

Stephen P. Luby

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## Education

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

University of Texas -- Southwestern Medical School at Dallas  
Medical Doctor 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)
- Endowed Lucy Becker Professor of Medicine (since 2024)
- Senior Fellow, Woods Institute for the Environment
- Senior Fellow, Freeman Spogli Institute for International Studies
- Director, Center for Human and Planetary Health (since 2024)
- Director of Research, Center for Innovation and Global Health
- Director Stanford Existential Risks Initiative (since 2019)
- Courtesy Appointment, Department of Epidemiology and Population Health

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:

- 2023 Top 10 Clinical Research Achievement Award by the Clinical Research Forum for “Impact of community masking on COVID-19: A cluster-randomized trial in Bangladesh”
- Shepard Award (Centers for Disease Control and Prevention)
  - Best Paper in the Prevention Category, 2015 (co-author) (Estivariz 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:

- o 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.)
- o 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.)
- o 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.)
- o 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.)

#### Teaching awards

- Walter J Gores Award for Excellence in Teaching 2024. Stanford's highest award for excellence in teaching.
- 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, 2019, 2022 and 2023.
- 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.

Planetary Health Alliance Steering Committee 2020 - 2023

The American Society of Tropical Medicine and Hygiene, Member

Coalition Against Typhoid, Chair

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 >50 research projects with a total funding >\$80 million.

## **Current Projects**

1. 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; \$548,469 (Stanford budget; >\$20 million total); 2017 - 2025  
 Investigators: Brown R, Wong T, Leder K, Luby SP, Chown S  
 Role: Co-Principal Investigator – Oversee the health outcome evaluation
2. Effect of household concrete floors on child health  
 Goal: Measure child health outcomes of installing concrete floors in rural Bangladesh  
 Funder: National Institutes of Health / NICHD (\$3,400,000), 2022-2027  
 Investigators: Benjamin-Chung J, Luby S

Role: Co-Investigator

3. Reducing spread of Covid-19 in households using low cost box fans  
Goal: Evaluate the effectiveness of box fans on secondary transmission of Covid-19  
Funder: Stanford Center for Innovation in Global Health; \$40,000; 2022 - 2023  
Investigators: Karan A, Hildemann L, Luby SP  
Role: Co-investigator
4. Solving Opportunities for Spillover  
Goal: Better understand and prevent spillovers of bat borne viruses into intermediate hosts and humans  
Funder: National Institutes of Health / NIAID (\$3,356,000), 2022-2027  
Investigators: Gurley E, Luby S  
Role: Co-Investigator
5. Reducing lead exposure in South Asia  
Goal: Develop and pilot incentive-compatible solutions to reduce lead exposure  
Funder: Stanford Center on Global Poverty and Development; \$1,800,000; 2019 - 2026  
Investigators: Luby S, Fendorf S, Hildemann L, Fukuyama F.  
Role: Principal Investigator
6. Heavy metal pollution and maternal health in Bangladesh  
Goal: Identify risk factors for stillbirths  
Funder: Stanford Woods Institute; \$200,000; 2021 - 2026  
Investigators: Luby S, Forsyth J  
Role: Principal Investigator
7. Scaling Clean Air and Better Health in Bangladesh  
Goal: Brick Kiln pollution mitigation  
Funder: King Climate Action Initiative; \$250,000; 2023 - 2026  
Investigators: Luby SP, Brooks NR  
Role: Principal Investigator
8. Converting waste methane to a scalable business opportunity that advances sustainable food security  
Goal: Build and operate a continuous methanotrophic reactor to assess the technical and economic feasibility of converting waste methane to aquaculture feed  
Funder: Stanford Sustainability Accelerator; \$500,000; 2025 - 2027  
Investigators: Luby S, Jackson R. Naylor R.  
Role: Principal Investigator
9. Project Unleaded  
Goal: Address critical gaps in lead source identification and analysis in several high-priority countries, with the goal of enabling and guiding effective mitigation  
Funder: Coefficient Giving; \$10,444,880; 2025 - 2028  
Investigators: Luby S, Forsyth J.

Role: Principal Investigator

10. Using Far-UVC to prevent surgical site infections in Bangladeshi operating rooms  
Goal: Conduct a randomized controlled trial to assess the impact of Far-UVC irradiation on a human health outcome—surgical site infections.  
Funder: Stanford Center for Innovation and Global Health; \$50,000, 2026- 2028  
Blueprint Biosecurity; \$102,000, 2026-2028  
Investigators: Luby S, Higerd-Rusli G, Hoffman S.  
Role: Principal Investigator
11. Global epidemiology of infectious diseases  
Goal: Training Grant  
Funder: National Institutes of Health; \$2.8 million; 2003 - 2027  
Investigators: Luby SP, LaBeaud, AD  
Role: Project Director

## **Bibliography**

Published work includes >600 original peer reviewed manuscripts including

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

Google Scholar:

- Hirsch index = 114
- > 52,000 citations

## In Press

## Original Scientific Publications

1. Tamrakar D, Naga SR, Jung E, Shrestha B, Bista Roka P, Pokharel RS, Shah SB, Bajracharya AT, Mahadup SK, Katuwal N, Doyle K, Seidman JC, Carter AS, **Luby SP**, Bogoch II, Aiemjoy K, Garrett DO, Shrestha R, Andrews JR. Impact of the COVID-19 pandemic and typhoid conjugate vaccine introduction on typhoid fever in Nepal. *PLoS Negl Trop Dis*. 2026 Jan 21;20(1):e0013242.
2. Duque MP, Paul KK, Sultana R, Ribeiro Dos Santos G, O'Driscoll M, Naser AM, Rahman M, Alam MS, Al-Amin HM, Rahman MZ, Hossain ME, Paul RC, Krainski E, **Luby SP**, Cauchemez S, Vanhomwegen J, Gurley ES, Salje H. National burden of an optimal vaccine policy for Japanese encephalitis virus in Bangladesh: a sero prevalence and modeling study. *Lancet Infect Dis*. Apr;26(4):429-438.
3. Niven CG, Islam M, Nguyen A, Mertens A, Pickering AJ, Kwong LH, Alam M, Sen D, Islam S, Rahman M, Unicomb L, Hubbard AE, **Luby SP**, Grembi JA, Colford JM Jr, Arnold BF,

- Benjamin-Chung J, Ercumen A. Rainfall and temperature influence effectiveness of on-site sanitation intervention against E. coli contamination in Bangladeshi households. *Int J Hyg Environ Health*. 2026 Mar;272:114731.
4. Van Wyk H, Brouwer AF, Contreras J, Rahman M, Islam M, Pickering AJ, Arnold BF, **Luby SP**, Colford JM, Freeman M, Ercumen A, Eisenberg JNS. Examining the effect of neighborhood sanitation coverage on childhood diarrheal disease in rural Bangladesh. *Int J Hyg Environ Health*. 2026 Mar;272:114732
  5. Aquib WR, Rahman DI, Jahan FA, Chowdhury NN, Bosu S, Ema FA, Sarker S, Sakib MN, Abdulla F, Farzin A, Dutta P, Islam A, Bin Mahmood SJ, Choudhury SS, Siddika A, Rahman MM, Alam MR, Chowdhury M, Hossain MS, Sarkar T, Chowdhury KIA, Hossain ME, Sultana S, Alam AN, Rahman M, Islam A, Klena JD, Spiropoulou C, Rahman MZ, Epstein JH, Banu S, Gurley ES, **Luby SP**, Montgomery JM, Shirin T, Satter SM. Post-mortem surveillance: an innovative strategy to detect and prevent spread of Nipah virus infection in humans. *Emerg Microbes Infect*. 2026 Dec; 15(1):2613510. doi: 10.1080/22221751.2026.2613510
  6. Tofail F, Pitchik HO, Islam M, Khan R, Shoab AK, Akter F, Aktar S, Huda TMN, Rahman M, Winch PJ, **Luby SP**, Fernald LCH. Effects of early water, sanitation, handwashing, and nutrition interventions on child development at school age: a follow-on study of a cluster-randomized trial in rural Bangladesh. *PLoS Med*. 2025 Dec 16; 22(12):e1004793. doi: 10.1371/journal.pmed.100479
  7. Nahar N, Parveen S, Gurley ES, Ghosh PK, Jabeen I, Haidar MR, Jahan F, Munim MS, Ali MW, Shirin T, Banu S, Chowdhury AI, Alam A, Dawes BE, Fusco J, Monath TP, Heppner G, **Luby SP**. Community interpretation of a consent form and willingness to participate in a Nipah vaccine trial in Bangladesh. *Vaccine*. 2025 Dec 5; 68:127953. doi: 10.1016/j.vaccine.2025.127953
  8. Chen B, Mertens AN, Lin CH, Tan ST, Jamshed F, Figueroa D, Hemlock C, Butzin-Dozier Z, Fernald LC, Stewart CP, Hubbard AE, Rahman MZ, Ali S, Arnold BF, Dhabhar FS, Granger DA, Rahman M, **Luby SP**, Colford JM Jr, Lin A. Associations Between Micronutrient Status, Hormones, and Immune Status During Pregnancy and Child Growth in Rural Bangladesh: A Prospective Cohort Study. *Curr Dev Nutr*. 2025 Nov 8; 9(12):107596. doi: 10.1016/j.cdnut.2025.107596
  9. Satter SM, Rahman DI, Sultana S, Rahman MM, Aquib WR, Nazneen A, Farzin A, Chowdhury KIA, Sarkar T, Ema FA, Choudhury SS, Siddika A, Alam MR, Abdulla F, Ghosh PK, Qayum MO, Sarker MFR, Nasif MAO, Sen B, Chowdhury M, Hossain MS, Rahman M, Alam AN, Hossain ME, Shoemaker T, Spiropoulou C, Gurley ES, **Luby SP**, Klena JD, Banu S, Rahman MZ, Montgomery JM, Shirin T. Epidemiology, clinical characteristics, and genetic diversity of Nipah virus strains from Bangladesh: 2016-2023. *Int J Infect Dis*. 2025 Oct; 159:108010. doi: 10.1016/j.ijid.2025.108010
  10. Wu GS, Hossain H, Amin MB, Parveen S, Islam MA, Sraboni AS, Pervez AFM, Zeba D, Gurley ES, **Luby S**, Styczynski A. Perinatal colonization with extended-spectrum beta-lactamase-producing and carbapenem-resistant gram-negative bacteria among home births in Bangladesh. *PLoS One*. 2025 Sep 19; 20(9):e0325404. doi: 10.1371/journal.pone.0325404
  11. Nahar N, Parveen S, Gurley ES, Ghosh PK, Jabeen I, Haidar MR, Jahan F, Munim MS, Chanda KF, Ali MW, Akhtar Z, Shirin T, Banu S, Chowdhury AI, Alam A, Dawes BE, Fusco J, Monath TP,

- Heppner G, **Luby SP**. Community willingness to participate in a Nipah vaccine trial in Bangladesh. *Vaccine*. 2025 Aug 30; 62:127578. doi: 10.1016/j.vaccine.2025.127578
12. Tazin S, Islam M, Pickering AJ, Kwong LH, Mertens A, Niven C, Arnold BF, Hubbard AE, Alam M, Sen D, Islam S, Rahman M, Unicomb L, **Luby SP**, Colford JM, Benjamin-Chung J, Ercumen A. Associations between floor material and E. coli contamination in rural Bangladeshi households. *Int J Hyg Environ Health*. 2025 Aug; 269:114641. doi: 10.1016/j.ijheh.2025.114641
  13. Ho GG, Achando BS, Ali S, Hemlock C, Pitchik HO, Stewart CP, Tofail F, Rahman MZ, Alauddin M, Rao G, Dentz HN, Buleti JP, Nekesa C, Arnold CD, Famida SL, Hossen MS, Mutsuddi P, Akther S, Grembi JA, Tan ST, Alauddin ST, Meerkerk T, Wolfe MK, Cheruiyot P, Njenga SM, Shoab AK, Rahman M, Unicomb L, Arnold BF, Kariger P, Hubbard AE, Colford JM Jr, Pickering AJ, Null C, **Luby SP**, Fernald LCH, Mertens AN, Lin A. Biomarkers of environmental enteric dysfunction and neurodevelopmental outcomes among children in rural Bangladesh and Kenya: a prospective cohort study. *Am J Clin Nutr*. 2025 Aug; 122(2):474-487. doi: 10.1016/j.ajcnut.2025.05.034.
  14. Sultana J, Pitchik HO, Shoab AK, Huda TMN, Hasan R, Akter F, Jahir T, Khobair Hossain M, Das JB, Amin MR, Yeasmin F, Khan R, Forsyth JE, Kwong LH, Rashid J, Ashrafee S, Rahman M, Mridha MK, Tofail F, Winch PJ, **Luby SP**, Fernald LCH. Evaluation of a multicomponent child development intervention delivered through the government health system: a feasibility study. *BMJ Glob Health*. 2025 Jul 20; 10(7):e018736. doi: 10.1136/bmjgh-2024-018736
  15. Paul RC, Gidding HF, Nazneen A, Banik KC, Sumon SA, Paul KK, Akram A, Uzzaman MS, Tejada-Strop A, Kamili S, **Luby SP**, Hayen A, Gurley ES. Population-based estimates of hepatitis E virus associated mortality in Bangladesh. *J Infect Dis*. 2025 Jul 11; 231(6):e1129-e1137. doi: 10.1093/infdis/jiaf134
  16. Barros Verruck J, Moreira Puga MA, de Oliveira RD, Vieira da Silva P, Charu V, Hedlin H, Lu D, Zhang A, Ritter V, Shaw B, Rosser JI, Seidman JC, Carter AS, Qamar F, **Luby S**, Garret D, Croda J. Antispikes IgG antibody decay after immunisation with fractional versus full booster doses of COVID-19 vaccines: a 6-month longitudinal analysis of the FRACT-COV trial in Brazil. *BMJ Public Health*. 2025 Jul 5; 3(2):e002331. doi: 10.1136/bmjph-2024-002331
  17. Goldberg L, **Luby S**, Sayiara Shuchi N, Sen T, Hossen N, Parodi GW, Jensen E, Ardoin NM, Rahman M, Jahan F. Adolescent psychological health, temporal discounting, and climate distress under increased flood exposure in Bangladesh: a mixed-methods cross-sectional study. *Lancet Planet Health*. 2025 Jul; 9(7):101273. doi: 10.1016/j.lanplh.2025.05.003
  18. Brooks N, Biswas D, Maithel S, Miller G, Mahajan A, Uddin MR, Ahmed S, Mahzab M, Rahman M, **Luby SP**. Reducing emissions and air pollution from informal brick kilns: Evidence from Bangladesh. *Science*. 2025 May 8; 388(6747):eadr7394. doi: 10.1126/science.adr7394
  19. Strong NI, Andraka JT, Woo SG, Abbadi SHE, Lewis AJ, Tang SKY, **Luby SP**, Criddle CS. Environmental monitoring for Ascaris egg remediation: a critical review. *Environ Sci Pollut Res Int*. 2025 Apr 2; 32(17):10688-10704. doi: 10.1007/s11356-025-36343-1
  20. Munira SJ, Naga SR, Dehraj IF, Doyle K, Kanon N, Yousafzai MT, Tamrakar D, Ali AP, Jui AB, Carter AS, Das DC, Dawani S, Iqbal K, Irfan S, Islam MS, Memon, MA, Khan T, Nahar S, Rahman

- MH, Saddal NS, Seidman JC, Shrestha R, Susmita H, Andrews HR, **Luby SP**, Garrett DO, Qamar FN, Saha SK, Saha S. Changes in enteric fever trends during the COVID-19 pandemic from the Surveillance for Enteric Fever in Asia Project: a cross-sectional study. *The Lancet Reg Health Southeast Asia*. 2025 Apr; 35:100562. doi: 10.1016/j.lansea.2025.100562
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  22. Figueroa D, Al Mamun MM, Jung DK, Li G, Tan ST, Jamshed F, Butzin-Dozier Z, Mertens AN, Lin J, Pitchik HO, Parvin K, Silvera A, Fernald LCH, Arnold BF, Ali S, Shoab AK, Famida SL, Akther S, Rahman MZ, Hossen MS, Mutsuddi P, Rahman M, Unicomb L, Kariger P, Stewart CP, Hubbard AE, Benjamin-Chung J, Dhabhar FS, **Luby SP**, Colford JM Jr, Naved RT, Lin A. Maternal experience of intimate partner violence, maternal depression, and parental stress are not associated with child telomere length in Bangladesh. *Sci Rep*. 2025 Mar 12; 15(1):8499. doi: 10.1038/s41598-025-90505-2
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*Perspect.* 2024 Dec; 132(12):127003. doi: 10.1289/EHP15200

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2. **Luby S**. Rashid S. Theories of Change in Global Health. Oxford University Press. 2026.

## Book 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**, Faruqe 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.
13. **Luby SP.** Nipah Virus. Reference Module in Food Sciences. Elsevier, 2023.
14. Rahman M, Rimi NA, Sultana R. Homaira N. Epstein JH, **Luby SP.** Nipah outbreak investigation in Bangladesh, 2007: A case of One Health partnership and intersectoral coordination. Transforming global health partnerships: Critical reflections and visions of equity at the research, practice interface. 2024, pp. 209-222.

### **Selected Invited Presentations**

“Delicious, Nutritious, Sustainable Food” Food is Life, Food is Health Summit. Napa, California May 7, 2026.

“Uniting to Advance Climate Solutions” Global Climate Solution Summit. San Francisco. April 25, 2025.

“Nipah Spillover and Intervention” Ecology of Emerging Infectious Disease meeting. June 22, 2024.

“Water quality and child mortality.” USAID. January 17, 2023.

“Climate change as a driver of waterborne disease” World Water Week, Stockholm, August 22, 2023

“Conceptual and practical barriers to integrating concerns with human health and nature” Integrating Public and Ecosystem Health Systems to Foster Resilience: Identifying Research to Bridge the Knowledge-To-Action Gap. National Academies Workshop. Washington DC. September 19, 2022

“Water quality and child mortality.” Center for Global Development. February 16, 2022.

“Preventing human extinction as a public health priority.” University of Louisville. April 20, 2022.

“Improving water and sanitation services in cities with endemic typhoid transmission.” 12th International Conference on Typhoid & Other Invasive Salmonellosis, December 6, 2021

“RISE: Assessment of the Environment and Human Health Impact.” American Society of Tropical Medicine and Hygiene. Virtual Conference. November 19, 2020.

“Environmental Surveillance for Typhoid”. World Water Week at Home. Virtual Conference. August 26, 2020.

“A Timeline for Typhoid Elimination.” 11<sup>th</sup> 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 3<sup>rd</sup> 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.” 3<sup>rd</sup> 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

### Masters

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.

#### **PhD**

1. Nazmun Nahar. "A behavior change communication intervention trial to reduce the risk of Nipah virus spillover in Bangladesh." PhD, Swiss Tropical and Public Health Institute, 2017.
2. Whitney Bagge. "The landscape epidemiology of zoonotic diseases: Rodent-borne Bartonella and livestock anthrax." PhD, Stanford (Emmett Interdisciplinary Program in Environment and Resources), 2017.
3. Ronan Arthur. "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.
4. Jenna Forsyth. "Root causes of lead exposure in rural Bangladesh." PhD, Stanford (Emmett Interdisciplinary Program in Environment and Resources), 2019.
5. Laura Kwong. "Elucidating pathways of fecal exposure: Evidence from young children in rural Bangladesh." PhD, Stanford Civil and Environmental Engineering), 2019.
6. Jessica Grembi. "Enteric pathogens: Measurement, metrics and mitigation" PhD, Stanford Civil and Environmental Engineering, 2019.
7. Nina Brooks. "Global health and the environment: Studies on air pollution and reproductive health policies" PhD, Stanford Emmett Interdisciplinary Program in Environment and Resources, 2020.
8. Allison Sherris. "Environmental contaminants and health in early life: Studies on air pollution and drinking water quality" PhD, Stanford Emmett Interdisciplinary Program in Environment and Resources, 2021.

9. Sahar El Abbadi. “Engineering the dark food chain: The role of methanotrophic bacteria in food production and climate change mitigation. PhD, Stanford Civil and Environmental Engineering, 2021.
10. Latifah Hamzah. “Waste monitoring and management for improved water quality and soil health” PhD, Stanford Civil and Environmental Engineering, 2024.
11. Alyson Singleton. Global change, local risk: How development shapes infectious disease dynamics, PhD, Stanford Emmett Interdisciplinary Program in Environment and Resources, 2026.

### **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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