

Short presentation

I have recently come back to focus on research (Cholera) after years in teaching and institutional development. I am currently heading the disaster and environmental health research group at the section of Global health in the department of Public health. Through my previous position as Director of the Copenhagen Center for Disaster Research, COPE, I have gained a large network and am connected with many disaster researchers working at University of Copenhagen. Before COPE was established, I was Head of Studies for the Master of Disaster Management programme (MDMa), which I co-created in 2008. The interdisciplinary connections I have made through my work with MDMa and COPE now manifest themselves in the variety of my current research interests.

Current research:

Combating Cholera caused by Climate Change in Bangladesh (C5)

A multidisciplinary DANIDA-funded study examining the risk and effects of climate-induced cholera on water stress and household hygiene in low-income area Tongi, Bangladesh.

Changing Disasters

An interdisciplinary research project embracing all six university faculties. The project investigates how modern societies interact with disasters.

Interdisciplinary Learning

Combining interdisciplinary research based in COPE with interdisciplinary teaching at MDMa.

Primary research

My core area is Environmental Hygiene; mainly water and sanitation, as well as the transmission of hygiene-related diseases (such as cholera and other diarrheal diseases) during disasterous events and in developing countries.

Primary teaching

Master of Disaster Management core module

Water and Sanitation in Emergency course

International Health course, Public health science

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Publications

Developing a forecasting model for cholera incidence in Dhaka megacity through time series climate data

Daisy, S. S., Saiful Islam, A. K. M., Akanda, A. S., Faruque, A. S. G., Amin, N. & Jensen, Peter Kjær Mackie, 2020, In : Journal of Water and Health. 18, 2, p. 207-223 17 p.

Individual and household exposures associated with cholera transmission in case-control studies: a systematic review

Phelps, M. D., Simonsen, L. & Jensen, Peter Kjær Mackie, 2019, In : Tropical Medicine & International Health. 24, 10, p. 1151-1168 18 p.

The Cholera Phone: Diarrheal Disease Surveillance by Mobile Phone in Bangladesh

sengupta, L., Tamason, C. C., Sultana, R., Tulsiani, S., Phelps, M., Gurley, E. S. & Jensen, Peter Kjær Mackie, 2019, In : American Journal of Tropical Medicine and Hygiene. 100, 3, p. 510-516 6 p.

Water usage, hygiene and diarrhea in low-income urban communities - a mixed method prospective longitudinal study

Sultana, Rebeca, Tamason, C. C., Carstensen, L. S., Ferdous, J., Hossain, Z. Z., Begum, A. & Jensen, Peter Kjær Mackie, 2019, In : MethodsX. 6, p. 2822-2837 16 p.

A Comparative Analysis of *Vibrio cholerae* Contamination in Point-of-Drinking and Source Water in a Low-Income Urban Community, Bangladesh

Ferdous, J., Sultana, R., Rashid, R. B., Tasnimuzzaman, M., Nordland, Andreas, Begum, A. & Jensen, Peter Kjær Mackie, 2018, In : Frontiers in Microbiology. 9, 9 p., 489.

Can *E. coli* fly? The role of flies as transmitters of *Escherichia coli* to food in an urban slum in Bangladesh

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Comparative genomics of *Vibrio cholerae* O1 isolated from cholera patients in Bangladesh

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Exploring Droughts and Floods and Their Association with Cholera Outbreaks in Sub-Saharan Africa: A Register-Based Ecological Study from 1990 to 2010

Rieckmann, Andreas, Tamason, C. C., Gurley, E. S., Rod, Naja Hulvej & Jensen, Peter Kjær Mackie, 2018, In : American Journal of Tropical Medicine and Hygiene. 98, 5, p. 1269-1274 6 p.

Fecal contamination hotspots in low-income households in Bangladesh

Hossain, Z. Z., Farhana, I., Sultana, R., Begum, A. & Jensen, Peter Kjær Mackie, 2018, p. 55. 1 p.

Quantitative analysis of nucleic acid extraction methods for *Vibrio cholerae* using real-time PCR and conventional PCR

Hossain, Z. Z., Ferdous, J., Tulsiani, S., Jensen, Peter Kjær Mackie & Begum, A., 2018, In : Mymensingh Medical Journal. 27, 2, p. 327-335 9 p.

Transmission and Toxigenic Potential of *Vibrio cholerae* in Hilsha Fish (*Tenualosa ilisha*) for Human Consumption in Bangladesh

Hossain, Z. Z., Farhana, I., Tulsiani, S. M., Begum, A. & Jensen, Peter Kjær Mackie, 2018, In : Frontiers in Microbiology. 9, 13 p., 222.

The importance of thinking beyond the water-supply in cholera epidemics: A historical urban case-study

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Diversity of Antibiotic Resistant Diarrheagenic *Escherichia coli* of Phylogroup B1 Isolated from Communal Source Water and Household Drinking Water

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Singular cholera epidemics in 19th-century Denmark: Investigating patterns of transmission with historical source material

Perner, M. L., Phelps, M. D., Ingholt, M. M., Jensen, Peter Kjær Mackie & Simonsen, L., May 2017. 1 p.

Can Cholera Fly? A study of fly transmitted *Vibrio Cholera* to food in a slum area in Bangladesh

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Survival of *Vibrio cholerae* O1 on fomites

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Molecular Analysis and Toxigenic Potential of *Vibrio cholerae* Isolated from Hilsha fish (*Tenualosa ilisha*), Bangladesh

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Ferdous, J., Rashid, R. B., Tulsiani, S., Jensen, Peter Kjær Mackie & Begum, A., Jun 2016. 1 p.

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