers Squibb Children's Hospital New Brunswick, New Jersey</p>
December 2015	<p>Bone Marrow Transplant: Prophylaxis Against Invasive Fungal Infections Policy Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p> <p>Hematology/Oncology & Bone Marrow Transplant Antifungal Prophylaxis Guidelines Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p> <p>Isavuconazole Formulary Review & Restriction Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p>
December 2015	<p>Posaconazole IV Formulary Removal Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p> <p>Emergency Department Observation Unit Cellulitis Protocol Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p>

December 2015	<p>Influenza Antiviral Treatment Guidelines: 2015-2016 (update) Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p> <p>Colon Surgical Site Infection Prevention Bundle & Order Set Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p>
November 2015	<p>Rapid Diagnostic Antimicrobial Stewardship Protocol (<i>Staphylococcus</i> spp.) Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p>
August 2015	<p>Febrile Neutropenia Antimicrobial Treatment Guidelines Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p> <p>Surgical Antimicrobial Prophylaxis Guidelines Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p> <p>Aztreonam Restriction Policy Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p>
June 2015	<p>Ceftolozane/Tazobactam Formulary Review & Restriction Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p> <p>Cefepime Adult Formulary Extension for Febrile Neutropenia Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p> <p>Low-Dose Cidofovir Protocol for Treatment of BK Virus in Allogeneic HSCT Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p> <p>2014 Adult and Pediatric Antibiograms Robert Wood Johnson University Hospital/Bristol-Myers Squibb Children's Hospital New Brunswick, New Jersey</p> <p>Adult Antimicrobial Utilization Metrics (2014 & 2012-2015) Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p>
March 2015	<p>Pediatric Vancomycin Dosing Guidelines Bristol-Myers Squibb Children's Hospital at Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p> <p>Dolutegravir Formulary Review & Restriction Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p>
February 2015	<p>Adult Antimicrobial Dosing Guidelines Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p> <p>Colistin Dosing Protocol Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p>
January 2015	<p>Influenza Antiviral Treatment Guidelines: 2014-2015 & Oseltamivir Restriction Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p> <p>Sepsis Antimicrobials Order Set Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p>
October 2014	<p>Posaconazole IV and Tablet Formulary Review & Restriction Robert Wood Johnson University Hospital, New Brunswick, New Jersey</p>

APPENDIX B (Teaching and Mentoring)

TEACHING

PharmD Students, Rutgers University, Ernest Mario School of Pharmacy

Academic Year	Semester	Course Number and Title	Teaching Contribution	Credits	Class Size
2014-2015	Fall	31:725:578:01 Strategies of HIV Therapy	Lecturer (2.5 hours)	2	25
2014-2015	Spring	30:725:475 Infectious Diseases Therapeutics	Lecturer (3 hours)	3	220
2014-2015	Spring	31:725:797 Adv. Practice Experience VII (Infectious Diseases Clerkship)	Preceptor	5	2
2014-2015	Spring	31:725:797 Adv. Practice Experience VIII (Infectious Diseases Clerkship)	Preceptor	5	2
2014-2015	Spring	31:725:797 Adv. Practice Experience IX (Infectious Diseases Clerkship)	Preceptor	5	2
2014-2015	Spring	31:725:617 Pharmacy Reflection Seminar (Post Rotation Evaluation and Preparation)	Lecturer (1 hour)	2	200
2015-2016	Summer	Adv. Practice Experience Orientation	Lecturer (1 hour)	-	200
2015-2016	Summer	31:725:797 Adv. Practice Experience II (Infectious Diseases Clerkship)	Preceptor	5	3
2015-2016	Summer	31:725:797 Adv. Practice Experience III (Infectious Diseases Clerkship)	Preceptor	5	3
2015-2016	Fall	31:725:797 Adv. Practice Experience V (Infectious Diseases Clerkship)	Preceptor	5	3
2015-2016	Fall	31:725:578:01 Strategies of HIV Therapy	Lecturer (6 hours)	2	25
2015-2016	Fall	31:725:579:01 Advanced Pharmacotherapy Applications	Lecturer (4 hours)	2	30
2015-2016	Fall	31:725:797 Adv. Practice Experience VII (Infectious Diseases Clerkship)	Preceptor	5	3
2015-2016	Fall	31:725:797 Adv. Practice Experience VIII (Infectious Diseases Clerkship)	Preceptor	5	3
2015-2016	Spring	30:725:475 Infectious Diseases Therapeutics	Lecturer (7 hours)	3	220
2015-2016	Spring	31:725:617 Pharmacy Reflection Seminar (Post Rotation Evaluation and Preparation)	Lecturer (1 hour)	2	200
2016-2017	Summer	Adv. Practice Experience Orientation	Lecturer (1 hour)	-	200
2016-2017	Summer	31:725:797 Adv. Practice Experience I (Infectious Diseases Clerkship)	Preceptor	5	2
2016-2017	Summer	EOF Pre-College Summer Program (Introduction to Pharmacy Practice)	Course Coordinator and Lecturer (16 hours)	-	20
2016-2017	Summer	31:725:797 Adv. Practice Experience II (Infectious Diseases Clerkship)	Preceptor	5	2
2016-2017	Fall	31:725:797 Adv. Practice Experience IV (Infectious Diseases Clerkship)	Preceptor	5	2
2016-2017	Fall	31:725:578:01 Strategies of HIV Therapy	Lecturer (6 hours)	2	25
2016-2017	Fall	31:725:579:01 Advanced Pharmacotherapy Applications	Lecturer (4 hours)	2	30
2016-2017	Fall	31:725:797 Adv. Practice Experience VI (Infectious Diseases Clerkship)	Preceptor	5	2
2016-2017	Fall	31:725:797 Adv. Practice Experience VII (Infectious Diseases Clerkship)	Preceptor	5	2
2016-2017	Spring	30:725:475 Infectious Diseases Therapeutics	Lecturer (7 hours)	3	200

PharmD Students, Rutgers University, Ernest Mario School of Pharmacy (continued)

Academic Year	Semester	Course Number and Title	Teaching Contribution	Credits	Class Size
2016-2017	Spring	31:725:617 Pharmacy Reflection Seminar (Post Rotation Evaluation and Preparation)	Lecturer (1 hour)	2	200
2016-2017	Spring	31:725:797 Adv. Practice Experience IX (Infectious Diseases Clerkship)	Preceptor	5	2
2017-2018	Summer	Adv. Practice Experience Orientation	Lecturer (1 hour)	-	200
2017-2018	Summer	31:725:797 Adv. Practice Experience II (Infectious Diseases Clerkship)	Preceptor	5	2
2017-2018	Summer	EOF Pre-College Summer Program (Introduction to Pharmacy Practice)	Course Coordinator and Lecturer (16 hours)	-	20
2017-2018	Summer	31:725:797 Adv. Practice Experience III (Infectious Diseases Clerkship)	Preceptor	5	3
2017-2018	Fall	31:725:797 Adv. Practice Experience V (Infectious Diseases Clerkship)	Preceptor	5	3
2017-2018	Fall	31:725:578:01 Strategies of HIV Therapy	Lecturer (4 hours)	2	15
2017-2018	Fall	31:725:579:01 Advanced Pharmacotherapy Applications	Lecturer (4 hours)	2	30
2017-2018	Spring	30:725:475 Infectious Diseases Therapeutics	Lecturer (7 hours)	3	200
2017-2018	Spring	31:725:797 Adv. Practice Experience VII (Infectious Diseases Clerkship)	Preceptor	5	2
2017-2018	Spring	31:725:797 Adv. Practice Experience VIII (Infectious Diseases Clerkship)	Preceptor	5	2
2017-2018	Spring	31:725:797 Adv. Practice Experience IX (Infectious Diseases Clerkship)	Preceptor	5	2
2018-2019	Summer	Adv. Practice Experience Orientation	Lecturer (1 hour)	-	200
2018-2019	Summer	31:725:797 Adv. Practice Experience II (Infectious Diseases Clerkship)	Preceptor	5	3
2018-2019	Summer	EOF Pre-College Summer Program (Introduction to Pharmacy Practice)	Course Coordinator and Lecturer (17 hours)	-	15
2018-2019	Summer	31:725:797 Adv. Practice Experience III (Infectious Diseases Clerkship)	Preceptor	5	3
2018-2019	Fall	31:725:578:01 Strategies of HIV Therapy	Lecturer (4 hours)	2	20
2018-2019	Fall	31:725:579:01 Advanced Pharmacotherapy Applications	Lecturer (4 hours)	2	30
2018-2019	Fall	31:725:797 Adv. Practice Experience VI (Infectious Diseases Clerkship)	Preceptor	5	3
2018-2019	Spring	30:720:446 Infectious Diseases Pharmacotherapy	Lecturer (9 hours)	4	200
2018-2019	Spring	30:725:433 integrated Pharmacotherapy Skills Series (iPASS) III	Lecturer (6.5 hours)	2	200
2019-2020	Summer	Adv. Practice Experience Orientation	Lecturer (1 hour)	-	200
2019-2020	Summer	31:725:797 Adv. Practice Experience II (Infectious Diseases Clerkship)	Preceptor	5	3
2019-2020	Summer	EOF Pre-College Summer Program (Introduction to Pharmacy Practice)	Course Coordinator and Lecturer (17 hours)	-	15
2019-2020	Summer	31:725:797 Adv. Practice Experience III (Infectious Diseases Clerkship)	Preceptor	5	3
2019-2020	Fall	31:725:797 Adv. Practice Experience V (Infectious Diseases Clerkship)	Preceptor	5	3
2019-2020	Fall	31:725:578:01 Strategies of HIV Therapy	Lecturer (6 hours)	2	20
2019-2020	Fall	31:725:579:01 Advanced Pharmacotherapy Applications	Lecturer (4 hours)	2	30
2019-2020	Spring	31:725:797 Adv. Practice Experience VII (Infectious Diseases Clerkship)	Preceptor	5	3

2019-2020	Spring	30:720:446 Infectious Diseases Pharmacotherapy	Lecturer (9 hours)	4	200
2019-2020	Spring	30:725:433 integrated Pharmacotherapy Skills Series (iPASS) III	Lecturer (6.5 hours)	2	200
2019-2020	Spring	30:725:405 Leadership, Entrepreneurship & Innovation, Assessment of Self, Professionalism (LEAP) IV Seminar	Lecture (1.5 hours)	-	200
2020-2021	Summer	Adv. Practice Experience Orientation	Lecturer (1 hour)	-	200
2020-2021	Summer	31:725:797 Adv. Practice Experience II (Infectious Diseases Clerkship)	Preceptor	5	3
2020-2021	Summer	31:725:797 Adv. Practice Experience III (Infectious Diseases Clerkship)	Preceptor	5	3
2020-2021	Fall	31:725:578:01 Strategies of HIV Therapy	Course Co-Coordinator & Lecturer (8 hours)	2	20
2020-2021	Fall	30:725:320 Foundations of Pharmacy Care	Lecturer (2 hours)	4	200
2020-2021	Fall	31:725:579:01 Advanced Pharmacotherapy Applications	Lecturer (4 hours)	2	30
2020-2021	Fall	31:725:797 Adv. Practice Experience V (Infectious Diseases Clerkship)	Preceptor	5	2
2020-2021	Fall	31:725:797 Adv. Practice Experience VI (Infectious Diseases Clerkship)	Preceptor	5	3
2020-2021	Fall	31:725:797 Adv. Practice Experience VII (Infectious Diseases Clerkship)	Preceptor	5	3
2020-2021	Spring	30:720:446 Infectious Diseases Pharmacotherapy	Course Co-Coordinator & Lecturer (11 hours)	4	200
2020-2021	Spring	30:725:433 integrated Pharmacotherapy Skills Series (iPASS) III	Lecturer (13 hours)	2	200
2020-2021	Spring	30:725:405 Leadership, Entrepreneurship & Innovation, Assessment of Self, Professionalism (LEAP) IV Seminar	Lecture (1.5 hours)	-	200
2021-2022	Summer	31:725:797 Adv. Practice Experience I (Infectious Diseases Clerkship)	Preceptor	5	3
2021-2022	Summer	EOF Pre-College Summer Program (Introduction to Pharmacy Practice)	Course Coordinator and Lecturer (5 hours)	-	6
2021-2022	Summer	31:725:797 Adv. Practice Experience III (Infectious Diseases Clerkship)	Preceptor	5	3
2021-2022	Fall	31:725:578:01 Strategies of HIV Therapy	Course Co-Coordinator & Lecturer (6 hours)	2	20
2021-2022	Fall	30:725:320 Foundations of Pharmacy Care	Lecturer (2 hours)	4	200
2021-2022	Fall	31:725:579:01 Advanced Pharmacotherapy Applications	Lecturer (4 hours)	2	30
2021-2022	Spring	31:725:797 Adv. Practice Experience VII (Infectious Diseases Clerkship)	Preceptor	5	3
2021-2022	Spring	31:725:797 Adv. Practice Experience VIII (Infectious Diseases Clerkship)	Preceptor	5	3
2021-2022	Spring	30:720:446 Infectious Diseases Pharmacotherapy	Course Co-Coordinator & Lecturer (12 hours)	4	200
2021-2022	Spring	30:725:433 integrated Pharmacotherapy Skills Series (iPASS) III	Lecturer (13 hours)	2	200
2021-2022	Spring	30:725:405 Leadership, Entrepreneurship & Innovation, Assessment of Self, Professionalism (LEAP) IV Seminar	Lecture (1.5 hours)	-	200
2021-2022	Summer	EOF Pre-College Summer Program (Introduction to Pharmacy Practice)	Course Coordinator and Lecturer (16 hours)	-	8
2022-2023	Summer	31:725:797 Adv. Practice Experience II (Infectious Diseases Clerkship)	Preceptor	5	3
2022-2023	Summer	31:725:797 Adv. Practice Experience III (Infectious Diseases Clerkship)	Preceptor	5	3

2022-2023	Fall	31:725:797 Adv. Practice Experience V (Infectious Diseases Clerkship)	Preceptor	5	3
2022-2023	Fall	31:725:797 Adv. Practice Experience VII (Infectious Diseases Clerkship)	Preceptor	5	3
2022-2023	Fall	31:725:578:01 Strategies of HIV Therapy	Course Co-Coordinator & Lecturer (4 hours)	2	20
2022-2023	Fall	30:725:320 Foundations of Pharmacy Care	Lecturer (2 hours)	4	200
2022-2023	Spring	30:720:446 Infectious Diseases Pharmacotherapy	Course Co-Coordinator & Lecturer (12 hours)	4	200
2022-2023	Spring	30:725:433 integrated Pharmacotherapy Skills Series (iPASS) III	Lecturer (13 hours)	2	200
2022-2023	Spring	31:725:617 Pharmacy Reflection Seminar (Post Rotation Evaluation and Preparation)	Lecturer (1 hour)	1	200
2023-2024	Summer	31:725:797 Adv. Practice Experience III (Infectious Diseases Clerkship)	Preceptor	5	2
2023-2024	Fall	31:725:797 Adv. Practice Experience V (Infectious Diseases Clerkship)	Preceptor	5	2
2023-2024	Fall	31:725:578:01 Strategies of HIV Therapy	Lecturer (4 hours)	2	20
2023-2024	Fall	30:725:320 Foundations of Pharmacy Care	Lecturer (2 hours)	4	200
2023-2024	Fall	31:725:579:01 Advanced Pharmacotherapy Applications	Lecturer (4 hours)	2	20

MSBS and MD Students, Rutgers Robert Wood Johnson Medical School

Academic Year	Semester	Course Number and Title	Teaching Contribution	Credits	Class Size
2015-2016	Fall	MSBS 5080S Primer on Global Health	Lecturer (1 hour)	2	20
2016-2017	Fall	MSBS 5080S Primer on Global Health	Lecturer (1.5 hours)	2	25
2017-2018	Fall	MSBS 5080S Primer on Global Health	Lecturer (2 hours)	2	25
2018-2019	Fall	MSBS 5080S Primer on Global Health	Lecturer (2 hours)	2	20
2019-2020	Fall	MSBS 5080S Primer on Global Health	Lecturer (2 hours)	2	20
2020-2021	Fall	MSBS 5080S Primer on Global Health	Lecturer (2 hours)	2	20
2021-2022	Fall	MSBS 5080S Primer on Global Health	Lecturer (2 hours)	2	10
2022-2023	Fall	MSBS 5080S Primer on Global Health	Lecturer (2 hours)	2	20
2023-2024	Fall	MSBS 5080S Primer on Global Health	Lecturer (2 hours)	2	20

MD Students, Rutgers Robert Wood Johnson Medical School

Dates	Course Title	Teaching Contribution	Class Size
Spring 2015	Surgery Boot Camp (4 th Year Medical Students)	Lecturer (0.5 hours): <i>Antimicrobial Prophylaxis in Surgery</i>	10
Spring 2015	Medicine Boot Camp (4 th Year Medical Students)	Lecturer (1 hour): <i>Medication Management (IM/ID)</i>	40
Spring 2017	Antibiotic Stewardship Jigsaw (1 st Year Medical Students)	Faculty Facilitator (1.5 hours)	30
Spring 2018	ID/Antibiotic Stewardship EBM Jigsaw (1 st Year Medical Students)	Faculty Facilitator (2 hours)	35
Spring 2019	ID/Antibiotic Stewardship EBM Jigsaw (1 st Year Medical Students)	Faculty Facilitator (2 hours)	35

Physician Assistant Program, Rutgers School of Health Professions

Dates	Course Title	Teaching Contribution	Class Size
May 2018	Physician Assistant Certification and Recertification Review Course	Lecturer (1 hour): <i>Antimicrobial Review</i>	30
September 2018	PHYA 5152 – Cardiology, Pulmonology and Peripheral Vascular Medicine (2 nd Year PA Students)	Lecturer (1.5 hours): <i>Antibiotics</i>	50
May 2019	Physician Assistant Certification and Recertification Review Course	Lecturer (1 hour): <i>Antimicrobial Review</i>	30
September 2019	PHYA 5152 – Cardiology, Pulmonology and Peripheral Vascular Medicine (2 nd Year PA Students)	Lecturer (1.5 hours): <i>Antibiotics</i>	50
December 2019	PHYA 5155 – Infectious Diseases, Hematologic and Oncologic Systems (2 nd Year PA Students)	Lecturer (6 hours): <i>Infectious Diseases 1 & 2</i>	50
July 2020	Physician Assistant Certification and Recertification Review Course	Lecturer (1 hour): <i>Antimicrobial Review</i>	30
September 2020	PHYA 5152 – Cardiology, Pulmonology and Peripheral Vascular Medicine (2 nd Year PA Students)	Lecturer (1.5 hours): <i>Antibiotics</i>	50
December 2020	PHYA 5155 – Infectious Diseases, Hematologic and Oncologic Systems (2 nd Year PA Students)	Lecturer (6 hours): <i>Infectious Diseases 1 & 2</i>	50
August 2021	PHYA 5152 – Cardiology, Pulmonology and Peripheral Vascular Medicine (2 nd Year PA Students)	Lecturer (2 hours): <i>Antibiotics</i>	50
May 2022	Physician Assistant Certification and Recertification Review Course	Lecturer (1 hour): <i>Antimicrobial Review</i>	25
August 2022	PHYA 5152 – Cardiology, Pulmonology and Peripheral Vascular Medicine (2 nd Year PA Students)	Lecturer (1.5 hours): <i>Antibiotics</i>	50

Pharmacy Residency Program, Infectious Diseases Preceptor, Robert Wood Johnson University Hospital

Dates	Trainee	Rotation
October – November 2014	Post-Doctoral Drug Information Fellow	General Infectious Diseases
January – February 2015	PGY-1 Pharmacy Resident	General Infectious Diseases
February – March 2015	PGY-1 Pharmacy Resident	General Infectious Diseases
October 2015 – November 2015	PGY-1 Pharmacy Resident	General Infectious Diseases
January 2016 – February 2016	PGY-1 Pharmacy Resident	General Infectious Diseases
May 2016 – June 2016	PGY-1 Pharmacy Resident	Oncology-Infectious Diseases
November 2016 – December 2016	PGY-1 Pharmacy Resident	General Infectious Diseases
November 2016 – December 2016	Post-Doctoral Drug Information Fellow	General Infectious Diseases
February 2017 – March 2017	PGY-1 Pharmacy Resident	General Infectious Diseases
March 2017 – April 2017	PGY-1 Pharmacy Residents (2)	General Infectious Diseases
October 2017 – November 2017	PGY-1 Pharmacy Resident	General Infectious Diseases
January 2018 – February 2018	PGY-1 Pharmacy Resident	General Infectious Diseases
August 2018 – September 2018	PGY-1 Pharmacy Resident	General Infectious Diseases
February 2019 – March 2019	PGY-1 Pharmacy Resident	General Infectious Diseases
May 2019	PGY-1 Pharmacy Resident	Oncology-Infectious Diseases
October 2019 – November 2019	PGY-1 Pharmacy Resident	General Infectious Diseases
January 2020 – February 2020	PGY-1 Pharmacy Resident	General Infectious Diseases
June 2020	PGY-1 Pharmacy Resident	Oncology-Infectious Diseases
August 2020	PGY-1 Pharmacy Resident	General Infectious Diseases
February 2021	PGY-1 Pharmacy Resident	General Infectious Diseases
June 2021	PGY-1 Pharmacy Resident	Oncology-Infectious Diseases
January 2022	PGY-1 Pharmacy Resident	General Infectious Diseases

February 2022	PGY-1 Pharmacy Resident	General Infectious Diseases
August 2022	PGY-1 Pharmacy Resident	General Infectious Diseases
January 2023	PGY-1 Pharmacy Resident	General Infectious Diseases
August 2023	PGY-1 Pharmacy Resident	General Infectious Diseases

Infectious Diseases Fellowship, Division of infectious Diseases, Rutgers Robert Wood Johnson Medical School / Robert Wood Johnson University Hospital

Dates	Lecture/Rotation Title	Faculty Role
May 2015	<i>Fellows Conference: Antimicrobial Pharmacokinetics and Pharmacodynamics</i>	Lecturer
August 2015	<i>Fellows Conference: Antimicrobial Pharmacokinetics and Pharmacodynamics</i>	Lecturer
April 2017	<i>Fellows Conference: Primer on Study Design and Biostatistics</i>	Lecturer
April 2017	<i>Fellows Conference: Antimicrobial Pharmacokinetics and Pharmacodynamics</i>	Lecturer
October 2019	<i>Fellows Conference: Antimicrobial Pharmacokinetics and Pharmacodynamics</i>	Lecturer
July 2020	<i>Fellows Conference: Introduction to Antimicrobial Stewardship</i>	Lecturer
August 2020	<i>Fellows Conference: Antibiotics 101</i>	Lecturer
May 2021	<i>Fellows Conference: Aminoglycoside and Antifungal PK/PD and Dosing/Monitoring Strategies</i>	Lecturer
July 2021	<i>Fellows Conference: Antibiotics for Gram-Positives Bacteria</i>	Lecturer
July 2021	<i>Fellows Conference: Antibiotics for Gram-Negative Bacteria</i>	Lecturer
July 2021	<i>Fellows Conference: Antimicrobial Pharmacokinetics and Pharmacodynamics</i>	Lecturer
August 2021	<i>Fellows Conference: Aminoglycosides and Vancomycin Dosing and TDM</i>	Lecturer
September 2021	<i>Fellows Conference: ID Pharmacotherapy Cases</i>	Lecturer
July 2022	<i>Fellows Conference: Antibiotics for Gram-Positives Bacteria</i>	Lecturer
July 2022	<i>Fellows Conference: Antibiotics for Gram-Negative Bacteria</i>	Lecturer
August 2022	<i>Fellows Conference: Antimicrobial Pharmacokinetics and Pharmacodynamics</i>	Lecturer
March 2023	<i>Fellows Conference: HIV Antiretroviral Drug Interactions</i>	Lecturer
July 2023	<i>Fellows Conference: Antibiotics for Gram-Positives Bacteria</i>	Lecturer
July 2023	<i>Fellows Conference: Antibiotics for Gram-Negative Bacteria</i>	Lecturer
July 2023	<i>Fellows Conference: Antimicrobial Pharmacokinetics and Pharmacodynamics</i>	Lecturer
September 2023	<i>Fellows Conference: ID Pharmacotherapy Cases</i>	Lecturer

MENTORING

Students/Residents Supervised or Mentored

Dates	Name	Degree/Residency Program or School	Faculty Role
2014-2015	Randy Jackson, MD	MD Student, Rutgers Robert Wood Johnson Medical School	Research Advisor
2015-2016	Paul Avenoso, PharmD	PGY-1 Pharmacy Resident, Robert Wood Johnson University Hospital	Research Advisor
2015-2016	Tara Jawaro, PharmD	PGY-1 Pharmacy Resident, Robert Wood Johnson University Hospital	Continuing Education Program Advisor
2015-2016	Brittany Parlow, MD	PGY-3 Pediatric Medical Resident, Bristol-Myers Squibb Children's Hospital	Research Advisor
2016 - 2017	Shaili Adani, PharmD	PGY-1 Pharmacy Resident, Robert Wood Johnson University Hospital	Research Advisor

2016 – 2017	Vaibhavi Bhavsar, PharmD	PGY-1 Pharmacy Resident, Robert Wood Johnson University Hospital	Research Advisor
2016 – 2017	Michael Hogan, PharmD	Post-Doctoral Fellow, Rutgers Industry Fellowship Program	Research Advisor
2016 – 2017	Rena Rai, PharmD	PharmD Student, Rutgers Ernest Mario School of Pharmacy	Research Advisor
2016 – 2017	Parth Vaidya, PharmD	PharmD Student, Rutgers Ernest Mario School of Pharmacy	Research Advisor
2016 – 2017	Rashi Sharma, MD	Infectious Diseases Fellow, Rutgers Robert Wood Johnson Medical School	Research Co-Advisor
2017 – 2018	James Pang, MD	PGY-3 Pediatric Medical Resident, Bristol-Myers Squibb Children’s Hospital	Research Co-Advisor
2017 – 2018	Jaklin Hanna, PharmD	PGY-1 Pharmacy Resident, Robert Wood Johnson University Hospital	Research Co-Advisor
2017 – 2019	Liya Johnson, PharmD	PharmD Student, Rutgers Ernest Mario School of Pharmacy	Research Advisor
2017 – 2019	Cheryl Mathew, PharmD	PharmD Student, Rutgers Ernest Mario School of Pharmacy	Research Advisor
2018 – 2019	Raghad Saadi, PharmD	PGY-2 Emergency Medicine Pharmacy Resident, Rutgers Ernest Mario School of Pharmacy	Research Co-Advisor
2018 – 2019	Parth Parikh, PharmD	PGY-2 Emergency Medicine Pharmacy Resident, Rutgers Ernest Mario School of Pharmacy	Research Co-Advisor
2018 – 2019	Sana Mohayya, PharmD, MHS	PGY-1 Pharmacy Resident, Robert Wood Johnson University Hospital	Research Advisor
2019 – 2020	Priscilla Winston-Laryea, MPH	MPH Student, Rutgers School of Public Health	Practicum Research Co-Advisor
2019 – 2021	Mohammad Arsalan, MD	Infectious Diseases Fellow, Rutgers Robert Wood Johnson Medical School	Research Co-Advisor
2020 – 2021	Michelle Fuksman	PharmD Student, Blaser Lab, Rutgers Center for Advanced Biotechnology and Medicine	Research Co-Advisor
2020 – 2021	Shivani Patel, PharmD	PGY-1 Pharmacy Resident, Robert Wood Johnson University Hospital	Continuing Education Program Advisor
2020 – 2021	Sonia Jacob, PharmD	Post-Doctoral Fellow, Rutgers Industry Fellowship Program	Research Advisor
2020 – 2021	Ha Young Ryu, PharmD	PGY-1 Pharmacy Resident, Robert Wood Johnson University Hospital	Research Advisor
2021 – 2022	Ashley Yeh, PharmD	PGY-2 Emergency Medicine Pharmacy Resident, Rutgers Ernest Mario School of Pharmacy	Research Advisor
2021 – 2022	Deena Omar, PharmD	PGY-2 Emergency Medicine Pharmacy Resident, Rutgers Ernest Mario School of Pharmacy	Research Advisor
2021 – 2022	Divya Kaminedi, MD	Infectious Diseases Fellow, Rutgers Robert Wood Johnson Medical School	Research Advisor
2022 – 2023	Laura Bennett, PhD	MPH Student, Rutgers School of Public Health	APE Research Advisor
2022 – 2023	Brijesh Rana	MS-HOPE Student, Rutgers School of Public Health & Ernest Mario School of Pharmacy	Capstone Mentor
2022 – 2023	Savan Patel, PharmD	PGY-2 Drug Information Pharmacy Resident, Rutgers Ernest Mario School of Pharmacy	Research Advisor
2022 – 2023	Kelly Reitmeyer, PharmD	PGY-1 Pharmacy Resident, Robert Wood Johnson University Hospital	Research Advisor
2022 – Present	Susanne Ajao, MD	Infectious Diseases Fellow, Rutgers Robert Wood Johnson Medical School	Research Advisor
2023 – Present	Judy Dao	PharmD Student, Rutgers Ernest Mario School of Pharmacy	Research Advisor
2023 – Present	Anirudh Vasantha Krishnan	PharmD Student, Rutgers Ernest Mario School of Pharmacy	Research Advisor

2023 – Present	Tori Pravato, PharmD	PGY-1 Pharmacy Resident, Robert Wood Johnson University Hospital	Research Co-Advisor
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