

ERIC J NELSON, MD PhD MS FAAP

Emerging Pathogens Institute, University of Florida
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SCIENTIFIC AND CLINICAL WORK EXPERIENCE

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|--|--|-----------------|
| 2016-Present | University of Florida | Gainesville, FL |
| Child Health Research Institute; Assistant Professor, Department of Pediatrics, College of Medicine; Department of Environmental and Global Health, College of Public Health and Health Professions. | | |
| 2014-2016 | Stanford University | Stanford, CA |
| Pediatric Global Health Physician Scientist, Instructor, Division of Pediatric Infectious Diseases | | |
| 2013-2016 | Santa Clara Valley Medical Center | San Jose, CA |
| ▪ General Pediatrics | | |

EDUCATION AND TRAINING

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| 2013-2014 | Stanford University | Stanford, CA |
| Pediatric Global Health Postdoctoral Fellowship | | |
| ▪ Development of mobile phone technology to detect, monitor, and manage cholera outbreaks | | |
| ▪ Supported by the Stanford Society of Physician Scholars and the Harry Lyon Machen Institute | | |
| ▪ PI: G. Schoolnik, MD (Adult ID). Advisors: M. Amieva, MD PhD and Yvonne Maldonado, MD (Ped ID) | | |
| 2010-2013 | Stanford University | Stanford, CA |
| Pediatrics Residency at the Lucile Packard Children's Hospital | | |
| ▪ Inducted into the Stanford Society of Physicians Scholars for cholera research (2012-present) | | |
| ▪ Program director: R. Blankenburg, MD. Advisor: M. Amieva, MD PhD. PI: G. Schoolnik, MD | | |
| 2002-2010 | Tufts University | Boston, MA |
| MD PhD (NIH Medical Scientist Training Program and Tufts University funded) | | |
| ▪ Dissertation on the molecular biology of <i>Vibrio cholerae</i> hyperinfectivity in the aquatic environment | | |
| ▪ PI: Andrew Camilli, PhD (Howard Hughes Medical Institute) | | |
| 1999-2001 | University of Hawaii | Honolulu, HI |
| MS: Microbiology | | |
| ▪ Characterization of a novel <i>lux</i> regulon in <i>Vibrio salmonicida</i> and associated impact on pathogenesis | | |
| ▪ PI: Edward Ruby, PhD | | |
| 1996-1998 | Cornell University | Ithaca, NY |
| BA: Biology | | |
| ▪ Field research on novel reef-fish pathogens of Papua New Guinea | | |
| ▪ PI: William Ghiorse, PhD | | |
| 1994-1996 | Purdue University | West Lafayette, IN |
| ▪ Mechanical Engineering and Biology, Dean's List and Honor Roll | | |

LICENSURE AND CERTIFICATIONS	EXPIRATION
▪ Board Certified by the American Academy of Pediatrics (691621)	Sept 2024
▪ Medical Board of California (A118861)	Nov 2021
▪ Medical Board of Florida (ME130118)	Jan 2023
▪ Pediatric Advanced Life Support	Oct 2022
▪ DEA Registration for Controlled Substances (FN2966692)	Oct 2023

INTELLECTUAL PROPERTY

- Patent (University of Florida/ Stanford University): Outbreak Responder. Disclosed August 2014 at Stanford University and submitted to USPO May 2018. Pub. No. US 2020/0082921 A1
- Patent (Tufts University): Outer Membrane Vesicle vaccine for cholera. S. Schild, E. Nelson, A. Camilli. USPO W02009049013 A2.

ACADEMIC SERVICE

2020-2024	University of Florida	Gainesville, Florida
▪ MD PhD Research Team Sponsor for the Clinical and Translational Science Institute (CTSI)		
2017-2021	University of Florida	Gainesville, Florida
▪ Admissions Committee. Department of Environmental and Global Health		
2020-2021	Univ. of Florida/ Dep of Health, Alachua County	Gainesville, Florida
▪ Scientific and Medical Advisory Committee for COVID-19 Response. Alachua County Public School		
2020	University of Florida	Gainesville, Florida
▪ Pediatric Case Review Committee. Department of Pediatric		
2019-2020	University of Florida	Gainesville, Florida
▪ MD PhD Admissions Interviewer. College of Medicine.		

PROFESSOR OF COLLEGE SELECT CAPACITY BUILDING AND TEACHING EXPERIENCE

Courses and workshops

2019-present	University of Florida	Gainesville, Florida
▪ Professor of College of Public Health and Health Professions College Global Health and Dev II course		
2018-present	Université d'Etat d'Haiti, Médecine	Port-au-Prince, Haiti
▪ Expert Educator: Taught immersive 1-week course in large-scale cholera outbreak management		
2017	University of Florida	Gainesville, Florida
▪ Professor of College of Public Health and Health Professions college-wide journal club		
2017	Jiyon/ mPower	Dhaka, Bangladesh
▪ Expert Trainer: Taught workshop on call center medical triage and diarrheal disease management		
2015	Dhulikhel Hospital and Kathmandu University	Kathmandu, Nepal
▪ Expert Trainer: Taught medical and public health staff on diarrheal disease outbreak management		
2015	Eastern University (Bangladesh)	Dhaka, Bangladesh
▪ Co-organizer: Crowd-mapping event with 90 total students in Bangladesh and at Stanford		
2013-2015	Stanford University School of Medicine	Stanford, CA
▪ Global Health Educator: Workshop on infectious disease transmission and mobile technology		
2012	Lucile Packard Children's Hospital	Stanford, CA
▪ Clinical Educator: Pediatrics core rotation in medical education		
2010	Médecins du Monde	Haiti
▪ Expert Trainer: Taught staff using of the Cholera Outbreak Training and Shigellosis (COTS) Program		
2009	Chidamoyo Hospital	Zimbabwe
▪ Expert Trainer: Taught staff using of the Cholera Outbreak Training and Shigellosis (COTS) Program		

- 2004-2008 **Tufts University School of Medicine** Boston, MA
- Teaching Assistant: Medical molecular biology and medical microbiology
- 1999-2002 **University of Hawaii** Honolulu, HI
- Teaching Assistant: Biology and molecular biology

Mentoring

- 2016-present **University of Florida** Gainesville, FL
- Pediatric medical education of residents, graduate students and medical students
 - PhD students: A. Creasy-Marrazzo (2017-present), Md A. Sayeed (2018-present), K. Flaherty (2020-present)
 - PhD Thesis Committees: A. Creasy-Marrazzo (2017-present), Md A. Sayeed (2018-present), K. Flaherty (2020-present), D. Acosta (2021-present).
 - Non-PhD students: Masters: K. Smith (MPH 2018-21). Resident: S. Rahman (Peds Resident; 2018-2020). Undergraduate: (E. Cato 2020-2021; E. Brinkley 2020-2022; E. Schmidt 2017-2018).
- 2014-2016 **Stanford University** Stanford, CA
- Mentor: Provided guidance and supervision to medical trainees (1) and undergraduate students (2)

PROFESSIONAL DEVELOPMENT

Professional Societies

- American Academy of Pediatrics (current)
- American Society of Tropical Medicine and Hygiene (current)
- American Society of Microbiology – National conference posters in (current)
- American Public Health Association – National conference speaker ‘09
- American Medical Association – Caucus member at ‘03 national conference

Select Oral Presentations

- 2021 Dep. of Pediatrics Grand Rounds (brief report). University of Florida. (Gainesville, FL)
- 2020 West Coast Bacterial Physiologist Conference. Presented by *A. Creasy-Marrazzo* (virtual)
- 2020 American Society of Tropical Medicine and Hygiene. Presented by *M. Klarman* (virtual)
- 2020 Boston Bacterial Meeting. Presented by *A. Creasy-Marrazzo* (virtual)
- 2020 University of Florida: Grant Rounds, Emergency Department, Shands Medical Center (FL)
- 2019 NIH US-Japan Cholera and Other Bacterial Enteric Infections Conference (Osaka, Japan)
- 2019 Microbiology and Immunology Departmental Lecture, College of Med, University of Florida (FL)
- 2019 Evergreen International Phage Biology Meeting (WA)
- 2019 NIH Fogarty International Center Mobile Health Conference (W. DC.)
- 2019 World Health Organization: Global Task Force for Cholera Control (Annecy, France)
- 2019 University of Florida: Infectious Disease Division Seminar (FL)
- 2019 Institute of Epidemiology, Disease Control and Research;Min. of Health and Fam. Welfare (Dhaka)
- 2018 University of Florida: Pediatrics Grand Rounds (FL)
- 2018 World Health Organization: Global Task Force for Cholera Control (Annecy, France)
- 2018 University of California, San Francisco: Global Health Institute Grand Rounds (CA)
- 2018 University of California, San Diego: seminar speaker (CA)
- 2018 Stanford University: Vincent Coates Foundation Mass Spectrometry Symposium (CA)
- 2018 American Society of Microbiology (GA)
- 2018 NIH US-Japan Cholera and Other Bacterial Enteric Infections Conference (Hat Yai, Thailand)
- 2017 Information and Communications Technologies for Development (ICT4D) Conference (Hyderabad)
- 2017 Bangladesh Ministry of Health and Family Welfare: Data for Decision (D4D) in Health (Dhaka)
- 2017 International Centre for Diarrhoeal Disease Research: Executive Director Seminar (Dhaka)
- 2016 American Society of Tropical Medicine and Hygiene (GA)

- 2016 Johns Hopkins Bloomberg School of Public Health: Research seminar (MD)
- 2016 NIH Fogarty International Center Mobile Health Conference (W. DC.)
- 2016 University of Florida: Emerging Pathogens Institute (FL)
- 2016 Stanford University: Pediatric Grand Rounds (CA)
- 2016 World Health Organization: Global Task Force on Cholera Control (London)
- 2015 Stanford University: Adult Infectious Diseases and Geographic Medicine (CA)
- 2014 Stanford University: Liberation Technology Seminar Series (CA)
- 2013 Stanford University: Pediatric Research Retreat (CA)
- 2011 Santa Clara Valley Medical Center: Internal Medicine Department Grand Rounds (CA)
- 2011 Stanford University Medical Center: Emergency Medicine Department Grand Rounds (CA)
- 2010 NIH Fogarty International Clinical Research Scholars and Fellows Symposium (VA)
- 2009 American Public Health Association (PA)
- 2007 NIH US-Japan Cholera and Other Bacterial Enteric Infections Conference (TX)
- 2007 NIH Fogarty International Clinical Research Scholars annual meeting (MD)
- 2007 Boston Bacterial Meeting (MA)

Select Poster Presentations

- 2020 Emerging Pathogens Institute: Research Day. Presented by *A. Creasey-Marraszo*. (FL)
- 2020 American Society of Tropical Medicine and Hygiene. Presented by *M. Klarman* (virtual)
- 2019 American Society of Microbiology, Vibrio. Presented by *A. Creasey-Marraszo*. (Montreal, Canada)
- 2019 American Society of Mass Spectrometry (FL)
- 2018 American Society of Tropical Medicine and Hygiene (LU)
- 2018 American Society of Microbiology (GA)
- 2018 University of Florida. College of Medicine Research Day (FL)
- 2018 Emerging Pathogens Institute: Research Day (FL)
- 2017 University of Florida. Cancer Genetics Research Day (FL)
- 2017 Cold Spring Harbor: Microbial Pathogenesis and Host Response Meeting (NY)
- 2017 Emerging Pathogens Institute: Research Day (FL)
- 2016 NIH: High Risk, High Reward Symposium (Washington DC)
- 2016 NIH: US-Japan Cholera Meeting (Washington DC)
- 2015 Emerging Pathogens Institute: US-Japan Cholera Meeting (FL)
- 2015 Stanford University School of Medicine Pediatric Research Retreat (CA)
- 2014 NIH: High Risk, High Reward Symposium (Washington DC)
- 2014 ICDDR,B: US-Japan Cholera Meeting (Dhaka, Bangladesh)
- 2007 Pasteur Institute: Molecular Microbial Pathogenesis Meeting (Paris, France)
- 2007 Cold Spring Harbor: Microbial Pathogenesis and Host Response Meeting (NY)

Clinical and Scientific Research Training

- 2018 Alan Alda Center for Communicating Science. Stony Brook University (NY; course at UF)
- 2016 UC Berkeley: R Statistical Language: Inter-university. Consortium for Political and Social Research
- 2014 Stanford University: Course in Research Methods in Global Health
- 2012 Course in Clinical Research, Stanford Center for Clinical & Translational Education & Research

SELECT AWARDS AND HONORS

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- American Society of Tropical Medicine and Hygiene. Innovations Competition. To *M. Klarman et al.* 2020.
 - University of Florida. Junior Faculty 2020 International Educator of the Year award. 2020
 - University of Florida: Inducted into Public Health Society, Beta Upsilon Chapter of Delta Omega. 2019
 - Stanford University: Distinguished Harvey Cohen MD PhD Lectureship Recipient. 2016
 - Stanford University: Center for Innovation in Global Health, Senior Fellow. 2015
 - Stanford University: Pediatric Research Competition for Residents, 1st Place. 2013
 - Lucile Packard Children's Hospital. ROSE (Recognition of Service Excellence) Award. 2011
 - Tufts University School of Medicine Carlton poster competition, 2nd Place. 2002

- Honors in Medical Epidemiology. Tufts University School of Medicine. 2002
- Excellence in Teaching Award. University of Hawaii. 1999

INTERNATIONAL EXPERIENCE

- Languages: Spanish: Conversational. Bengali: Basic Conversational
- Travel: Lived and taught English in Cochabamba, Bolivia in 1998-99; lived in Bangladesh 2005-2006
- Field-sites: Papua New Guinea, Hawaii, Antarctica, Bangladesh, Norway, India, Zimbabwe, Haiti, Nepal

EXTRAMURAL ACTIVE RESEARCH SUPPORT (PRIMARY PI)

Wellcome Trust

London, UK

2019-2022 Innovation Award associated with Epidemic Preparedness: Preventing and Controlling Cholera

- “Development of a cholera rapid diagnostic test that targets both *Vibrio cholerae* and vibriophage”

EXTRAMURAL ACTIVE RESEARCH SUPPORT (CORECIPIENT/ SUBRECIPIENT)

National Institutes of Health

Bethesda, MD

2018-2022 NIH-NIAID R01 to Dr. A. Levine, Brown University (R01 DK116163)

- “Development of Novel Clinical Tools for Dehydration Assessment in Adults and Adolescents with Diarrheal Disease”

National Institutes of Health

Bethesda, MD

2018-2022 NIH-NIAID R01 to Dr. D. Leung, University of Utah (R01 AI135115)

- “Estimating Cholera Burden with Cross-Sectional Immunologic Data”

National Institutes of Health

Bethesda, MD

2017-2021 NIH-NIAID R01 to Dr. D. Sack, Johns Hopkins University (R01 AI123422)

- “Epidemiology and Ecology of Cholera in Africa”

INTRAMURAL ACTIVE RESEARCH SUPPORT (CORECIPIENT/ SUBRECIPIENT)

Children’s Miracle Network

Gainesville, FL

2020-2022. CMN Emergency Response Award for SARS-CoV-2

- “Determination of the rates of COVID-19 detection in Symptomatic and Asymptomatic School-Age Children: A prospective cohort study”

Children’s Miracle Network

Gainesville, FL

2021-2022. CMN Bridge Award

- “Improving antibiotic stewardship for the treatment of diarrheal disease”

COMPLETED RESEARCH SUPPORT

Bill and Melinda Gates Foundation

Seattle, WA

2018-2020 BMGF Award to D. Leung, University of Utah

- “Diarrhea clinical prediction rule for bacterial vs. viral etiology using GEMS and GEMS1A data”

National Institutes of Health

Bethesda, MD

2014-2020 NIH Common Fund: Director's Early Independence Award (DP5 OD019893; 1.25 m)

- "A novel approach to improve patient care and diarrheal disease research using mobile technology"

National Institutes of Health

Bethesda, MD

2016-2020 NIH-FIC. Mobile Health: Technology and Outcomes in LMIC (R21 TW010182; 250k)

- "Evaluation of a mHealth platform for diarrheal disease decision support and real-time epidemiology"

Bill and Melinda Gates Foundation

Seattle, WA

2016-2017 BMGF-Grand Challenges Explorations Award to Dr. P. Bollyky MD PhD at Stanford University

- "Bacteriophage and The Physical Structure of the Microbiota in Gut Health"

Stanford University School of Medicine

Stanford, CA

2016-2017 Child Health Research Institute Seed Grant, Stanford University.

Yahoo Employee Foundation

Sunnyvale, CA

2014-2015 Yahoo Employee Foundation (YEF) Award

- Mobile technology award for the development of novel public health interventions

Stanford University School of Medicine

Stanford, CA

2010-2015 Harry Lyon Machen Institute Award

- Funding awarded as part of a post-doctoral fellowship via the Stanford Society of Physician Scholars and the Department of Pediatrics for independent cholera research

Stanford University School of Medicine

Stanford, CA

2013-2014 Stanford University Center for Innovation in Global Health Seed Grant

- Develop a mobile technology strategy to detect, monitor, and manage cholera outbreaks
- Co-PI: Dr. Sara Kache, MD (Director of Pediatric Global Health Education)

Stanford University School of Medicine

Stanford, CA

2013-2014 Stanford University Translational Research and Applied Medicine Pilot Grant

- Perform preliminary mass spectroscopy on a novel vibriocidal molecule
- Co-PI: Dr. Gary Schoolnik, MD (Professor of Medicine)

National Institutes of Health

Bethesda, MD

2005-2006 NIH Fogarty International Clinical Research Scholar

- Investigated the impact of host, pathogen, and phage dynamics on cholera transmission
- PI: Dr. Stephen Calderwood, MD (Chief of Infectious Diseases, MGH/ Harvard Medical School) and Dr. Firdausi Qadri, PhD (Director of Vaccine Sciences, International Centre for Diarrhoeal Disease Research, Bangladesh)

PENDING RESEARCH SUPPORT (PRIMARY PI)

National Institutes of Health

Bethesda, MD

2021-2023 NIH-NIAID. R21. Under review.

- “SARS-CoV-2 transmission among children and household contacts in Haiti”

▪ United States Agency for International Development Washington, DC

2022-2027 NIH-FOGARTY R21/R33. In preparation.

- “Improving early access to care with mHealth Decision-Support Technology at Pediatric Healthlines”

2022-2027 NIH-NIAID R01. In preparation.

- “Consequences of single-dose antibiotic regimens on the evolution and emergence of resistance during natural cholera infection”

2022-2025 USAID Development Innovation Ventures. Phase 2. In preparation

- “MotoMeds: A telemedicine and delivery service to prevent pediatric emergencies” [Haiti,Ghana]

PUBLICATIONS

1. Garbern SC, Chu T; Gainey M, Kanekar S, Nasrin S, Qu K; Barry MA, *Nelson EJ*, Leung DT, Schmid, Alam NH, Levine AC. Multidrug-Resistant Enteric Pathogens in Older Children and Adults with Diarrhea in Bangladesh: Epidemiology and Risk Factors. **Trop Med Health**. 2021. *in press*.
2. Barry MA, Qu K, Gainey M, Schmid CH, Garbern S, Nasrin S, Alam NH, Lee JA, *Nelson EJ*, Rosen R, Levine AC. Derivation and Internal Validation of a Score to Predict Dehydration Severity in Patients over 5 Years with Acute Diarrhea. **AJTMH**. 2021. *in press*.
3. McKune SL, Acosta D, Diaz N, Brittain K, Beaulieu DJ, Maurelli AT, *Nelson EJ*. Psychosocial health of school-aged children during the initial COVID-19 safer-at-home school mandates in Florida: a cross-sectional study. **BMC Public Health**. 2021 Mar 29;21(1):603. doi: 10.1186/s12889-021-10540-2. PMID: 33781220; PMCID: PMC8006116.
4. Levine AC, Barry MA, Gainey M, Nasrin S, Qu K, Schmid CH, *Nelson EJ*, Garbern SC, Monjory M, Rosen R, Alam NH. Derivation of the first clinical diagnostic models for dehydration severity in patients over five years with acute diarrhea. **PLoS Negl Trop Dis**. 2021 Mar 10;15(3):e0009266. doi: 10.1371/journal.pntd.0009266. PMID: 33690646; PMCID: PMC7984611.
5. Garbern SC, Chu TC, Yang P, Gainey M, Nasrin S, Kanekar S, Qu K, *Nelson EJ*, Leung DT, Ahmed D, Schmid CH, Alam NH, Levine AC. Clinical and socio-environmental determinants of multidrug-resistant vibrio cholerae 01 in older children and adults in Bangladesh. **Int J Infect Dis**. 2021 Feb 26;105:436-441. doi: 10.1016/j.ijid.2021.02.102. Epub ahead of print. PMID: 33647514.
6. *Nelson EJ*, McKune SL, Ryan KA, Lednicky JA, Crowe SR, Myers PD, Morris JG Jr. SARS-CoV-2 Positivity on or After 9 Days Among Quarantined Student Contacts of Confirmed Cases. **JAMA**. 2021 Feb 19:e212392. doi: 10.1001/jama.2021.2392. Epub ahead of print. PMID: 33605978; PMCID: PMC7896242.
7. Brintz BJ, Haaland B, Howard J, Chao DL, Proctor JL, Khan AI, Ahmed SM, Keegan LT, Greene T, Keita AM, Kotloff KL, Platts-Mills JA, *Nelson EJ*, Levine AC, Pavia AT, Leung DT. A modular approach to integrating multiple data sources into real-time clinical prediction for pediatric diarrhea. **eLIFE**. 2021 Feb 2;10:e63009. doi: 10.7554/eLife.63009. PMID: 33527894; PMCID: PMC7853717.
8. Brintz BJ, Howard JI, Haaland B, Platts-Mills JA, Greene T, Levine AC, *Nelson EJ*, Pavia AT, Kotloff KL, Leung DT. Clinical predictors for etiology of acute diarrhea in children in resource-limited settings. **PLoS**

Negl Trop Dis. 2020 Oct 9;14(10):e0008677. doi: 10.1371/journal.pntd.0008677. eCollection 2020 Oct.

9. Debashish B, Hossin R, Bardosh KL, Rahman M, Zion MI, Sujon H, Rashid MM, Salimuzzaman M, Flora MS, Qadri F, Khan AI, *Nelson EJ*. An ethnographic exploration of diarrheal disease management in public hospitals in Bangladesh: From Problems to Solutions. **Soc Sci Med.** 2020 Sep;260:113185. doi: 10.1016/j.socscimed.2020.113185.
10. *Nelson EJ*, Grembi JA, Chao DL, Andrews JR, Alexandrova L, Rodriguez PH, Ramachandran VV, Sayeed MdA, Wamala JF, Debes AK, Sack DA, Hryckowian AJ, Haque F, Khatun S, Rahman M, Chien A, Spormann AM, Schoolnik GK. Gold-standard cholera diagnostics are tarnished by lytic bacteriophage and antibiotics. **J Clin Microbiol.** 2020 Aug 24;58(9):e00412-20. doi: 10.1128/JCM.00412-20.
11. Hryckowian AJ, Merrill BD, Porter NT, Treuren WV, *Nelson EJ*, Garlena RA, Russel DA, Martens EC, Sonnenburg JL. Not so crass: *Bacteroides thetaiotaomicron*-infecting bacteriophages highlight the need to isolate and sequence gut-resident bacteriophages. **Cell Host Microbe.** 2020 Jul 8:S1931-3128(20)30352-8. doi: 10.1016/j.chom.2020.06.011.
12. Khan AI, Mack JA, Salimuzzaman M, Zion MI, Sujon H, Ball RL, Maples S, Rashid MM, Chisti MJ, Sarker SA, Biswas D, Hossin R, Bardosh KL, Begum YA, Ahmed A, Pieri D, Haque F, Rahman M, Levine AC, Qadri F, Flora MS, Gurka MJ, *Nelson EJ*. Electronic decision support and diarrhoeal disease guideline adherence (mHDM): a cluster randomised controlled trial. **Lancet Digit Health.** 2020 May;2(5):e250-e258. doi: 10.1016/S2589-7500(20)30062-5. PMID: 33328057.
13. Mavian C, Paisie TK, Alam MT, Browne C, Beau De Rochars VM, Nembrini S, Cash MN, *Nelson EJ*, Azarian T, Ali A, Morris JG Jr, Salemi M. Toxigenic *Vibrio cholerae* evolution and establishment of reservoirs in aquatic ecosystems. **Proc Natl Acad Sci U S A.** 2020 Apr 7;117(14):7897-7904. doi: 10.1073/pnas.1918763117.
14. Alexandrova L, Haque F, Rodriguez P, Marrazzo AC, Grembi JA, Ramachandran V, Hryckowian AJ, Adams CM, Siddique MSA, Khan AI, Qadri F, Andrews JR, Rahman M, Spormann AM, Schoolnik GK, Chien A, *Nelson EJ*. Identification of widespread antibiotic exposure in cholera patients correlates with clinically relevant microbiota changes. **J Infect Dis.** 2019 Jun 13. doi: 10.1093/infdis/jiz299.
15. Kim YY, Lew JF, Keith B, Telisma T, *Nelson EJ*, Brantly AC, Chavannes S, Anilis G, Yang Y, Liu M, Alam MT, Rashid MH, Morris JG Jr, Madsen Beau De Rochars VE. Acute Respiratory Illness in Rural Haiti. **Int J Infect Dis.** 2019 Apr;81:176-183. doi: 10.1016/j.ijid.2019.02.003. Epub 2019 Feb 14.
16. Bilal S*, *Nelson EJ**, Meisner L, Alam M., Al Amin SU, Ashenafi Y, Khan Md. AF, Alam NH, Levine AC. Evaluation of standard and mHealth-supported clinical diagnostic tools for assessing dehydration in patients with diarrhea in rural Bangladesh. **AJTMH.** 2018. May. doi: 10.4269/ajtmh.17-0648 *Co-first authors.
17. Andrews JR, Leung DT, Ahmed S., Malek MA, Ahmed D, Begum Y, Qadri F, Ahmed T, Faruque ASG, *Nelson EJ*. Determinants of life-threatening diarrheal disease at hospital presentation: evidence from 22 years of admissions in Bangladesh. **PLoS NTD.** 2017 April; 11(4).
18. Gruninger RJ, Johnson RA, Das SK, *Nelson EJ*, Spivak ES, Contreras JR, Faruque ASG, Leung DT. Socioeconomic Determinants of Cipro-floxacin-Resistant Shigella Infections in Bangladeshi Children. **Pathog Immun.** 2017;2(1):89-101. doi: 10.20411/pai.v2i1.174. Epub 2017 Mar 25. PMID: 28603782; PMCID: PMC5461975.
19. Haque F, Ball RL, Khatun S, Ahmed M, Kache S, Chisti MJ, Sarker SA, Maples SD, Pieri D, Vardhan

- Korrapati T, Sarnquist C, Federspiel N, Rahman MW, Andrews JR, Rahman M, Nelson EJ. Evaluation of a Smartphone Decision-Support Tool for Diarrheal Disease Management in a Resource-Limited Setting. **PLoS Negl Trop Dis**. 2017 Jan 19;11(1):e0005290. doi: 10.1371/journal.pntd.0005290. PMID: 28103233; PMCID: PMC5283765.
20. De Leeuw RA, Westerman M, Nelson E, Ket JC, Scheele F. Quality specifications in postgraduate medical e-learning: an integrative literature review leading to a postgraduate medical e-learning model. **BMC Med Educ**. 2016 Jul 8;16:168. doi: 10.1186/s12909-016-0700-7. PMID: 27390843; PMCID: PMC4939034.
 21. Nelson EJ, Andrews JR, Maples S, Barry M, Clemens JD. Is a Cholera Outbreak Preventable in Post-earthquake Nepal? **PLoS Negl Trop Dis**. 2015 Aug 13;9(8):e0003961. doi: 10.1371/journal.pntd.0003961. PMID: 26270343; PMCID: PMC4535958.
 22. Nelson EJ, Nelson DS, Salam MA, Sack DA. Antibiotics for both moderate and severe cholera. **N Engl J Med**. 2011 Jan 6;364(1):5-7. doi: 10.1056/NEJMp1013771. Epub 2010 Dec 9. PMID: 21142691.
 23. Nelson E. Beyond cholera—the Zimbabwe health crisis. **Lancet Infect Dis**. 2009 Oct;9(10):587-8. doi: 10.1016/S1473-3099(09)70240-3. PMID: 19778760.
 24. Nelson EJ, Harris JB, Morris JG Jr, Calderwood SB, Camilli A. Cholera transmission: the host, pathogen and bacteriophage dynamic. **Nat Rev Microbiol**. 2009 Oct;7(10):693-702. doi: 10.1038/nrmicro2204. PMID: 19756008; PMCID: PMC3842031.
 25. Nelson EJ, Tanudra A, Chowdhury A, Kane AV, Qadri F, Calderwood SB, Coburn J, Camilli A. High prevalence of spirochetosis in cholera patients, Bangladesh. **Emerg Infect Dis**. 2009 April;15(4):571-573.
 26. Schild S, Nelson EJ, Bishop AL, Camilli A. Characterization of *Vibrio cholerae* outer membrane vesicles as a candidate vaccine for cholera. **Infect Immun**. 2009 Jan;77(1):472-84.
 27. Nelson EJ, Chowdhury A, Flynn J, Schild S, Bourassa L, Shao Y, LaRocque RC, Calderwood SB, Qadri F, Camilli A. Transmission of *Vibrio cholerae* is antagonized by lytic phage and entry into the aquatic environment. **PLoS Pathog**. 2008 Oct;4(10):e1000187.
 28. Schild S, Nelson EJ, Camilli A. Immunization with *Vibrio cholerae* outer membrane vesicles induces protective immunity in mice. **Infect Immun**. 2008 Oct;76(10):4554-63. Epub 2008 Aug 4.
 29. Kauk DS, de Leeuw R, Nelson EJ, Henning L, Pelikan J, Chisti M, Sack D. Cholera Outbreak Training and Shigellosis Program (COTS Program). A novel approach to preparing for outbreaks in emergency settings. (www.cotsprogram.org). International Centre for Diarrhoeal Disease Research, Bangladesh. **eBook 2008**.
 30. Nelson EJ, Chowdhury A, Harris JB, Begum YA, Chowdhury F, Khan AI, Larocque RC, Bishop AL, Ryan ET, Camilli A, Qadri F, Calderwood SB. Complexity of rice-water stool from patients with *Vibrio cholerae* plays a role in the transmission of infectious diarrhea. **Proc Natl Acad Sci U S A**. 2007 Nov 27;104(48):19091-6.
 31. Schild S, Tamayo R, Nelson EJ, Qadri F, Calderwood SB, Camilli A. Genes induced late in infection increase fitness of *Vibrio cholerae* after release into the environment. **Cell Host Microbe**. 2007 Oct 11;2(4):264-77.
 32. Nelson EJ, Tunsjø HS, Fidopiastis PM, Sørum H, Ruby EG. A novel *lux* operon in the cryptically bioluminescent fish pathogen *Vibrio salmonicida* is associated with virulence. **Appl Environ Microbiol**. 2007 Mar;73(6):1825-33. Epub 2007 Feb 2.

33. Butler SM, Nelson EJ, Chowdhury N, Faruque SM, Calderwood SB, Camilli A. Cholera stool bacteria repress chemotaxis to increase infectivity. **Mol Microbiol.** 2006 Apr;60(2):417-26.
34. Nelson EJ, Ghiorse WC. Isolation and identification of *Pseudoalteromonas piscicida* strain Cura-d associated with diseased damselfish (*Pomacentridae*) eggs. **J of Fish Diseases.** 1999 (22). 253-260.

PENDING PUBLICATIONS

1. Klarman B M, Schon J, Cajusma Y, Maples S, Beau de Rochars M V, Baril C, Nelson EJ. Care seeking and provider selection in pluralistic healthcare systems: A cross-sectional study in Haiti. *Under review* at **BMJ Open.** 2020.
2. KE Flaherty, Grembi JA, Ramachandran VV, Haque F, Khatun S, Rahman M, Maples S, Becker TK, Spormann AM, Schoolnik GK, Hryckowian A, Nelson EJ. High-throughput Low-cost nl-qPCR for Enteropathogens: A Proof-of-Concept Among Hospitalized Patients in Bangladesh. *Under review* at **PLoS One.** 2021.
3. Nasrin S, Garbern SC, Gainey M, Kanekar S, Qu K, Chu T, Schmid CH, Nelson EJ, Alam NH, Levine AC. Risk Factors for Bacterial Etiology of Acute Diarrhea in Patients Over Five Years of Age. 2021. *In preparation.*
4. Creasy-Marrazzo A*, Mahmoudisaber M*, Kamat MM, Chowdhury A, Harris JB, LaRocque RC, Qadri F, Camilli A, Calderwood SB, Basso KB, Shapiro BJ, Nelson EJ. Anaerobic conditions unmask antimicrobial resistance. *In preparation.* *Co-first authorship.
5. Garbern SC*; Nelson EJ*, Nasrin S, Keita AM, Brintz BJ, Gainey M, Badji H, Nasrin D, Howard J, Taniuchi M, Platts-Mills JA, Kotloff K, Haque R, Levine AC, Sow S, Alam NH, Leung DT. External Validation of Clinical Decision-Support Software for Viral Diarrhea Etiology Prediction in Young Children: A Prospective Multicenter Study in Bangladesh and Mali. *In preparation.* *Co-first authorship.