Bobby Glenn Warren III, MPS

Durham, NC 27713

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EDUCATION

University of North Carolina at Chapel Hill - Chapel Hill, NC Carolina First Graduate (1st generation college student) B.S Biology, B.A. Music Performance Minor in Chemistry	8/2011 - 5/2015
University of North Carolina at Chapel Hill - Chapel Hill, NC Carolina First Graduate (1st generation graduate student) Master of Professional Science - Biomedical and Health Informatics	5/2017 - 8/2018
EMPLOYMENT	
Duke University School of Medicine - <i>Research Assistant</i> Vance Fowler Laboratory, Department of Medicine, Division of Infectious Diseases	5/2015 - 7/2018
Duke University School of Medicine - Clinical Research Coordinator I, Microbiologist Duke Center for Antimicrobial Stewardship and Infection Prevention, Department of Medicine, Division of Infectious Diseases	7/2018 - 10/2019
Duke University School of Medicine - Clinical Research Coordinator II, Microbiologist Duke Center for Antimicrobial Stewardship and Infection Prevention, Department of Medicine, Division of Infectious Diseases	10/2019 - 10/2020
Duke University School of Medicine - <i>Lab Director, Founding Director</i> Disinfection, Resistance, and Transmission Epidemiology (DiRTE) lab, Duke Center for Antimicrobial Stewardship and Infection Prevention, Department of Medicine, Division of Infectious Diseases	10/2020– Present
North Carolina School of Science and Mathematics, Durham NC Staff, Instructor Research Mentorship	9/2018 – 12/2022
Duke University School of Medicine - <i>Lab Director</i> Molecular Epidemiology, Department of Medicine, Division of Infectious Diseases	10/2020 – Present
PROFESSIONAL ORGANIZATION MEMBERSHIPS	
The Society for Healthcare Epidemiology of America (Member)	2019 – Present
Infectious Diseases Society of America (Member) Association for Professionals in Infection Control and Epidemiology (Member)	2019 – Present 2022 – Present

PROFESSIONAL COMMITTEES

American Society for Microbiology, Microbiology Spectrum Journal, Board of Reviewing Editors (Member)	2023 – Present
Guidelines Committee, Society for Healthcare Epidemiology of America (Member)	2023 – Present
Triangle Brass Band, Board of Directors (Director)	2021 – Present
MySHEA Task Force - Society for Healthcare Epidemiology of America (Member)	2020 – Present
HONORS & AWARDS	
Earl Slocum award (Chancellor's award)	2015
University of North Carolina at Chapel Hill, Chancellor	
Excellence in Academics	2015
University of North Carolina at Chapel Hill, Academic Affairs	
Commendation for Undergraduate Research in Biology	2015
University of North Carolina at Chapel Hill, Department of Biology	
Musician's Service Award	2021
Triangle Brass Band, Board of Directors	
William "Bill" Rutala Scholarship	2021
Society of Healthcare Epidemiology of America	2022
Manuscript - 99 th percentile Altmetric Attention Score	2022
Oxford University Press Altmetric Selected Abstract for Rapid Fire Rounds	2022
Infectious Diseases Society of America, IDWeek 2022	2022
RELEVANT EXPERIENCE & TRAINING	
Undergraduate Research Assistant	2013-2015
Gregory P. Copenhaver lab	
University of North Carolina and Chapel Hill, Department of Biology Chapel Hill, NC, USA	
Leadership Training and Certificate	2018
University of North Carolina at Chapel Hill	
Chapel Hill, NC, USA	
UNC Business Essentials Program and Certificate	2018
Kenan-Flagler Business School, University of North Carolina at Chapel Hill	
Chapel Hill, NC, USA	
Healthcare Epidemiology Training Course	2019, 2021
The Society for Healthcare Epidemiology of America/Centers for Disease Control	
and Prevention	
Research Phlebotomy Certification	2020
Duke University Duke Office of Clinical Research	
Durham, NC, USA	2020
Biosafety Level 3 (BSL3) Laboratory Certification	2020
Duke University Regional Biocontainment Laboratory	

Durham, NC, USA

REVIEWED JOURNALS

Pathogens and Global Health	2020 – Present
Infection Control & Hospital Epidemiology	2020 – Present
The Joint Commission Journal on Quality and Patient Safety	2020 – Present
Open Forum Infectious Diseases	2022 – Present
Journal of Clinical Medicine Research	2022 – Present
BMC Pregnancy and Childbirth	2022 – Present
American Journal of Infection Control	2022 – Present
ASM Spectrum	2023 – Present
ASM Antimicrobial Agents and Chemotherapy	2023 – Present

PUBLICATIONS

- Qi R, Joo HS, Sharma-Kuinkel B, Berlon NR, Park L, Fu CL, Messina JA, Thaden JT, Yan Q, Ruffin F, Maskarinec S, Warren BG, Chu VH, Fortes CQ, Giannitsioti E, Durante-Mangoni E, Kanafani ZA, Otto M, Fowler VG Jr. Increased in vitro phenol-soluble modulin production is associated with soft tissue infection source in clinical isolates of methicillin-susceptible Staphylococcus aureus. *J Infect*. 2016 Mar;72(3):302-8. PMID: 26778460. doi: 10.1016/j.jinf.2015.11.002.
- Anderson DJ, Addison R, Lokhnygina Y, Warren BG, Sharma-Kuinkel B, Rojas LJ, Rudin SD, Lewis SS, Moehring RW, Weber DJ, Rutala WA, Bonomo RA, Fowler VG, Sexton DJ; CDC Prevention Epicenters Program. The Antimicrobial Scrub Contamination and Transmission (ASCOT) Trial: A Three-Arm, Blinded, Randomized Controlled Trial With Crossover Design to Determine the Efficacy of Antimicrobial-Impregnated Scrubs in Preventing Healthcare Provider Contamination. *Infect Control Hosp Epidemiol*. 2017 Oct;38(10):1147-1154. PMID: 28847326. doi: 10.1017/ice.2017.181.
- 3. Souli M, Ruffin F, Choi SH, Park LP, Gao S, Lent NC, Sharma-Kuinkel BK, Thaden JT, Maskarinec SA, Wanda L, Hill-Rorie J, **Warren BG**, Hansen B, Fowler VG. Changing Characteristics of Staphylococcus aureus Bacteremia: Results From a 21-Year, Prospective, Longitudinal Study. *Clin Infect Dis*. 2019 Nov 13;69(11):1868-1877. PMID: 31001618. doi: 10.1093/cid/ciz112.
- 4. **Warren BG**, Masker J, Brown G, Gamez I, Smith B, Anderson DJ, Turner N. Efficacy of UV-C disinfection in hyperbaric chambers. *Infect Control Hosp Epidemiol*. 2020 Sep;41(9):1080-1083. PMID: 32546289. doi: 10.1017/ice.2020.248.
- 5. Choi SH, Dagher M, Ruffin F, Park LP, Sharma-Kuinkel BK, Souli M, Morse AM, Eichenberger EM, Hale L, Kohler C, **Warren BG**, Hansen B, Medie FM, McIntyre LM, Fowler VG. Risk Factors for Recurrent Staphylococcus aureus Bacteremia. *Clin Infect Dis*. 2021 Jun 1;72(11):1891-1899. PMID: 32564065. doi: 10.1093/cid/ciaa801.
- 6. Hansen BK, Toffaletti DL, Park LP, **Warren BG**, Giamberardino C, Perfect JR, Fowler VG, Drew RH, Sharma-Kuinkel BK. Ceftaroline Fosamil in the Treatment of Experimental Meningitis Caused by Methicillin-Resistant Staphylococcus aureus. *Int J Pharma Anal Acta*. 2020;3(1):020-024.
- 7. **Warren BG**, Turner N, Smith B, Addison R, Marden S, Weber DJ, Rutala WA, Anderson DJ, CDC Epicenters Program. Measuring the impact of continuous disinfection strategies on environmental burden in outpatient settings: a prospective randomized controlled trial. *Open Forum Infect Dis.* 2020 Sept:7(10):431. doi: 10.1093/ofid/ofaa431

- 8. **Warren BG**, Nelson A, Warren D, Baker M, Miller C, Habrock T, Bongu J, Gowda A, Johnson J, Anderson DJ, CDC Epicenters Program. Impact of preoperative chlorhexidine gluconate (CHG) application methods on preoperative CHG skin concentration. *Infect Control Hosp Epidemiol*. 2020 Sep;42(4), 464-466. doi:10.1017/ice.2020.448
- 9. Turner NA, **Warren BG**, Gergen-Teague MF, Addison RM, Addison B, Rutala WA, Weber DJ, Sexton DJ, Anderson DJ. Impact of Oral Metronidazole, Vancomycin, and Fidaxomicin on Host Shedding and Environmental Contamination With Clostridioides difficile. *Clin Infect Dis.* 2022 Mar 1;74(4):648-656. PMID: 34017999. doi: 10.1093/cid/ciab473.
- 10. **Warren BG**, Nelson A, Barrett A, Addison B, Graves A, Binder R, Gray G, Lewis S, Smith BA, Weber DJ, Sickbert-Bennett EE, Anderson DJ; CDC Prevention Epicenters Program. SARS-CoV-2 Environmental contamination in hospital rooms is uncommon using viral culture techniques. *Clin Infect Dis*. 2022 Jan 12:ciac023. PMID: 35023553. doi: 10.1093/cid/ciac023.
 - a. 99th percentile Altmetric Attention Score
- 11. **Warren BG**, Turner NA, Addison R, Nelson A, Barrett A, Addison B, Graves A, Smith B, Lewis SS, Weber DJ, Sickbert-Bennett EE, Anderson DJ. The Impact of Infection Versus Colonization on Clostridioides difficile Environmental Contamination in Hospitalized Patients With Diarrhea. *Open Forum Infect Dis.* 2022 Feb 9;9(4):ofac069. PMID: 35265730. doi: 10.1093/ofid/ofac069.
- 12. Weber DJ, Sickbert-Bennett EE, **Warren BG**, Anderson DJ. Response to "Severe acute respiratory coronavirus virus 2 (SARS-CoV-2) surface contamination in staff common areas and impact on healthcare worker infection: Prospective surveillance during the coronavirus disease 2019 (COVID-19) pandemic" by Helen L Zhang, et al. *Infect Control Hosp Epidemiol*. 2022 Apr; doi: 10.1017/ice.2022.63
- 13. Johnson AA, **Warren BG**, Anderson DJ, Johnson MD, Gamez I, Smith BA. Impact of alcohol-based hand-rub disinfection on bacterial bioburden on stethoscopes in a real-world clinical setting. *Infect Control Hosp Epidemiol*. 2022 Apr 11:1-3. PMID: 35403584. doi: 10.1017/ice.2022.54.
- 14. **Warren BG**, Yarrington ME, Polage CR, Anderson DJ, Moehring RW. Evaluation of Hospital Blood Culture Utilization Rates to Identify Opportunities for Diagnostic Stewardship. *Infect Control Hosp Epidemiol*. 2022 Apr: doi: 10.1017/ice.2022.191
- 15. Moehring RW, Yarrington ME, **Warren BG**, Lokhnygina Y, Atkinson E, Bankston A, Coluccio J, David MZ, Davis A, Davis J, Dionne B, Dyer A, Jones T, Klompas M, Kubiak DW, Marsalis J, Omorogbe J, Orajaka P, Parish A, Parker T, Pearson JC, Pearson T, Sarubbi C, Shaw C, Spivey J, Wolf R, Wrenn R, Dodds-Ashley E, Anderson DJ, CDC Prevention Epicenters Program. Evaluation of an Opt-Out Protocol for Antibiotic Deescalation in Patients with Suspected Sepsis: a multicenter randomized controlled trial. *Clin Infect Dis.* 2022 Sept 28; doi: 10.1093/cid/ciac787
- 16. **Warren BG**, Barrett A, Graves A, King C, Turner NA, Anderson DJ. An Enhanced Strategy for Daily Disinfection in Acute Care Hospital Rooms A Randomized Clinical Trial. *JAMA Netw Open.* Nov 5 2022; doi:10.1001/jamanetworkopen.2022.42131
- 17. Graves A, Barrett A, Addison B, Polage C, Smith BA, Lewis S, Anderson DJ, **Warren BG**. Disinfection efficacy of Oxivir™ Tb wipe residue on SARS-CoV-2. *Infect Control Hosp Epidemiol*. May 2023;

PRESENTED ABSTRACTS

- Anderson DJ, Warren BG, Addison RM, Sharma-Kuinkel BK, Lokhnygina Y, Rojas LJ, Rudin SD, Bonomo RA, Fowler VG, CDC Prevention Epicenters Program. Molecular Analysis of Transmission Events in the Antimicrobial Scrub and Transmission (ASCOT) Trial. Oral presentation given at: IDWeek October 2016, New Orleans, Louisiana.
- 2. Sharma-Kuinkel BK, Tkaczyk C, Bonnell J, Gunther V, Yu L, Tovchigrechko A, Park LP, Warren BG, Ruffin F,

- Esser MT, Sellman BR, Fowler VG, Ruzin A. Prevalence and Production of Virulence Factors in Staphylococcus aureus Isolates and Specific IgG and IgM Antibody Levels in S. aureus Bacteremic Pneumonia Patients. Poster presented at: ASM Microbe June 2017, New Orleans, Louisiana.
- 3. Souli M, Ruffin F, Park LP, Sharma-Kuinkel BK, Thaden JT, Maskarinec S, Gao S, Lent NC, Wanda L, Hill-Rorie J, **Warren BG**, Hansen B, and Fowler VG. Twenty-One Years of Staphylococcus aureus Bacteremia (SAB): Variations in Bacterial Genotype and Clinical Phenotype in the S. aureus Bacteremia Group Prospective Cohort Study (SABG-PCS) from 1995 to 2015. Poster presented at: ID Week 2017, San Diego, California.
- 4. Hansen BK, Toffaletti DL, Park LP, **Warren BG**, Giamberardino C, Perfect JR, Fowler VG, Sharma-Kuinkel BK. *Ceftaroline Fosamil in the treatment of meningitis caused by Methicillin-Resistant Staphylococcus aureus using Rabbit model*. Poster presented at: ASM Microbe June 2018, Atlanta, Georgia
- 5. Choi S, Ruffin F, Park LP, Sharma-Kuinkel BK, Souli M, **Warren BG**, Hansen B, Medie FM, Fowler VG. Risk Factors for Recurrent Staphylococcus aureus Bacteremia. Poster presented at: ID Week October 2018, San Francisco, California
- 6. Turner NA, **Warren BG**, Fowler VG, Anderson DJ. Molecular Epidemiology of C. difficile within a Community Hospital: A Pilot for a Regional Survey. Poster presented at: ID Week October 2018, San Francisco, California
- 7. **Warren BG**, Nelson A, Warren D, Miller C, Habrock T, Bongu J, Anderson DJ. Impact of Pre-Operative Chlorhexidine Gluconate (CHG) Application Methods on Pre -Operative CHG Skin Concentration. Poster presented at: SHEA April 2019, Boston, Massachusetts
- 8. **Warren BG**, Turner NA, Smith B, Addison RM, Marden S, Weber DJ, Rutala WA, Anderson DJ, CDC Prevention Epicenters Program. Environmental Contamination Characterization of Two Outpatient Clinics. Poster presented at: IDWeek October 2019, Washington, DC.
- 9. **Warren BG**, Masker J, Brown G, Gamez I, Smith B, Anderson DJ, Turner NA. Efficacy of UV-C Disinfection in Hyperbaric Chambers. Poster presented at: SHEA March 2020 6th Decennial International Conference on Healthcare Associated Infections, Centers for Disease Control and Prevention, Atlanta, Georgia. (Cancelled due to COVID19)
- 10. Johnson A, Warren BG, Anderson DJ, Johnson M, Marden S, Gamez I, Smith B. Alcohol Hand Rub Significantly Reduces Overall Bacterial Bioburden on Stethoscopes in a Real-World Clinical Setting. Poster presented at: SHEA March 2020 6th Decennial International Conference on Healthcare Associated Infections, Centers for Disease Control and Prevention, Atlanta, Georgia. (Cancelled due to COVID19)
- 11. **Warren BG**, Turner NA, Addison RM, Nelson A, Marden A, Gamez I, Smith B, Polage C, Weber DJ, Rutala WA, Sickbert-Bennett EE, Anderson DJ. Clostridioides difficile environmental contamination in hospitalized patients with diarrhea: a pilot study. Poster presented at: IDWeek October 2020
- 12. **Warren BG**, Addison B, Lewis SS, Smith BA, Anderson DJ. Klebsiella pneumoniae Carbapenemase (KPC)-Producing Klebsiella pneumoniae contamination of an in-room sink in a new bed tower. Poster Presented at: SHEA April 2021
- 13. **Warren BG**, Yarrington ME, Polage C, Anderson DJ, Moehring RW. Blood Culture Utilization at Six Southeastern United States Hospitals. Poster presented at SHEA April 2021
- 14. **Warren BG**, Nelson A, Barrett A, Addison B, Graves A, Lewis SS, Smith BA, Weber DJ, Rutala WA, Sickbert-Bennett EE, Anderson DJ, CDC Prevention Epicenters Program. SARS-CoV-2 environmental contamination in hospitalized patients with COVID-19. Poster presented at: IDWeek October 2021
- 15. **Warren BG**, Addison B, Nelson A, Barrett A, A Graves A, Lewis SS, Smith BA and Anderson DJ Carbapenem-resistant Enterobacteriaceae (CRE) contamination of in-room sinks in a new bed tower. Poster presented at: IDWeek October 2021

- 16. Moehring RW, Yarrington ME, **Warren BG**, Lokhnygina Y, Atkinson E, Bankston A, Coluccio J, David MZ, Davis A, Davis J, Dionne B, Dyer A, Jones T, Klompas M, Kubiak DW, Marsalis J, Omorogbe J, Orajaka P, Parish A, Parker T, Pearson JC, Pearson T, Sarubbi C, Shaw C, Spivey J, Wolf R, Wrenn R, Dodds-Ashley E, Anderson DJ, CDC Prevention Epicenters Program. Effects of an Opt-Out Protocol for Antibiotic Deescalation among Selected Patients with Suspected Sepsis: The De-Escalation OpTing-OUt of Rx in Selected patients with Suspected Sepsis (DETOURS) Trial. Oral presentation given at: IDWeek October 2021, Virtual
- 17. Graves AM, **Bobby Warren BG**, Barrett A, Lewis SS, Smith BA, Weber DJ, Sickbert-Bennett EE, Anderson DJ, CDC Prevention Epicenters Program. SARS-CoV-2 N95 mask contamination, via surgical mask surrogate, in healthcare providers treating patients with COVID-19. Poster presented at: SHEA April 2022, Colorado Springs, Colorado
- 18. **Warren BG**, Barrett A, Graves AM, King C, Turner NA, Anderson DJ. Measuring the Impact of an Enhanced Strategy for Daily Disinfection in Acute Care Hospital Rooms. Poster presented at: SHEA April 2022, Colorado Springs, Colorado
- 19. Graves AM, Schaps D, Isaacson J, Barrett A, King C, **Warren BG**, Anderson DJ. Measuring the Contamination of Transport and Emergency Ambulances and Emergency Medical Service (EMS) Providers. Poster presented at: IDWeek October 2022, Washington, DC
- 20. **Warren BG**, Muralidharan SS, Brown HS, Barrett A, Graves AM, King C, Mohammad F, Anderson DJ, Seidelman J, Smith BA, Dufault D. Efficacy of shortened high-level disinfection (HLD) protocols for GI duodenoscopes with disposable tips used for endoscopic retrograde cholangiopancreatography (ERCP). Poster presented at: IDWeek October 2022, Washington, DC
- 21. **Warren BG**, Muralidharan SS, Brown HS, Barrett A, Graves AM, King C, Mohammad F, Anderson DJ, Seidelman J, Smith BA, Dufault D. Efficacy of shortened high-level disinfection (HLD) protocols for GI duodenoscopes with disposable tips used for endoscopic retrograde cholangiopancreatography (ERCP). Oral Presentation presented at: IDWeek October 2022, Washington, DC
- 22. Muralidharan S, Parish S, Niedzwiecki D, **Warren BG**, Brown HS, Barrett A, Graves A, King C, Mohammed F, Triplin C, Seidelman J, Smith BA, and Dufault D. Assessment of pathogenic enteric flora contaminating novel duodenoscopes with disposable tips. Poster presented at: ACG October 2022, Charlotte, NC
- 23. Muralidharan S, Parish S, Niedzwiecki D, **Warren BG**, Brown HS, Barrett A, Graves A, King C, Mohammed F, Triplin C, Seidelman J, Smith BA, and Dufault D. Evaluation of abbreviated HLD protocols for duodenoscopes with disposable tips. Poster presented at: ACG October 2022, Charlotte, NC
- 24. Barrett A, Graves AM, De Jesus E, McCotter D, Edelschick J, Anderson DJ, Turner N, **Warren BG**. Measuring the Efficacy of Routine Disinfection methods on Frequently Used Physical Therapy Equipment. Poster presented at: SHEA April 2023, Seattle, WA

INVITED PRESENTATIONS

- 1. Efficacy of UV-C Disinfection in Hyperbaric Chambers. Infectious Disease Grand Rounds Duke University Medical Center June 15, 2020
- 2. Measuring the Impact of Continuous Disinfection Strategies on Environmental Burden in Outpatient Settings. Infectious Disease Grand Rounds Duke University Medical Center. June 15, 2020
- 3. Blood Culture Utilization at Six Southeastern United States Hospitals. Duke Center for Antimicrobial Stewardship and Infection Prevention Blood Culture Contamination Summit June 27, 2021
- 4. *Clostridioides difficile* environmental contamination in hospitalized patients with diarrhea. Infection Prevention, Duke School of Medicine November 11, 2021
- 5. Ambulances, C. difficile and Quats, oh my! APIC NC Fall 2022 educational conference Durham, NC,

September 22, 2022

SPEAKING ENGAGEMENTS

- 1. Public Health and Environmental Microbiology, Franklinton High School, July 9, 2020
- 2. A Scientist Living Through the Pandemic, Perspective 2020 podcast (https://perspective2020pod.com/), August 30, 2020 and September 3, 2020
- Understanding Vaccines and Treatments for COVID-19, Perspective 2020 podcast (https://perspective2020pod.com/understanding-vaccines-and-treatments-for-covid-19/), November 22, 2020
- 4. Public Health and Environmental Microbiology, Franklinton High School, November 23, 2020
- 5. Diagnostic Stewardship, The ICHE Podcast (https://podcasts.apple.com/us/podcast/the-iche-podcast/), Issue 2, Volume 44, Episode 34, February 16, 2023

EXTERNAL SUPPORT - Grant and Contracts

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PI	Role	Flinding amount	Duration
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PDI Healthcare Inc. research contract

<u>Nicholas Turner</u> <u>Sub-Investigator</u> <u>\$30,832</u> <u>8/1/2020 - 7/31/2021</u>

Funding Source: Professional Disposables International Healthcare, Inc.

Title: Measuring the Impact of Enhanced Strategies for Daily Disinfection in Acute Care Hospital Rooms: Sani24 vs. Routine Daily Disinfection

The objectives of this project are: (1) to determine the effectiveness of Sani24 in the "real world" hospital environment compared to routine disinfection; (2) deploy a novel sampling strategy within a singular patient room to create similar baselines of contamination to compare; and (3) to describe routine disinfection compliance on study surfaces.

Purio Labs research contract

<u>Nicholas Turner</u> <u>Sub-Investigator</u> <u>\$37,091</u> <u>8/1/2022 - 7/31/2023</u>

Funding Source: Purio Labs

Title: Measuring the efficacy of the PURitALL disinfection cabinet on frequently used physical therapy treatment equipment

The objectives of this project are: (1) to determine the effectiveness of the PURitALL device on difficult to disinfect physical therapy equipment in a "real world" hospital environment compared to routine disinfection

CDC Broad Agency Announcement (BAA 75D301-22-R-72097) Topic 16

Deverick Anderson Lab Director \$696,799.54 9/1/2022 – 8/31/24

Funding Source: Centers for Disease Control and Prevention

Title: Optimization of detection and monitoring of environmental fungal contamination to establish baseline contamination rates

The objectives of this project are: (1) to identify optimized methods for the detection of fungal contamination; (2) to evaluate fungal environmental contamination of healthcare settings using optimized methods from objective 1; and (3) to establish baseline levels of fungal contamination in acute healthcare settings in three bed towers of differing ages.

Duke-NC State Translational Research Grant 2022-2023

<u>Nicholas Turner</u> <u>Lab Director</u> <u>\$50,000.00</u> <u>10/1/2022 – 9/30/23</u>

Funding Source: Duke Clinical & Translational Science Institute and North Carolina State University Office of Research and Innovation

Title: Wastewater Surveillance for *Clostridioides difficile* Transmission

The objectives of this project are: (1) Develop and validate a nucleic acid amplification-based assay for the presence of C. difficile within raw wastewater.; (2) Correlate the quantitation of C. difficile within local wastewater influent and hospital effluent with the epidemiology of C. difficile in spatio-temporally matched catchment areas; and (3) Assess the genetic relatedness of C. difficile isolated from local wastewater compared to hospital acquired and community-acquired clinical isolates.

Robert A. Winn Diversity in Clinical Trials Award 2022-2023

<u>Ibukun Kalu</u>

Microbiological Lab
Coordinator

S240,000.00
10/1/2022 – 9/30/23

Funding Source: Robert A. Winn Diversity in Clinical Trials Award Program

Title: Maternal Predictors of Early Childhood Bacterial Colonization or Invasive Infection
The objectives of this project are: (1) Determine the clinical and microbiological epidemiology among
maternal-infant dyads within the project HOPE cohort; and (2) Compare antibiotic exposures and trial

antibiotic options to detect impact on bacterial colonization within maternal-infant dyads.

SELECTED RESEARCH MEDIA APPEARANCES

- 1. Society for Healthcare Epidemiology of America (SHEA) (August 29, 2017) *Study Shows Nurses' Scrubs Become Contaminated with Bacteria in Hospitals* http://www.shea-online.org/index.php/journal-news/press-room/press-release-archives/541-study-shows-nurses-scrubs-become-contaminated-with-bacteria-in-hospitals
- 2. Forbes (National October 28, 2016) Scrubs And Superbug Transmission In ICUs: What We Still Don't Know Can Kill You https://www.forbes.com/sites/judystone/2016/10/28/scrubs-and-superbug-transmission-in-icus-what-we-still-dont-know-can-kill-you/#798992853f5b
- 3. Duke Health News, Press release (January 18, 2022) *Hospital Room Surfaces Pose Low Risk of Spreading SARS-CoV-2* https://corporate.dukehealth.org/news/hospital-room-surfaces-pose-low-risk-spreading-sars-cov-2
- 4. Medscape: Reuters Health Information (International January 20, 2022) Hospital Rooms Housing COVID-19 Patients Usually Not Contaminated With Virus <a href="https://www.medscape.com/viewarticle/966828?src="https://www.medscape.com/viewarticle/968828?src="https://www.medscape.com/viewarticle/968828?src="https://www.medscape.com/viewarticle/968828?src="https://www.medscape.
- The ICHE Podcast Episode 24, Volume 43, Issue 4. This episode of the ICHE Podcast features two
 segments. In the first segment, David P. Calfee, interviews Diego Schaps and Deverick J. Anderson about
 two articles they published in the April issue on medical transport-associated
 infections. https://podcasts.apple.com/us/podcast/episode-24-volume-43-issue-4/id1459545889?i=1000569664396
- 6. Duke School of Medicine News, (December 5, 2022) *Keeping Things Clean with the DiRTE Lab*. https://medschool.duke.edu/news/keeping-things-clean-dirte-lab

MENTEES

Degree Seeking Graduate Students

Amanda Graves, MPH East Carolina University Department of Public Health Thesis: Environmental Contamination with SARS-CoV-2 in acute care COVID-19 patient care rooms	2021 – 2022
Christopher Burch, MPH University of North Carolina at Chapel Hill School of Public Health Thesis: Racial health disparities of Clostridioides Difficile Tests in the Duke Hospital System Degree Seeking Undergraduate Students	2022
Bechtler Addison Duke University Degrees awarded: Computer Science (BS) and Statistics (BS) Next Step: Cyber Capabilities Officer at Army Cyber Center of Excellence	2020 – 2022
Carly King Duke University Degrees awarded: Biology (BS)	2021 – 2022
High School Research Assistants	
<u>Isabella Gamez</u> North Carolina School of Science and Mathematics Next Step: Undergraduate at University of North Carolina at Chapel Hill	2019 – 2020
Kairos Elaine De Jesus North Carolina School of Science and Mathematics Next Step:	2022 – 2023

REFERENCES

Deverick J. Anderson MD, MPH, FSHEA, FIDSA

Director, Duke Center for Antimicrobial Stewardship and Infection Prevention

Professor of Medicine

Division of Infectious Diseases

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Paul A. Thacker, II

Administrative & Financial Director

Duke Infection Control Outreach Network (DICON)

Duke Antimicrobial Stewardship Outreach Network (DASON)

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Nicholas Turner, MD, MHSc

Bobby Glenn Warren III, MPS

Medical Instructor - Division of Infectious Diseases Duke University Medical Center Office: 919-613-9626

nick.turner@duke.edu

Rebekah Moehring, MD, MPH

Duke University Division of Infectious Diseases Medical Director, Duke University Antimicrobial Stewardship and Evaluation Team (ASET) Co-Director of Research, Duke Antimicrobial Stewardship Outreach Network (DASON)

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