

## Kayihura Manigaba, Pharm.D.; BCIDP

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University of Florida College of Pharmacy  
Department of Pharmacotherapy and Translational Research  
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### Academic Credentials

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- 06/2012 – 05/2016 University of Tennessee College of Pharmacy (UTCOP), Memphis, TN  
**Doctor of Pharmacy, Graduated with High Honors**
- 08/2008 – 05/2012 Philander Smith College, Little Rock, AR  
**Bachelor of Science in Chemistry, Summa Cum Laude with Distinction**

### Post-graduate Education

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- 06/2017 – 06/2018 **Postgraduate Year Two (PGY2) Infectious Diseases Specialty Residency**  
American Society of Health-System Pharmacists (ASHP) Accredited  
University of Florida (UF) Health Shands Hospital; Gainesville, FL  
Program Director: Veena Venugopalan, Pharm.D., BCPS, AQ-ID
- 06/2016 – 06/2017 **Postgraduate Year One (PGY1) Pharmacy Residency**  
ASHP Accredited, UF Health Shands Hospital; Gainesville, FL  
Program Director: Carrie Lagasse, Pharm.D., BCPS

### Professional Licensure and Certification

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- 07/2019 – Present Board-Certified Infectious Diseases Pharmacist (BCIDP)
- 07/2016 – Present Florida Pharmacy License #55047
- 05/2017 Teaching Certificate  
UF College of Pharmacy, Gainesville, FL
- 08/2013 American Pharmacists Association (APhA) Pharmacy Based  
Immunization Delivery Certificate

### Professional Experience

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- 12/2021 – Present **Clinical Pharmacist – Infectious Diseases**  
UF Health Shands Hospital, Gainesville, FL
- 12/2021 – Present **Clinical Assistant Professor**  
UF College of Pharmacy, Gainesville, FL
- 09/2016 – 12/2021 **Clinical Assistant Professor (Courtesy)**  
UF College of Pharmacy, Gainesville, FL

- 08/2019 – 08/2021 **Clinical Pharmacy Manager**  
North Florida Regional Medical Center (NFRMC), Gainesville, FL
- 12/2018 – 08/2019 **Advanced Clinical Pharmacist-Infectious Diseases**  
NFRMC, Gainesville, FL
- 08/2018 – 11/2018 **Infectious Diseases Clinical Pharmacist**  
Jackson North Medical Center, Jackson Health System, Miami, FL
- 07/2017 – 07/2018 **Clinical Staff Pharmacist, Acute Care Surgery**  
UF Health Shands Hospital, Gainesville, FL
- 07/2016 – 06/2018 **Clinical Staff Pharmacist, Adult Medicine**  
UF Health Shands Hospital, Gainesville, FL

## Teaching Activities

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### University of Florida College of Pharmacy

- 12/2021 – Present **PHA5164L: 3PD Skills Lab**  
Module: Inpatient Rounding
- 12/2021 – Present **PHA5166L: 2PD Skills Lab**
- 12/2021 – Present **PHA5787C: Patient Care V Endocrinology and Reproductive**  
Module: Sexually Transmitted Infections
- 12/2021 – Present **PHA5784C: Patient Care IV Gastrointestinal and Renal Disorders**  
Modules: Management of Intra-abdominal Infections  
Communicating with patients when an error occurs
- 07/2019 – Present **PHA5782C: Patient Care II Introduction to Infectious Diseases, Hematology, and Oncology**  
Modules: Fosfomycin; Nitrofurantoin; Polymixin
- 12/2021 – Present **APPE and Pharmacy Residents Preceptor**  
Infectious Diseases Rotation, UF Health Shands Hospital
- 04/2018 **PHA4933: Medications and Health**  
Module: Infections and Antibiotics
- 04/2018 **PHA 5841: HIV Elective**  
Module: HIV Prevention: Post-Exposure Prophylaxis (PEP) and Pre-exposure Prophylaxis (PrEP)
- 02/2018 **PHA4933: Medications and Health**  
Module: Sexually Transmitted Diseases (STD's) Instructor
- 11/2017 **PHA5788C Patient Care VI**

- Capstone Facilitator
- 08/2017      **PHA5788C Patient Care VI**  
Module: Skin and Musculoskeletal Disorders: Viral Skin Infections
- 11/2016      **PHA5113: Personalized Medicine**  
Module: Pharmacogenomics Applications in Infectious Diseases
- 09/2019 – 08/2021      **APPE Preceptor**  
**Hospital Practice Rotation.** NFRMC, Gainesville, FL
- 07/2019 – 08/2021      **Pharmacy Residents Preceptor**  
**Research Rotation**  
NFRMC, Gainesville, FL
- 01/2019 – 08/2020      **APPE and Pharmacy Residents Preceptor**  
**Infectious Diseases Rotation**  
Infectious Diseases Rotation, NFRMC, Gainesville, FL
- 12/2017      **Vancomycin Pharmacokinetic Consultation Training for Pharmacists**  
Pharmacy Department. UF Health Shands Hospital, Gainesville, FL
- 10/2017      **Skin Disorders Patient Case**  
**Teaching Assistant**  
UF College of Pharmacy, Gainesville, FL
- 09/2017 – 06/2018      **Infectious Diseases Rotation Preceptor (APPE and Residents)**  
UF Health Shands Hospital, Gainesville, FL
- 09/2017      **Pharmacokinetics Case**  
**Teaching Assistant**  
UF College of Pharmacy, Gainesville, FL
- 08/2016 – 12/2016      **PHA5163L: Professional Skills lab III, Teaching Assistant**  
UF College of Pharmacy, Gainesville, FL

## **Publications**

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### **Peer-Reviewed**

- 10/2023      Alshaer MH, Williams R, Mousa MJ, et al. Cefepime Daily Exposure and the Associated Impact on the Change in Sequential Organ Failure Assessment Scores and Vasopressors Requirement in Critically Ill Patients Using Repeated-Measures Mixed-Effect Modeling. Crit Care Explor. 2023;5(11):e0993. Published 2023 Oct 27.
- 1/2023      Alshaer, M. H., Maranchick, N., Alexander, K. M., **Manigaba, K.**, Shoulders, B. R., Felton, T. W., Mathew, S. K., & Peloquin, C. A. (2023). Beta-lactam target attainment and associated outcomes in patients with

- bloodstream infections. International journal of antimicrobial agents, 61(3), 106727.
- 05/2022      Hernando, K., Waite, L., Bairagdar, N., **Manigaba, K.**, Teelucksingh, K., Dunn, R., & Casiano-Colon, A. (2022). A waterfall of susceptibility results: impact of microbiology testing cascade for MDROs. Diagnostic microbiology and infectious disease, 104(1), 115731.
- 12/2021      Bairagdar N, Antigua A, Al-Said M, Barnett K, **Manigaba K.** A new frontier: navigating hospital pharmacy practice during the COVID-19 pandemic. Journal of Research in Pharmacy ; 25(6):823-827, 2021.
- 12/2020      **Manigaba K**, Hawks J, Kima M. Remdesvir-warfarin interaction: A case report. HCA Healthcare Journal of Medicine (2020) 1:COVID-19.
- 08/2020      **Manigaba K**, Gael M. COVID-19: The Culprit, the People and Lessons Learned. HCA Healthcare Journal of Medicine (2020) 1:4
- 12/2018      **Manigaba K**, Borgert SJ, Klinker KP, Cherabuddi K, Venugopalan V. SCAN: A novel approach for vancomycin time-out. Infect Control Hosp Epidemiol. 2018 Dec;39(12):1501-1503.
- 09/2018      Venugopalan V, **Manigaba K**, Borgert SJ, Cope J, Peloquin CA, Klinker KP. Training a Drug to Do New Tricks: Insights on Stability of Meropenem Administered as a Continuous Infusion. Microbiol Insights. 2018;11:1178636118804549.
- 04/2018      Kenneth L Wiley, Edward Treadwell, **Kayihura Manigaba**, Beverly Word, Jarren Oates, Beverly D Lyn-Cook. Modulation of Histone Deacetylases (HDACs) Expression in Patients with and without Systemic Lupus Erythematosus: Possible Drug Targets for Treatment. J Rheum Dis Treat 2018, 4:060
- 08/2017      Rybak JM, Dickens CM, Parker JE, Caudle KE, **Manigaba K**, Whaley SG, Nishimoto AT, Luna-Tapia A, Roy S, Zhang Q, Barker KS, Palmer GE, Sutter TR, Homayouni R, Wiederhold NP, Kelly SL, Rogers PD. Loss of C-5 sterol desaturase activity results in increased resistance to azole and echinocandin antifungals in a clinical isolate of *Candida parapsilosis*. Antimicrob Agents Chemother. 2017 Aug 24;61(9).
- 07/2015      Berkow EL, **Manigaba K**, Parker JE, Barker KS, Kelly SL, Rogers PD. Multidrug transporters and alterations in sterol biosynthesis contribute to azole antifungal resistance in *Candida parapsilosis*. Antimicrob Agents Chemother, 2015; 59(10):5942-50.
- 02/2013      Wiley KL, Treadwell E, **Manigaba K**, Word B, Lyn-Cook BD. Ethnic differences in DNA methyltransferases expression in patients with systemic lupus erythematosus. J of clin immunol, 2013; 33 (2): 342-8.

## Book Chapter

Antimicrobial Stewardship and Resistance in Low- and Middle-Income Countries. IDSAP 2023 Book 2 • Global Public Health Issues.

## Newsletter

Manigaba, Kayihura; Hahirwa, Innocent; Bitunga, Leopold; Jean Bosco Munyemana; Inkindi, Anaclet; Venugopalam, Veena. Implementing Antimicrobial Stewardship in Sub-Saharan Africa: Challenges, Progress, and Solutions. Practice Report 2023. ACCP Global Health PRN

## Poster Presentations

- 5/2023 Manigaba K, Hahirwa I, Bitunga L, Munyemana JB, Inkindi A, Venugopalan V. International Virtual Mentorship and Multidisciplinary Collaboration: Advancing Antimicrobial Stewardship in Rwanda. MAD-ID. Orlando, FL.
- 5/2021 Bairagdar, Nora; Hernando, Kathryn; **Manigaba, Kayihura**; Cintron, Cristobal; Kima, Marie; Thomas, Sanil; and Yancey, Robert, "Taking Serious Threats Seriously: Successful Antimicrobial Stewardship Interventions to Reduce Vancomycin-Resistant Enterococcus" (2021). North Florida Division Research Day 2021. 2.
- 12/2020 Waite L, Hernando K, **Manigaba K**, Bairagdar N, et al. Impact of microbiology testing cascade on time to susceptibility result for multi-drug resistant organisms. ASHP 2020 Midyear Clinical Meeting and Exhibition Poster Session.
- 12/2020 Tang A, Cheng J, Bairagdar N, Huelsman A, Hiruy A, **Manigaba K**. Evaluating the impact of procalcitonin turnaround time on antimicrobial de-escalation. ASHP 2020 Midyear Clinical Meeting and Exhibition Poster Session.
- 12/2020 Hayley C, Hernando K, **Manigaba K**, Bairagdar N. Impact of mandatory stop dates and indication documentation on duration of antibiotic treatment in hospitalized adults with bacterial pneumonia. ASHP 2020 Midyear Clinical Meeting and Exhibition Poster Session.
- 12/2020 Cheng J, Scalera S, Bairagdar N, Haver C, **Manigaba K**. Student pharmacists' role in improving IV to PO conversion rates for antibiotics. ASHP 2020 Midyear Clinical Meeting and Exhibition Poster Session.
- 12/2020 Simpson S, Woodberry K, **Manigaba K**. Clinical Outcomes and Cost-Analysis of Prothrombin Complex Concentrate (Human) at a Community Hospital. ASHP 2020 Midyear Clinical Meeting and Exhibition Poster Session.

- 12/2020 Linn E, Nease R, **Manigaba K**. Remdesivir and warfarin: a case series analyzing for a potential drug-drug interaction. ASHP 2020 Midyear Clinical Meeting and Exhibition Poster Session.
- 12/2019 Yum D, Gagne D, Ellis H, **Manigaba K**. Impact of negative methicillin-resistant *Staphylococcus aureus* (MRSA) nasal swab on total duration of MRSA therapy for pneumonia patients. ASHP 2019 Midyear Clinical Meeting and Exhibition Poster Session. Las Vegas, NV
- 12/2019 Haddad H, Hernando K, **Manigaba K**, Antigua A. Impact of required antibiotic stop dates and indications on length of treatment in hospitalized patients with pneumonia. ASHP 2019 Midyear Clinical Meeting and Exhibition Poster Session. Las Vegas, NV.
- 05/2018 **Manigaba K**, Venugopalan V, Cope J, Borgert S, Peloquin C, Klinker K. Utilization of Beta-Lactam Therapeutic Drug Monitoring to Support Continuous Infusion Meropenem. Making a Difference in Infectious Diseases (MAD-ID) Poster Session. Orlando, FL
- 05/2017 **Manigaba K**, Ashton J, Venugopalan V, Cope J. A single center comparison of oxacillin 10 g versus 12 g continuous IV infusion in methicillin-susceptible *Staphylococcus aureus* endocarditis. Making a Difference in Infectious Diseases (MAD-ID) Poster Session. Orlando, FL
- 12/2016 **Manigaba K**, Ashton J, Venugopalan V, Cope J. Methicillin-susceptible *Staphylococcus aureus* endocarditis: a single center review of oxacillin dosing strategies. Vizient Poster Session. Las Vegas, NV
- 12/2015 **Manigaba K**, Behbahani Y, Marilyn L, Spiceland E. Evaluation of accuracy of home medication lists as part of a nonpharmacy-based medication reconciliation program. ASHP 2015 Midyear Clinical Meeting and Exhibition Poster Session. New Orleans, LA
- 10/2015 Rybak JM, **Manigaba K**, Berkow EL, Parker JE, Kelly SL, Rogers PD, Molecular Mechanisms of Azole Resistance (AR) in Clinical Isolates of *Candida tropicalis*. American College of Clinical Pharmacy (ACCP) Global Conference on Clinical Pharmacy Poster Session. San Francisco, CA
- 09/2015 Rybak JM, **Manigaba K**, Berkow EL, Parker JE, Kelly SL, Rogers PD, Molecular Mechanisms of Fluconazole (FLC) Resistance (FR) in Clinical Isolates of *Candida tropicalis* (Ct) Joint Interscience Conference on Antimicrobial Agents and Chemotherapy and International Congress of Chemotherapy (ICAAC/ICC) Poster Session. San Diego, CA
- 10/2014 **Manigaba K**, Berkov EL, Rogers PD. The role of Mdr1 in azole resistance in clinical isolates of *Candida parapsilosis*. ACCP Annual Meeting Poster Session. Austin, TX
- 03/2014 Berkow EL, **Manigaba K**, Wanamaker E, Barker KS, Caudle KE, Rogers PD. Molecular Mechanisms of Multidrug Resistance in *Candida*

*parapsilosis*. American Society for Microbiology (ASM) Candida Meeting  
Poster Session. New Orleans, LA

#### Other Research Experience

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- 07/2019 – 08/2021 **North Florida Regional Medical Center, Gainesville, FL**  
Pharmacy residency program research coordinator
- 07/2016 – 06/2018 **UF Health Shands Hospital, Gainesville, FL**  
Longitudinal Residency research projects.
- 07/2012 – 05/2016 **University of Tennessee Health Science Center, Memphis, TN**  
Senior Advisor: P. David Rogers, Pharm.D., Ph.D., FCCP  
Work aimed to explain the azole and echinocandin resistant phenotype  
observed in *Candida* species.
- 11/2009 – 11/2011 **Food and Drug Administration (FDA)**  
**National Center for Toxicological Research (NCTR), Jefferson, AR**  
Senior Advisor: Beverly Lyn-Cook, Ph.D.  
Projects included studying sex/gender differences in drug safety and  
efficacy related to polymorphisms in ATP-Binding Cassette (ABC)  
transporter ABCC1 and evaluation of the role of epigenetics in lupus  
patients.

#### International Collaboration

- 2023 Initiated a collaborative partnership between the University of  
Rwanda and the University of Florida to enhance antimicrobial  
stewardship in Rwanda.

#### Leadership & Extracurricular Activities

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- 12/2021– Present Scholarship committee, UF College of Pharmacy
- 12/2021– Present Anti-infective Subcommittee (AIS) Member, UF Health Shands Hospital
- 12/2021– Present Diversity, Inclusion, and Health Equity (DIHE) Committee Member, UF  
College of Pharmacy
- 12/2021 – Present Institutional Review Board (IRB) Committee Member, UF
- 08/2019 – 08/2021 Pharmacy and Therapeutics (P&T) Secretary, NFRMC
- 08/2019 – 08/2021 Policy and Procedure Committee Member, NFRMC
- 01/2019 – 07/2020 Antimicrobial Stewardship Program Committee Chair, NFRMC

01/2019 – 08/2021	Graduate Medical Education Research Advisory Committee Member, NFRMC
01/2019 – 08/2021	Pharmacy Residency Advisory Committee Member, NFRMC
08/2018 – 11/2018	P&T Member, Jackson North Medical Center
07/2017 – 06/2018	Antimicrobial Pharmacokinetics Service Coordinator, UF Shands Hospital
07/2016 – 06/2017	Education Committee Coordinator, UF Health Shands Hospital
07/2016 – 06/2017	Nursing and Pharmacy Operations Committee Member UF Health Shands Hospital

### **Awards & Honors**

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2023	Excellence in Teaching, University of Florida College of Pharmacy
2023	Best storyteller award, University of Florida College of Pharmacy
2022	Excellence in Teaching, University of Florida College of Pharmacy
2022	Best storyteller award, University of Florida College of Pharmacy
2016	Excellence in Research and Scholarship Award, University of Tennessee College of Pharmacy
2011	Honor Medal, U.S Food and Drug Administration (FDA)

### **Professional Memberships**

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2015 – Present	American Society of Health-System Pharmacists (ASHP)
2015 – Present	Rho Chi Pharmacy Honor Society
2014 – Present	American College of Clinical Pharmacy (ACCP)
2012 – Present	Phi Delta Chi Pharmacy Fraternity (PDC)