

Stephen P. Luby

Stanford University
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Education

Creighton University 1981
Bachelor of Arts, *summa cum laude* (philosophy)

University of Texas--Southwestern Medical School at Dallas
MD 1986

University of Rochester--Strong Memorial Hospital
Internship and residency in Internal Medicine.

Centers for Disease Control -- Epidemic Intelligence Service 1990
Completed Preventive Medicine Residency 1993

Professional Experience

Stanford University, 9/2012 – currently employed

- Professor of Medicine (Infectious Diseases & Geographic Medicine),
- Senior Fellow, Woods Institute for the Environment
- Senior Fellow, Freeman Spogli Institute for International Studies
- Associate Dean for Global Health Research
- Courtesy Appointment, Department of Pediatrics
- Associate Director for Diversity and Inclusion, Stanford Emmett Interdisciplinary Program in Environment and Resources

International Centre for Diarrheal Disease Research, Bangladesh (ICDDR,B)

Director, Centre for Communicable Diseases, 8/2004 – 8/2012

Country Director, US Centers for Disease Control, US Embassy Dhaka, 8/2004 – 8/2012

1. Secured funding for and oversaw an externally funded research program
 - a. Increased the annual research funding for the research program from \$400,000 in 2004 to > \$10 million
 - b. Increased the number of scientists working in the unit from 6 in 2004 to 44, and the number of employees from 22 to 500.
2. Coordinated collaboration between ICDDR,B and the Centers for Disease Control and Prevention
3. Facilitated multi-disciplinary research across the administrative divisions within ICDDR,B
4. Editor, *Health and Science Bulletin*, a quarterly surveillance update and original scientific report from ICDDR,B

Centers for Disease Control and Prevention

Medical Epidemiologist, Foodborne & Diarrheal Diseases Branch, 12/98 – 7/04

Major responsibilities

1. Direct the activities of the Cooperative Research and Development Agreement between the Procter and Gamble Company and Centers for Disease Control, Foodborne and Diarrheal Diseases
2. Direct a research program on typhoid fever epidemiology
3. Other principle collaborations
 - a. Consulted with the World Bank, Water and Sanitation Program on assessment of public private partnerships for handwashing promotion
 - b. Supervised Safe Water System collaboration between, *Projet Retro-CI* Abidjan, Ivory Coast and the Foodborne and Diarrheal Disease
 - c. Provided technical support and liaison with the Safe Injection Global Network

Aga Khan University, Karachi, Pakistan

Assistant Professor, Epidemiology, Community Health Sciences Department, 10/93 - 10/98

Major responsibilities:

Teaching:

1. Developed the curriculum and taught epidemiology to Masters of Science in Epidemiology students. Courses include Epidemiology I, Epidemiology II, Epidemiology III, Management Information Systems, Introduction to Microcomputers, Selected Topics in Advanced Epidemiology.
2. Taught epidemiology to medical undergraduates.

Research:

1. Developed an independently funded research program.
2. Supervised the research officer program, a program for recent medical graduates who performed epidemiologic research and prepared their findings for publication.

Service:

1. Chaired the committee that developed the successful proposal for a Master of Science in Epidemiology Program at the Aga Khan University.
2. Chaired the committee that restarted the Community Medicine Residency Program.
3. Directed the Information Services Unit for the Community Health Science Department.
4. Directed the epidemiology unit, for the Community Health Science Department.

Centers for Disease Control and Prevention, Atlanta, Georgia

Preventive Medicine Resident, Malaria Branch, 7/92 - 9/93

Major activities:

1. Field supervisor for Malaria case definition study, Mangochi and Nkhoma, Malawi 4/93-5/93
2. Supervised field activities and was malaria branch liaison to North Carolina state and local health departments during investigation of the rapid resettlement of Vietnamese Montagnard refugees.
3. Coordinated the field exercise study for the incoming class of 1993 Epidemic Intelligence Service officers.

Centers for Disease Control, Atlanta, Georgia

Epidemic Intelligence Service officer, Division of Field Epidemiology

Stationed at South Carolina Department of Health and Environmental Control, 7/90 - 6/92

Major activities:

1. Investigated 11 acute outbreaks
2. Served as a technical support officer for a UNICEF/USAID/WHO/CDC sponsored vaccine coverage and malaria and HIV/AIDS knowledge attitude and practices survey Haut-Zaire region, Zaire 2/91 - 3/91
3. Performed 2 analytic studies of statewide HIV surveillance data.

The Genesee Hospital, Rochester, New York
500 bed tertiary care inner city hospital
Attending physician, Emergency Division 6/89 - 6/90

Strong Memorial Hospital, Rochester, New York
Internal medicine resident 6/86 - 6/89

University of Texas Health Science Center, Dallas
Computer Programmer, Assembler language and FORTRAN
Pulmonary physiology laboratory 1/84 - 5/86

Hartford Hospital, Hartford, Connecticut
Computer Programmer, Event Driven Language and BASIC
Pulmonary laboratory 6/81 - 8/82

Certifications and Awards

Inaugural Oklahoma University International WaTER Prize, 2009 (to recognize an individual who has made significant international contributions, either through research or teaching or service activities, in the field of water supply and sanitation, with a focus on the world's poorest living in small villages/communities in rural or remote regions.)

Manuscript awards:

- Shepard Award (Centers for Disease Control and Prevention)
 - Best Paper in the Prevention Category, 2015 (co-author) (Estívariz CF et al. Immunogenicity of three doses of bivalent, trivalent, or type 1 monovalent oral poliovirus vaccines with a 2 week interval between doses in Bangladesh: an open-label, non-inferiority, randomised, controlled trial. *Lancet Infect Dis.* 2015 Aug; 15(8):898-904.)
 - Best Paper in the Assessment Category, 2013 (senior author) (Sultana NK et al. Impact of introduction of the *Haemophilus influenzae* type b conjugate vaccine into childhood immunization on meningitis in Bangladeshi infants. *J Pediatr.* 2013 Jul; 163(1 Suppl):S73-8.)
 - Best Paper in the Prevention Category, 2005 (first author) (Luby SP et al. Effect of handwashing on child health: a randomised controlled trial. *Lancet.* 2005 Jul 16-22; 366(9481):225-33.)
- *American Journal of Epidemiology* 2014 Article of the Year (co-author): Gurley ES et al. Indoor exposure to particulate matter and age at first acute lower respiratory infection in a low-income urban community in Bangladesh. *Am J Epidemiol.* 2014 Apr 15; 179(8):967-73.
- Favourite paper in infectious diseases, 2005. (Lancet Infectious Diseases, December 2005), (Luby SP et al. Effect of handwashing on child health: a randomised controlled trial. *Lancet.* 2005 Jul 16-22; 366(9481):225-33.)
- Senior author on Alexander D. Langmuir Prize Manuscript, Center for Disease Control, 2001. (Brooks JT et al. *Salmonella* Typhimurium infections transmitted by chlorine-pretreated clover sprout seeds. *Am J Epidemiol.* 2001 Dec 1; 154(11):1020-8.)
- Nakano Award Manuscripts, Centers for Disease Control:
 - 2012 (Bowen A et al. Association between intensive handwashing promotion and child development in Karachi, Pakistan: a cluster-randomized, controlled trial. *Arch Pediatr Adolesc Med.* 2012 Nov; 166(11):1037-44.)

- 2007 (Chiller TM et al. Reducing diarrhoea in Guatemalan children: randomized controlled trial of flocculant-disinfectant for drinking-water. *Bull World Health Organ*. 2006 Jan; 84(1):28-35.)
- 2005 (Luby SP et al. Effect of intensive handwashing promotion on childhood diarrhea in high-risk communities in Pakistan: a randomized controlled trial. *JAMA*. 2004 Jun 2; 291(21):2547-54.)
- 2004 (Reller ME et al. A randomized controlled trial of household-based flocculant-disinfectant drinking water treatment for diarrhea prevention in rural Guatemala. *Am J Trop Med Hyg*. 2003 Oct; 69(4):411-9.)

Begum Rokeya Sakhawat Hossain Teaching Excellence Award, James P Grant School of Public Health, BRAC University, Inaugural award 2012 with repeat award in 2014, 2015, 2017, 2018 and 2019.

Outstanding Teaching Award, Department of Community Health Sciences, Aga Khan University, 1996

Center for Global Health Director's Medal of Excellence in Global Health (CDC, 2012)

Diplomate, National Board of Medical Examiners, 1987, #332215

Diplomate, American Board of Internal Medicine, 1989, #127955

Medical License

- Georgia, 1992 - 2006, #035937
- Virginia, 2007 – 2014, #0101242859
- California, 2014 – current, #132799

US Government Top Secret Security Clearance, 2004 - 2014

HIV/AIDS Prevention Shield, for contributions to prevention of HIV/AIDS in Sindh, Pakistan, Government of Sindh, 2001

Contribution to water and health research profiled in *Lancet* (Kirby T, Profile Stephen Luby: promoting the importance of water for health, *Lancet*. 2009 Dec 12; 374:1961)

Work on Nipah virus profiled in *Science*. (Stone R. Breaking the chain in Bangladesh, *Science*. 2011 March 4; 331(6021):1128-1131)

Affiliations

BRAC University, James P. Grant School of Public Health

- Co-taught Introduction to Epidemiology Class with Dr. Shams el Arifeen, 2007 – 2011
- Co-directed and taught, The Epidemiology of Infectious Diseases of Public Health Importance, with Dr. Richard Cash 2006 – 2019.

The American Society of Tropical Medicine and Hygiene, Member

EcoHealth Alliance, Science and Policy Advisory Group

One Health Bangladesh, Advisory Committee

Safe Injection Global Network, Member

Public Private Partnership for Handwashing Promotion, Global Steering Committee, Member

Languages

English – native language, speak and write fluently

Bengali – fluent intermediate conversational and presentation skills

Spanish – Have worked professionally in Spanish speaking countries including negotiation of projects, protocols, and implementation details with Spanish speaking colleagues, scientific presentations, and routine correspondence

French – somewhat out of practice basic conversational, reading, and writing skills

Urdu – quite out of practice basic conversational skill

Research Projects

Since moving to Pakistan in 1993, secured external research funding as a principal or co-principal investigator for >40 research projects with a total funding of ~\$70 million.

Current Projects

1. Development of Vaccines Against Nipah Using Measles Vector Technology
Goal: Develop Vaccine against Nipah Virus using Measles Vector technology
Funder: CEPI; \$3.6 million (Stanford budget; \$31 million total); 2019 - 2024
Investigators: Kai C, Depraetere H, Luby SP, Luitjens A
Role: Co-investigator
2. Health and Economic Benefits of Water-Sensitive Revitalisation in informal Urban Settlements
Goal: Rigorously evaluate a new model for managing wastewater and floodwater in informal settlements in Suva, Fiji and Makassar, Indonesia
Funder: Wellcome Trust; \$508,187 (Stanford budget; >\$20 million total); 2017 - 2022
Investigators: Brown R, Wong T, Leder K, Luby SP, Chown S
Role: Co-Principal Investigator – Oversee the health outcome evaluation
3. Developing a Monitoring, Evaluation & Learning Framework for the Hilton Foundation's 2017-2021 Safe Water Strategy
Goal: Assess the impact of a district based strategy to provide water in 6 Sub-saharan countries
Funder: Conrad N. Hilton Foundation; \$2.4 million; 2016 - 2021
Investigators: Davis J, Luby SP
Role: Co-investigator

4. Amplifying the value of rural WASH investments
 - Goal: Assess the impact of amplifying value of rural WASH investments
 - Funder: Conrad N. Hilton Foundation; \$1.7 million; 2018 - 2021
 - Investigators: Davis J, Luby SP
 - Role: Co-investigator

5. Research on Integrated Nutrition, Early childhood stimulation and WASH
 - Goal: Develop and deliver a scalable health worker based intervention that improves water, sanitation, hygiene, maternal antenatal nutrition, child nutrition, early childhood stimulation and reducing lead exposure
 - Funder: Bill and Melinda Gates foundation; \$2.5 million; 2016 - 2020
 - Investigators: Rahman M, Luby SP, Winch PW, Fernald L, Stewart C, Mridha M, Tofail F
 - Role: Co-Principal Investigator

6. Effects of sanitation on pathogen transmission and child health in Bangladesh
 - Goal: To measure the effect of sanitation interventions on environmental fecal contamination
 - Funder: National Institutes of Health; \$2,271,443; 2014 - 2019
 - Investigators: Colford JM, Luby SP, Nelson K, Unicomb L, Hubbard A, Arnold B, Pickering A, Ercumen A
 - Role: Co-investigator

7. Evaluation of a Typhoid Conjugate Vaccine Introduction Program in Navi Mumbai, India
 - Goal: Evaluate the effectiveness of a new typhoid vaccine introduction by the Navi Mumbai Municipal Corporation
 - Funder: Bill and Melinda Gates Foundation; \$509,976; 2017 - 2020
 - Investigators: Luby SP, Andrews J, Horng L
 - Role: Principal Investigator

8. Surveillance for Enteric Fever in Asia Project (SEAP) - Supplement
 - Goal: Population based surveillance for typhoid fever in Nepal, Bangladesh and Pakistan
 - Funder: Sabin Vaccine Institute; \$65,748; 2016 - 2019
 - Investigators: Andrews J, Luby SP, Yu AT
 - Role: Co-investigator

9. Optimizing Ventilation to Improve Health
 - Goal: Developing ventilation interventions that improve air exchange in Dhaka slums
 - Funder: Unorthodox Philanthropy; \$500,000; 2017 - 2020
 - Investigators: Luby SP, Miller NG, Winch PJ, Ram PK, Nizame FA
 - Role: Principal Investigator

10. Predictive simulations of ventilation rates to decrease respiratory illness in Bangladesh slums
 - Goal: Develop a ventilation model that will support building standards for homes in low income communities
 - Funder: Stanford Woods Institute for the Environment; \$197,179; 2017 - 2019
 - Investigators: Gorle C, Luby SP
 - Role: Co-Principal Investigator

11. Comparing hospital hand hygiene in Liberia: soap, alcohol, and hypochlorite
 - Goal: Evaluating practical interventions to improve handwashing in Liberian hospitals

- Funder: U.S. Navy; \$403,309; 2017 - 2020
Investigators: Luby SP, Horng LM
Role: Principal Investigator
12. Assessing brick kilns number, location and use in Bangladesh
Goal: Utilize remote satellite sensing to generate publicly available maps of brick kilns in Bangladesh and use this to stimulate efforts to reduce pollution
Funder: Woods Institute for the Environment; \$200,000; 2016 - 2020
Investigators: Luby S, Zebker H, Fukuyama F
Role: Principal Investigator
13. Health Effects of living near unimproved brick kilns and a path to improvement
Goal: Measure the risk of child and adult respiratory disease from living near a brick kilns in rural Bangladesh
Funder: Stanford Allergy Sensitivity Center / Pulmonary; \$160,000; 2017 - 2019
Investigators: Luby SP, Biswas D
Role: Principal Investigator
14. Environmental Arsenic Exposure, microbiome, and human health
Goal: Assess the impact of the microbiome on mediating the impact of arsenic exposure on health
Funder: National Institutes of Health; \$955,039; 2014 - 2019
Investigators: Relman D, Luby SP
Role: Co-investigator
15. Pigs and Parasites: Developing Interventions to End Cycles of Poverty Caused by *Taenia solium* and Neurocysticercosis
Goal: Assess the pathways of *Taenia solium* transmission in rural Sichuan District, China. Develop and iteratively revise interventions to interrupt transmission
Funder: Stanford SEED; \$307,663; 2016 - 2020
Investigators: Luby SP, Rozelle S, Felt S, Openshaw J
Role: Principal Investigator
16. Molecular Monitoring of Domestic Wastewater for Community Health
Goal: Extract microbiological information from the waste stream
Funder: Stanford Bio-X; \$200,000; 2016 - 2019
Investigators: Criddle C, Luby S
Role: Co-investigator
17. Improving health, intelligence and economic growth by reducing lead exposure
Goal: Develop and pilot incentive-compatible solutions to reduce lead exposure
Funder: Stanford Center on Global Poverty and Development; \$1,000,000; 2018 - 2022
Investigators: Luby S
Role: Principal Investigator

Bibliography

Published work includes >400 original peer reviewed manuscripts including

- 42 as first author
- 157 as senior author
- 55 manuscripts represent the first scientific publication of the mentored first author.

Web of Science

- Hirsch index = 59
- > 15,700 citations

Google Scholar: > 26,000 citations

In Press

1. Naser AM, Rahman M, Unicomb L, Doza S, Selim S, Chaity M, **Luby SP**, Anand S, Staimez L, Clasen TF, Gujral UP, Gribble MO, Narayan KMV. Past sodium intake, contemporary sodium intake, and cardiometabolic health in southwest coastal Bangladesh. *J Am Heart Assoc*. In Press.
2. Grembi JA, Lin A, Karim MA, Islam MO, Miah R, Arnold BF, McQuade ETR, Ali S, Rahman MZ, Hussain Z, Shoab AK, Famida SL, Hossen MS, Mutsuddi P, Rahman M, Unicomb L, Haque R, Taniuchi M, Liu J, Platts-Mills JA, Holmes SP, Stewart CP, Benjamin-Chung J, Colford JM, Houpt ER, **Luby SP**. Effect of water, sanitation, handwashing and nutrition interventions on enteropathogens in children 14 months old: a cluster-randomized controlled trial in rural Bangladesh. *J Infect Dis*. In Press.
3. Goddard F, Ban R, Barr DB, Brown J, Cannon J, Colford JM, Eisenberg JNS, Ercumen A, Petach H, Freeman MC, Levy K, **Luby SP**, Moe C, Pickering AJ, Sarnat JA, Stewart JR, Thomas EA, Taniuchi M, Clasen TF. Measuring environmental exposure to enteric pathogens in low-income settings: review and recommendations of an interdisciplinary working group. *Environ Sci Technol*. In Press.
4. Paul KK, Sazzad HMS, Rahman M, Sultana S, Hossain MJ, Ledermann JP, Burns P, Friedman MS, Flora MS, Fischer M, Hills S, **Luby SP**, Gurley ES. Hospital-based surveillance for Japanese encephalitis in Bangladesh, 2007-2016: Implications for introduction of immunization. *Int J Infect Dis*. In Press.
5. Naser AM, Doza S, Rahman M, Unicomb L, Ahmed KM, Anand S, Selim S, Shamsudduha M, Narayan KMV, Chang H, Clasen TF, Gribble MO, **Luby SP**. Consequences of access to water from managed aquifer recharge systems for blood pressure and proteinuria in south-west coastal Bangladesh: a stepped-wedge cluster-randomized trial. *Int J Epidemiol*. In Press.
6. Jannat K, **Luby SP**, Unicomb L, Rahman M, Winch PJ, Hossain MI, Stewart CP. Snack food consumption among Bangladeshi children, supplementary data from a large RCT. *Matern Child Nutr*. In Press.
7. Kwong LH, Ercumen A, Pickering AJ, Unicomb L, Davis J, Leckie JO, **Luby SP**. Soil ingestion among young children in rural Bangladesh. *J Expo Sci Environ Epidemiol*. In Press.

Original Scientific Publications

1. Jahan F, Nuruzzaman M, Sultana F, Mahfuz MT, Rahman M, Akhand F, **Luby SP**, Unicomb L, Winch PJ. Piloting an acceptable and feasible menstrual hygiene products disposal system in urban and rural schools in Bangladesh. *BMC Public Health*. 2020 Sep 7; 20(1):1366. doi: 10.1186/s12889-020-09413-x
2. Akter F, Rahman M, Pitchik HO, Winch PJ, Fernald LCH, Nurul Huda TM, Jahir T, Amin R, Das JB, Hossain K, Shoab AK, Khan R, Yeasmin F, Sultana J, **Luby SP**, Tofail F. Adaptation and Integration of Psychosocial Stimulation, Maternal Mental Health and Nutritional Interventions for Pregnant and Lactating Women in Rural Bangladesh. *Int J Environ Res Public Health*. 2020 Aug 27; 17(17):E6233. doi: 10.3390/ijerph17176233
3. Stanaway JD, Atuhebwe PL, **Luby SP**, Crump JA. Assessing the Feasibility of Typhoid Elimination. *Clin Infect Dis*. 2020 Jul 29; 71(Supplement_2):S179-S184. doi: 10.1093/cid/ciaa585
4. Date K, Shimpi R, **Luby S**, N R, Haldar P, Katkar A, Wannemuehler K, Mogasale V, Pallas S, Song D, Kunwar A, Loharikar A, Yewale V, Ahmed D, Horng L, Wilhelm E, Bahl S, Harvey P, Dutta S, Bhatnagar P. Decision Making and Implementation of the First Public Sector Introduction of Typhoid Conjugate Vaccine-Navi Mumbai, India, 2018. *Clin Infect Dis*. 2020 Jul 29; 71(Supplement_2):S172-S178. doi: 10.1093/cid/ciaa597.
5. Carey ME, MacWright WR, Im J, Meiring JE, Gibani MM, Park SE, Longley A, Jeon HJ, Hemlock C, Yu AT, Soura A, Aiemjoy K, Owusu-Dabo E, Terferi M, Islam S, Lunguya O, Jacobs J, Gordon M, Dolecek C, Baker S, Pitzer VE, Yousafzai MT, Tonks S, Clemens JD, Date K, Qadri F, Heyderman RS, Saha SK, Basnyat B, Okeke IN, Qamar FN, Voysey M, **Luby S**, Kang G, Andrews J, Pollard AJ, John J, Garrett D, Marks F. The Surveillance for Enteric Fever in Asia Project (SEAP), Severe Typhoid Fever Surveillance in Africa (SETA), Surveillance of Enteric Fever in India (SEFI), and Strategic Typhoid Alliance Across Africa and Asia (STRATAA) Population-based Enteric Fever Studies: A Review of Methodological Similarities and Differences. *Clin Infect Dis*. 2020 Jul 29; 71(Supplement_2):S102-S110. doi: 10.1093/cid/ciaa367
6. Andrews JR, Yu AT, Saha S, Shakya J, Aiemjoy K, Horng L, Qamar F, Garrett D, Baker S, Saha S, **Luby SP**. Environmental Surveillance as a Tool for Identifying High-risk Settings for Typhoid Transmission. *Clin Infect Dis*. 2020 Jul 29; 71(Supplement_2):S71-S78. doi: 10.1093/cid/ciaa513
7. Islam M, Rahman M, Unicomb L, Kafi MAH, Rahman M, Alam M, Sen D, Islam S, Pickering AJ, Hubbard AE, **Luby SP**, Arnold BF, Colford JM Jr, Ercumen A. Child defecation and feces management practices in rural Bangladesh: Associations with fecal contamination, observed hand cleanliness and child diarrhea. *PLoS One*. 2020 Jul 20; 15(7):e0236163. doi: 10.1371/journal.pone.0236163
8. Grembi JA, Mayer-Blackwell K, **Luby SP**, Spormann AM. High-Throughput Multiparallel Enteropathogen Detection via Nano-Liter qPCR. *Front Cell Infect Microbiol*. 2020 Jul 15; 10:351. doi: 10.3389/fcimb.2020.00351

9. Lee KH, Nikolay B, Sazzad HMS, Hossain MJ, Khan AKMD, Rahman M, Satter SM, Nichol ST, Klena JD, Pulliam JRC, Kilpatrick AM, Sultana S, Afroj S, Daszak P, **Luby S**, Cauchemez S, Salje H, Gurley E. Changing contact patterns over disease progression: Nipah virus as a case study. *J Infect Dis*. 2020 Jul 6; 222(3):438-442. doi: 10.1093/infdis/jiaa091
10. Ryckman T, **Luby S**, Owens DK, Bendavid E, Goldhaber-Fiebert JD. Methods for Model Calibration under High Uncertainty: Modeling Cholera in Bangladesh. *Med Decis Making*. 2020 Jul; 40(5):693-709. doi: 10.1177/0272989X20938683
11. Kwong LH, Ercumen A, Pickering AJ, Unicomb L, Davis J, **Luby SP**. Correction to: Age-related changes to environmental exposure: variation in the frequency that young children place hands and objects in their mouths. *J Expo Sci Environ Epidemiol*. 2020 Jul; 30(4):769-772. doi: 10.1038/s41370-019-0160-3
12. Nikolay B, Salje H, Khan AKMD, Sazzad HMS, Satter SM, Rahman M, Doan S, Knust B, Flora MS, **Luby SP**, Cauchemez S, Gurley ES. A Framework to Monitor Changes in Transmission and Epidemiology of Emerging Pathogens: Lessons from Nipah Virus. *J Infect Dis*. 2020 May 11; 221(Supplement_4):S363-S369. doi: 10.1093/infdis/jiaa074
13. Ashraf S, Islam M, Unicomb L, Rahman M, Winch PJ, Arnold BF, Benjamin-Chung J, Ram PK, Colford JM, **Luby SP**. Effect of Improved Water Quality, Sanitation, Hygiene and Nutrition Interventions on Respiratory Illness in Young Children in Rural Bangladesh: A Multi-Arm Cluster-Randomized Controlled Trial. *Am J Trop Med Hyg*. 2020 May; 102(5):1124-1130. doi: 10.4269/ajtmh.19-0769
14. Benjamin-Chung J, Pilotte N, Ercumen A, Grant JR, Maasch JRMA, Gonzalez AM, Ester AC, Arnold BF, Rahman M, Haque R, Hubbard AE, **Luby SP**, Williams SA, Colford JM Jr. Comparison of multi-parallel qPCR and double-slide Kato-Katz for detection of soil-transmitted helminth infection among children in rural Bangladesh. *PLoS Negl Trop Dis*. 2020 Apr 24; 14(4):e0008087. doi: 10.1371/journal.pntd.0008087
15. Naser AM, Rahman M, Unicomb L, Parvez SM, Islam S, Doza S, Khan GK, Ahmed KM, Anand S, **Luby SP**, Shamsudduha M, Gribble MO, Narayan KMV, Clasen TF. Associations of drinking rainwater with macro-mineral intake and cardiometabolic health: a pooled cohort analysis in Bangladesh, 2016–2019. *NPJ Clean Water*. 2020 Apr 24; 3(20):1-11. doi: org/10.1038/s41545-020-0067-5
16. Fuhrmeister ER, Ercumen A, Pickering AJ, Jeanis KM, Crider Y, Ahmed M, Brown S, Alam M, Sen D, Islam S, Kabir MH, Islam M, Rahman M, Kwong LH, Arnold BF, **Luby SP**, Colford JM Jr, Nelson KL. Effect of Sanitation Improvements on Pathogens and Microbial Source Tracking Markers in the Rural Bangladeshi Household Environment. *Environ Sci Technol*. 2020 Apr 7; 54(7):4316-4326. doi: 10.1021/acs.est.9b04835
17. Nahar N, Asaduzzaman M, Mandal UK, Rimi NA, Gurley ES, Rahman M, Garcia F, Zimicki S, Sultana R, **Luby SP**. Hunting Bats for Human Consumption in Bangladesh. *Ecohealth*. 2020 Mar; 17(1):139-151. doi: 10.1007/s10393-020-01468-x
18. Olival KJ, Latinne A, Islam A, Epstein JH, Hersch R, Engstrand RC, Gurley ES, Amato G, **Luby SP**,

- Daszak P. Population genetics of fruit bat reservoir informs the dynamics, distribution, and diversity of Nipah virus. *Mol Ecol.* 2020 Mar; 29(5):970-985. doi: 10.1111/mec.15288
19. **Luby SP**, Davis J, Brown RR, Gorelick SM, Wong THF. Broad approaches to cholera control in Asia: Water, sanitation and handwashing. *Vaccine.* 2020 Feb 29; 38 Suppl 1:A110-A117. doi: 10.1016/j.vaccine.2019.07.084
 20. Fuhrmeister ER, Ercumen A, Pickering AJ, Jeanis KM, Ahmed M, Brown S, Arnold BF, Hubbard AE, Alam M, Sen D, Islam S, Kabir MH, Kwong LH, Islam M, Unicomb L, Rahman M, Boehm AB, **Luby SP**, Colford JM Jr, Nelson KL. Correction to Predictors of Enteric Pathogens in the Domestic Environment from Human and Animal Sources in Rural Bangladesh. *Environ Sci Technol.* 2020 Feb 18; 54(4):2560. doi: 10.1021/acs.est.0c00091
 21. Lin A, Ali S, Arnold BF, Rahman MZ, Alauddin M, Grembi J, Mertens AN, Famida SL, Akther S, Hossen MS, Mutsuddi P, Shoab AK, Hussain Z, Rahman M, Unicomb L, Ashraf S, Naser AM, Parvez SM, Ercumen A, Benjamin-Chung J, Haque R, Ahmed T, Hossain MI, Choudhury N, Jannat K, Alauddin ST, Minchala SG, Cekovic R, Hubbard AE, Stewart CP, Dewey KG, Colford JM, **Luby SP**. Effects of water, sanitation, handwashing, and nutritional interventions on environmental enteric dysfunction in young children: a cluster-randomized controlled trial in rural Bangladesh. *Clin Infect Dis.* 2020 Feb 14; 70(5):738-747. doi: 10.1093/cid/ciz291
 22. Paul RC, Nazneen A, Banik KC, Sumon SA, Paul KK, Akram A, Uzzaman MS, Iqbal T, Tejada-Strop A, Kamili S, **Luby SP**, Gidding HF, Hayen A, Gurley ES. Hepatitis E as a cause of adult hospitalization in Bangladesh: Results from an acute jaundice surveillance study in six tertiary hospitals, 2014-2017. *PLoS Negl Trop Dis.* 2020 Jan 21; 14(1):e0007586. doi: 10.1371/journal.pntd.0007586
 23. Kwong LH, Ercumen A, Pickering AJ, Unicomb L, Davis J, **Luby SP**. Age-related changes to environmental exposure: variation in the frequency that young children place hands and objects in their mouths. *J Expo Sci Environ Epidemiol.* 2020 Jan; 30(1):205-216. doi: 10.1038/s41370-019-0115-8
 24. Sazzad HMS, **Luby SP**, Sejvar J, Rahman M, Gurley ES, Hill V, Murphy JL, Roy S, Cope JR, Ali IKM. A case of primary amebic meningoencephalitis caused by *Naegleria fowleri* in Bangladesh. *Parasitol Res.* 2020 Jan; 119(1):339-344. doi: 10.1007/s00436-019-06463-y
 25. Biswas D, Ahmed M, Roguski K, Ghosh PK, Parveen S, Nizame FA, Rahman MZ, Chowdhury F, Rahman M, **Luby SP**, Sturm-Ramirez K, Iuliano AD. Effectiveness of a Behavior Change Intervention with Hand Sanitizer Use and Respiratory Hygiene in Reducing Laboratory-Confirmed Influenza among Schoolchildren in Bangladesh: A Cluster Randomized Controlled Trial. *Am J Trop Med Hyg.* 2019 Dec; 101(6):1446-1455. doi: 10.4269/ajtmh.19-0376
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Reviews and Commentaries

1. **Luby SP**. Clean water, clean hands or new vaccines? *J Infect.* 2017 Jun; 74 Suppl 1:S18-S22. doi: 10.1016/S0163-4453(17)30186-X
2. Davies HG, Bowman C, **Luby SP**. Cholera – Management and Prevention. *J Infect.* 2017 Jun; 74 Suppl 1:S66-S73. doi: 10.1016/S0163-4453(17)30194-9
3. **Luby SP**, Saha S, Andrews JR. Towards sustainable public health surveillance for enteric fever.

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4. **Luby SP**. Is targeting access to sanitation enough? *Lancet Glob Health*. 2014 Nov; 2(11):e619-20. [http://dx.doi.org/10.1016/S2214-109X\(14\)70326-2](http://dx.doi.org/10.1016/S2214-109X(14)70326-2)
5. **Luby SP**. The pandemic potential of Nipah virus. *Antiviral Research*. 2013 Oct; 100(1):38-43.
6. **Luby SP**, Gurley ES. Epidemiology of henipavirus disease in humans. *Curr Top Microbiol Immunol*. 2012 Jul 1; 359:25-40.
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8. Curtis V, Schmidt W, **Luby S**, Florez R, Touré O, Biran A. Hygiene: new hopes, new horizons? *Lancet Infect Dis*. 2011 Apr; 11(4):312-21.
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11. **Luby SP**, Brooks WA, Saha SK, el-Arifeen S, Naheed A, Sack D, Breiman RF. Use of multiple surveillance modalities to assess the epidemiology of *Streptococcus Pneumoniae* infection in Bangladesh. *Clin Infect Dis*. 2009 Mar 1; 48 Suppl 2:S97-102.
12. Clasen T, Bartram J, Colford J, **Luby S**, Quick R, Sobsey M. Comment on "Household water treatment in poor populations: is there enough evidence for scaling up now?" *Environ Sci Technol*. 2009 Jul 15; 43(14):5542-4.
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15. **Luby SP**, Curtis V. Commentary: Hand washing for preventing diarrhoea. *Int J Epidemiol*. 2008 Jun; 37(3):470-3.
16. **Luby SP**. Quality of drinking water. *BMJ*. 2007 Apr 14; 334(7597):755-6.
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19. **Luby S**. The role of handwashing in improving hygiene and health in low-income countries. *American Journal of Infection Control*. 2001 Aug; 29(4):239-40.
20. **Luby S**. Injection Safety. *Emerging Infectious Diseases*. 2001 Jun; 7(3 Suppl):535.

21. Jones JL, **Luby S**, Gamble WB. Disease reporting in South Carolina. *Journal of the South Carolina Medical Association*. 1991 Feb; 87(2):69-70.

Submitted Manuscripts

1. Epstein JH, Anthony SJ, Islam A, Kilpatrick AM, Khan SA, Sanchez M, Ross N, Smith I, Zambrana-Torrel C, Tao Y, Islam A, Quan PL, Olival KJ, Gurley ES, Hossein MJ, Field HE, Fielder MD, Briese T, Rahman M, Cramer G, Wang LF, **Luby SP**, Lipkin WI, Daszak P. Viral dynamics in bats drive timing of Nipah virus outbreaks in Bangladesh. *Science Advances*. Submitted.
2. Al-Emran HM, Kakoly NS, **Luby SP**, Modak JK, Islam M, El Arifeen SE, Khan NZ, Baqui AH, Breiman RF, Saha SK. Pneumococcal Meningitis in under-5 children of urban Bangladesh: Incidence, outcome and serotype coverage in pre-vaccine era. *Clinical Infectious Disease*. Under review.
3. Kamm K, Nasreen S, Vujcic J, Rahman MA, El-Arifeen S, Zaman K, **Luby SP**, Ram PK. Impact of a brief in-home neonatal health promotion on self-reported birth and neonatal care practices in rural Bangladesh. *Maternal and Child Health Journal*. Under review.
4. Ashraf S, Arnold BF, Unicomb L, Hussain F, Clasen T, **Luby S**. Factors associated with human faeces observed around households in a setting with high latrine coverage in rural Bangladesh. *Trop Med Int Health*. Under review.

Textbook Chapters

1. Daszak P, Plowright RK, Epstein JH, Pulliam J, Abdul Rahman S, Field HE, Smith CS, Olival KJ, **Luby S**, Halpin K, Hyatt AD & the Henipavirus Ecology Research Group (HERG). The emergence of Nipah and Hendra virus: pathogen dynamics across a wildlife-livestock-human continuum. In: Collinge SK, Ray C (eds.), *Disease Ecology: Community structure and pathogen dynamics*. Oxford University Press, 2006; (Chapter 13) pp. 186-201.
2. Larson CP, Henning L, **Luby SP**, Faruque ASG. Infectious Childhood Diarrhea in Developing Countries. In: Kramer A, Kretzschmar M, Krickeberg K (eds.), *Modern Infectious Disease Epidemiology: Concepts, Methods, Mathematical Models and Public Health*. New York: Springer, 2010; (Chapter 17) pp. 291-308.
3. Witt CJ, Pinzon JE, Manibusan PA, Pavlin JA, Gibbons RV, Myers TE, Richards AL, Daszak P, **Luby SP**, Epstein JH, Hossain MJ, Gurley ES, Pulliam JRC, Zaye A, Abdel-Dayem MS, Collacicco-Mayhugh MG. Emerging and re-emerging diseases. In: Morain S & Budge A (eds.), *Environmental Tracking for Public Health Surveillance*. London: Taylor and Francis Group, 2013; (Chapter 5) pp. 187-226.
4. **Luby SP**. The Cultural Anthropological Contribution to Communicable Disease Epidemiology. In: Banwell C, Uligaszek S, Dixon J (eds.), *When Culture Impacts Health: Global Lessons for Effective Health Research*. Waltham, MA: Academic Press, Elsevier, 2013; (Chapter 5) pp. 43-52.

5. Arman S, Unicomb L, **Luby SP**. A qualitative exploration of factors affecting uptake of water treatment technology in rural Bangladesh. In: Banwell C, Uligaszek S, Dixon J (eds.), *When Culture Impacts Health: Global Lessons for Effective Health Research*. Waltham, MA: Academic Press, Elsevier, 2013; (Chapter 18) pp. 205-214.
6. Parveen S, Sultana R, **Luby SP**, Gurley ES. Anthropological approaches to outbreak investigations in Bangladesh. In: Banwell C, Uligaszek S, Dixon J (eds.), *When Culture Impacts Health: Global Lessons for Effective Health Research*. Waltham, MA: Academic Press, Elsevier, 2013; (Chapter 19) pp. 215-224.
7. Islam MSI, **Luby SP**, Gurley ES. Developing culturally appropriate interventions to prevent person-to-person transmission of Nipah Virus in Bangladesh: cultural epidemiology in action. In: Banwell C, Uligaszek S, Dixon J (eds.), *When Culture Impacts Health: Global Lessons for Effective Health Research*. Waltham, MA: Academic Press, Elsevier, 2013; (Chapter 28) pp. 329-337.
8. **Luby SP**. *Salmonella* Typhi and *Salmonella* Paratyphi. In: Motarjemi Y (ed.), *Encyclopedia of Food Safety*, Volume 1. Waltham, MA: Academic Press, Elsevier, 2014. (Bacteria) pp. 515-522.
9. **Luby SP**. Nipah Virus. In: Motarjemi Y (ed.), *Encyclopedia of Food Safety*, Volume 2. Waltham, MA: Academic Press, Elsevier, 2014; (Viruses) pp. 214-217.
10. **Luby SP**, Broder CC. Paramyxoviruses: Henipaviruses. In: Kaslow RA et al (eds.), *Viral Infections of Humans: Epidemiology and Control*. New York: Springer, 2014. doi: 10.1007/978-1-4899-7448-8_22.
11. **Luby SP**, Gurley ES. Epidemiology of Henipaviruses. In: Shapshak P et al (eds.), *Global Virology I - Identifying and Investigating Viral Diseases*. New York: Springer, 2015; (Chapter 4) pp. 55-71.
12. **Luby SP**, Nahar N, Gurley ES. Reducing the risk of foodborne transmission of Nipah virus. In: Jay-Russell M et al (eds.) *Food Safety Risks from Wildlife: Challenges in Agriculture, Conservation and Public Health*. New York: Springer, 2016; (Chapter 6) pp. 151-167.

Selected Invited Presentations

“A Timeline for Typhoid Elimination.” 11th International Conference on Typhoid and Other Invasive Salmonellosis. Hanoi, Vietnam. March 28, 2019.

“Nipah virus: Pandemic threats and countermeasures.” The American Society of Microbiology Biothreats 2019. Arlington, VA, USA. January 30, 2019.

“Thirsty Cities in the 21st Century: The Need for New Approaches.” American Society of Tropical Medicine and Hygiene Global Health pre-meeting course. New Orleans, LA, USA. October 28, 2018.

“Can global health efforts avert imminent human extinction?” 2018 Stanley O. Foster lecture. Emory University. Atlanta, GA, USA. March 19, 2018.

“Pandemic/Epidemic Potential of Nipah virus.” Nipah Research and Development Roadmap Consultation. Wellcome Trust, London, UK. March 1, 2018.

“Spectacular Growth of Megacities Requires New Approaches to Water & Sanitation for the Urban Poor.” National Academy of Medicine Annual Meeting. Washington, DC, USA. October 15, 2017.

“WASH + Nutrition Benefits Bangladesh: Initial Outcomes.” Experimental Biology 2017. Chicago, IL, USA. April 24, 2017.

“The cultural anthropological contribution to diarrheal disease prevention.” American Society of Tropical Medicine and Hygiene Annual meeting, Atlanta, GA, USA. November 14, 2016

“Can public health efforts avert imminent human extinction?” Richard V. Lee, MD Lectureship in Global Health. University at Buffalo, New York, NY, USA. September 9, 2016.

“The contribution of water sanitation and hygiene interventions to healthy child growth and interrupting enteric parasite transmission.” The 3rd Symposium on Surveillance Response System Leading to Tropical Diseases Elimination. Shanghai, China. June 16, 2016.

“Emerging viruses with special emphasis on the epidemiology and natural history of Nipah virus.” International Scientific Symposium, Institut Pasteur International Network. Paris, France. October 14, 2015.

“Evaluating the impact of new vaccine introduction in Bangladesh.” Expert Consultation on Measuring the Effectiveness and Impact of Japanese Encephalitis Vaccines. WHO, Geneva, Switzerland. May 27, 2015.

“WASH Benefits: Connecting the Environment to Enteropathy.” Gut Function Biomarkers Consortium. London, UK. January 29, 2015.

“Nipah virus epidemiology and pandemic risk.” Center for Biodefense and Emerging Infectious Diseases Infectious Disease & Immunity Colloquium. University of Texas Medical Branch in Galveston, Texas. September 9, 2014.

“Human Nipah infection in Bangladesh: Establishing meningoencephalitis surveillance for emerging pathogens.” ASM Biodefense and Emerging Diseases Research Meeting. January 29, 2014.

“Global crisis in water supply and quality: The need for innovation.” Water and Health Conference. Chapel Hill, NC, USA. October 16, 2013.

“Why highly polluting kilns are used to manufacture bricks in Bangladesh.” Brick Manufacturing and Public Health Stakeholders Dialogue. Dhaka, Bangladesh. October 1, 2013.

“Developing and evaluating interventions to reduce pandemic risk – The case of henipaviruses and influenza.” Institute of Medicine – Forum on Microbial Threats. Washington DC. September 25, 2013.

“Sanitation and child development.” Program in International and Community Nutrition Seminar. University of California, Davis. February 27, 2013.

“Repeated emergence of Nipah virus in Bangladesh via novel pathways: Lessons for at risk countries.” Prince Mahidol Award Conference. Bangkok, Thailand. January 31, 2013.

“Water management for a healthy Bangladesh: The need for multi-sector collaboration.” National Public Health Conference. Dhaka, Bangladesh. January 15, 2013.

“Global water shortages and health: Agenda for the coming decades.” McKinlay Oration for the Otago International Health Research Annual Conference. Dunedin, New Zealand. November 7, 2012.

“Household water treatment: A failed public health strategy?” Environmental Engineering Seminar. University of California, Berkeley. September 7, 2012.

“Nipah virus outbreaks in Bangladesh.” Asia-Pacific Congress of Medical Virology. Adelaide, South Australia. June 7, 2012.

“Nipah virus in Bangladesh.” Institute of Medicine/Forum on Microbial Threats. Washington DC, USA. December 13, 2011.

“Cholera: Interrupting transmission with environmental measures.” American Society of Tropical Medicine & Hygiene Conference. Atlanta, GA, USA. November 5, 2010.

“Epidemiology, surveillance and control of Nipah virus infections in Bangladesh.” WHO Joint Intercountry Workshop on Nipah, Hendra and Ebola-Reston viruses, Research and Public Health. Maroochydore, Queensland, Australia. October 13, 2010.

“Epidemiology and prevention of human Nipah virus infection.” Plenary presentation, The Fourth ASEAN Congress of Tropical Medicine and Parasitology. Singapore, June 2, 2010.

“Frontline of the Global Water Crisis: Efforts to Secure Safe Water in High Need Communities.” Keynote presentation, OU International WaTER Conference. Norman, Oklahoma, USA. October 27, 2009.

“What is known and not known about the benefits of hand washing promotion.” 3rd International Health and Hygiene Symposium. Beijing, China. August 12, 2009.

“Water and Health.” Water and Human Well Being Executive Session on Grand Challenges of the Sustainability Transition. Venice International University, San Servolo, Italy. July 20, 2009.

“Foodborne transmission of Nipah Virus in Bangladesh.” International Meeting on Emerging Diseases and Surveillance. Vienna, Austria. February 14, 2009.

“Nipah virus transmission in Bangladesh.” International Conference of Emerging Infectious Diseases. Atlanta, GA, USA. March 18, 2008.

“The role for hand washing in improving hygiene and health in low income countries.” Institute Pasteur Euroconference on Hygiene and Health. Paris, France. January 26, 2001.

“Injection Safety: The special role of immunization programs.” International Emerging Infectious Disease Conference. Atlanta, GA, USA. July 19, 2000.

“Assessing injection use and safety.” Safe Injection Global Network (SIGN) Initial Meeting. Geneva, Switzerland. October 14, 1999.

“Risks of blood transfusion in Karachi.” Plenary Session, National HIV Surveillance Conference. Karachi, Pakistan. December 14, 1995.

“A nosocomial outbreak of *Mycobacterium tuberculosis* from an unrecognized case.” American Lung Association. Tuberculosis and Respiratory Diseases Conference. Black Mountain, North Carolina, US. July 10, 1992.

Theses Supervision

1. Jehan I. “The role of interspousal communication in use of modern contraceptives in a middle income area of Karachi.” MSc Epidemiology, McGill University, 1994.
2. NoorAli R. “Does use of a government service depend on how far one lives from the health facility?” MSc Epidemiology, McGill University, 1994.
3. Quddus A. “Neonatal tetanus, mortality rates and risk factors, district Loralai, Balochistan.” MSc Epidemiology, Aga Khan University, 1998.
4. Hozhabri S. “Prevalence and predictors of malaria among febrile children attending the rural health centre of Jhangara, in Sindh, Pakistan.” MSc Epidemiology, Aga Khan University, 1999.
5. Siddiqui, Azfar A. “Risk of development of clinical tuberculosis among infected individuals identified by a single blood PCR test.” MSc Epidemiology, Aga Khan University, 1999.
6. Bari A. “Risk factors associated with serological status against hepatitis C virus infection: a hospital based case-control study in Islamabad-Rawalpindi, Pakistan.” MSc Epidemiology, Aga Khan University, 1999.
7. Raza MI. “Factors associated with sexually transmitted diseases among men attending STD clinics in Karachi, Pakistan.” MSc Epidemiology, Aga Khan University, 1999.
8. Laorakpong P. “Case control study to evaluate risk factors for typhoid fever in Egypt.” MPH, Emory University, 2001.
9. Raza H. “A case-control study of risk factors for hepatitis B virus infection among adults in Karachi.” Msc Epidemiology, Aga Khan University, 2001.
10. Tanaka G. “Burden of rotavirus gastroenteritis in children under 5 years of age in Bangladesh: A hospital-based surveillance.” MPH, Emory University, 2005.
11. Bhuiya F. “Enteric disease and consumption of street-vended food among children under five years old in Kamalapur, Bangladesh.” MPH, Emory University, 2006.
12. Alamgir NI. “Coping strategies for financial burdens in families with ARI.” MPH, BRAC University, 2007.

13. Chisolm KV. "Predictors of care-seeking behavior for respiratory illness in children under age five in Dhaka, Bangladesh." MPH, Emory University, 2007.
14. Nygren B. "Household sanitation characteristics as predictors of diarrhea in children in Bangladesh." MPH, Emory University, 2008.
15. Najnin N. "Understanding health care seeking behaviour of children under five years of age with fever in urban Dhaka, Bangladesh." MPH, University of Melbourne, 2008.
16. Rahman J. "Poverty and Diarrheal Disease in Rural Bangladesh: An evaluation from the SHEWA-B Intervention, ICDDR,B/UNICEF." MPH, Emory University, 2009.
17. Titu AMN. "The economic burden of influenza like illness in Bangladesh: A cost of illness study from household perspective in Mirpur, Dhaka." MPH, BRAC University, 2010.
18. Khanom GA. "Knowledge on respiratory infection and acceptability of the respiratory hygiene intervention in an urban slum." MPH, BRAC University, 2010.
19. Chowdhury M. "Postpartum hospital stay in a tertiary care hospital in Bangladesh: Factors responsible." MPH, BRAC University, 2011.
20. Singer TG. "Potential effects of increased global temperatures on neurological development factors in children under 5 years in east Africa: a modeling study." MSc, Stanford (Emmett Interdisciplinary Program in Environment and Resources), 2015.
21. Nahar N. "A behavior change communication intervention trial to reduce the risk of Nipah virus spillover in Bangladesh." PhD, Swiss Tropical and Public Health Institute, 2017.
22. Bagge W. "The landscape epidemiology of zoonotic diseases: Rodent-borne Bartonella and livestock anthrax." PhD, Stanford (Emmett Interdisciplinary Program in Environment and Resources), 2017.
23. Arthur R. "Epidemics and adaptive behavior as a coupled human natural system: Trust and response to the 2014-15 Ebola epidemic in Liberia" PhD, Stanford (Emmett Interdisciplinary Program in Environment and Resources), 2019.
24. Forsyth J. "Root causes of lead exposure in rural Bangladesh." PhD, Stanford (Emmett Interdisciplinary Program in Environment and Resources), 2019.
25. Kwong L. "Elucidating pathways of fecal exposure: Evidence from young children in rural Bangladesh." Stanford (Civil and Environmental Engineering), 2019.
26. Grembi J. "Enteric pathogens: Measurement, metrics and mitigation" Stanford (Civil and Environmental Engineering), 2019.

External Thesis Review Committees

Hutin Y. “Evidence and information for national injection safety policies.” PhD Epidemiology, Swiss Tropical Institute, 2003.

Kermode MA. “Safer injections, fewer infections: management of needles and sharps and occupational blood exposure in rural north Indian health settings.” PhD Epidemiology, Deakin University (Australia), 2004.

Danquah L. “Measuring hand washing behaviour in low income settings: methodological and validity issues.” PhD School of Social Sciences, University of Southampton, Southampton (UK), 2010.

Saha D. “Acute diarrhea in children in rural Gambia: Knowledge, attitude and practice, etiology, risk factors and consequences among children less than 5 years of age.” PhD, University of Otago (New Zealand), 2013.

Clayton BA. “Nipah viruses from Malaysia and Bangladesh: comparisons of viral infection and shedding, and investigation of transmission in the ferret model.” PhD Veterinary Science, The University of Melbourne (Australia), 2014.

Editorial Roles

Editor, *Health and Science Bulletin*, 2004 – 2012

Section Editor, Emerging Infections, *Journal of Health, Population and Nutrition* (2005 – 2012)

Section Editor, Water and Sanitation, *Journal of Health, Population and Nutrition* (2007 – 2014)

Review Editor, EcoHealth, 2013 – current

International Editorial Board, *Journal of Water, Sanitation and Hygiene for Development* (2011 – current)
3IE, Expert Roster

Journal Reviewer (since 2015)

Lancet, *British Medical Journal*, *Proceedings of the National Academy of Sciences*, *Emerging Infectious Diseases*, *JAMA*, *PLoS Medicine*, *New England Journal of Medicine*, *Clinical Infectious Diseases*, *Bulletin of the World Health Organization*, *Lancet Infectious Diseases*, *Lancet Global Health*, *American Journal of Tropical Medicine and Hygiene*, *Epidemiology and Infection*, *Vaccine*, *Tropical Medicine and International Health*, *Environmental Science & Technology*, *PLoS One*, *BMJ Open*, *Social Science and Medicine*, *Health Policy and Planning*, *The Pediatric Infectious Disease Journal*, *PLoS Neglected Tropical Diseases*, *Water Research*, *Journal of Water and Health*, *American Journal of Infection Control*, *International Journal of Infectious Diseases*, *Journal of Environmental Management*, *Review of Environmental Health*, *Preventive Medicine*, *Journal of Water Sanitation and Hygiene for Development*, *International Journal of Environmental Health Research*, *Journal of Environmental Research and Public Health*, *BMC Public Health*

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