

## Dr Kishor Kumar Paul

M: 470 664 054 | E: Kpaul@kirby.unsw.edu.au | LinkedIn: [linkedin.com/in/kishorpaul](https://www.linkedin.com/in/kishorpaul)

### CAREER PROFILE

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- SCIENTIA PhD student researching impact of climate change on dengue fever
- Analysed large, complex health dataset using R and STATA
- Contributed in development of more than 10 research protocols
- Authored 14 published manuscripts, four as first author in highly reputed journals
- Supervised a team of medical technicians and field data collectors

### EDUCATION

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**PhD (Epidemiology)** Jun 2019 - expected May 2023  
**UNSW Sydney**

- Awarded SCIENTIA scholarship to conduct graduate research

**Master of Public Health (Epidemiology)** Jul 2012 - Jan 2014  
**National Institute of Preventive and Social Medicine**

- CGPA 3.75 on a scale of 4.00

**Bachelor of Medicine and Surgery (MBBS)** Jul 2004 - Jun 2009  
**Dhaka Medical College**

- Clinical training in Medicine, Surgery, Gynaecology and Obstetrics

### RELEVANT EXPERIENCE

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**Graduate Student** Jun 2019 - Current  
**Kirby Institute, UNSW Sydney, Australia**

- Developed research proposal to study impact of climate change on dengue fever
- Adapted global climate model output for 21<sup>st</sup> century to estimate dengue epidemic potential
- Developed preliminary dengue transmission model with time varying climate dependent parameters

**Senior Research Investigator** Aug 2017 - May 2019  
**icddr,b (International Centre for Diarrhoeal Disease Research, Bangladesh)**

- Written two grant proposals and two research protocols on improving TB care and increasing TB treatment adherence
- Prepared narrative and quantitative reports for submission to USAID, the GFATM, Stop TB Partnership, US CDC, and National TB Control Program
- Linked and analysed more than 100,000 patient data seeking TB care
- Wrote proposal to investigate magnitude of chikungunya outbreak in Dhaka and led field implementation
- Presented study findings at international conference, donor meeting, and stakeholder meeting
- Supervised junior researcher and a team of medical technicians and field data collectors
- Published three manuscripts, one as first author, another three are under development
- Liaised with a number of stakeholders including donors, government officials, other research organizations and service providers

**Research Investigator**

Aug 2013 - Jul 2017

**icddr,b (International Centre for Diarrhoeal Disease Research, Bangladesh)**

- Developed of two research protocols and data analysis plans on national seroprevalence studies
- Supervised community-based data and sample collection process in 70 communities across 34 districts
- Managed surveillance of acute meningitis encephalitis syndrome in four tertiary care hospitals
- Streamlined online data collection process
- Linked, cleaned, and conducted statistical analysis of data collected from more than 10,000 individuals
- Presented findings at international conference and stakeholder meetings
- Published nine manuscripts, two as first author

**Research Fellow**

Oct 2011 - Jun 2013

**icddr,b (International Centre for Diarrhoeal Disease Research, Bangladesh)**

- Contributed to development of one protocol to estimate seroprevalence and incidence of dengue in capital city
- Supervised two rounds of data and sample collection by field assistants in 12 out of 90 wards in Dhaka city
- Linked, cleaned, and analysed data collected from more than 3,000 individuals
- Presented findings at international conference
- Published two papers, one as first author

**ADDITIONAL EXPERIENCE**

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**Medical Officer**

Mar 2011 - Sep 2011

**National Heart Foundation Hospital and Research Institute**

- Managed patients attending at emergency department with cardiac problems
- Contributed as a member of medical team in treatment of admitted inpatient
- Assisted doing reperfusion procedures and cardiac CATHLAB

**Intern Doctor**

Dec 2009 - Dec 2010

**Dhaka Medical College Hospital**

- Managed patients admitted in different speciality and sub-speciality

**EXTRACURRICULAR INVOLVEMENT**

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**Organising secretary**

Dec 2009 - Dec 2010

**Intern Doctors' Association, 2009-10**

- Represented about 80 intern doctors at different hospital committees
- Arranged educational tour for intern doctors

**TECHNICAL SKILLS**

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**Programming/statistics** – R, STATA, SPSS**GIS software** – ArcGIS, QGIS

## AWARDS

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### 1<sup>st</sup> Place in Poster Competition

2014

Epidemiological Association of Bangladesh (EPAB) Scientific Seminar and Annual General Meeting 2014

### SCIENTIA PhD scholarship

2019

UNSW Sydney

## PUBLICATIONS

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- **Paul KK**, Sazzad HMS, Rahman M, *et al.* Hospital-based surveillance for Japanese encephalitis in Bangladesh, 2007–2016: Implications for introduction of immunization. *Int J Infect Dis.* 2020; (<https://doi.org/10.1016/j.ijid.2020.07.026>)
- **Paul KK**, Salje H, Rahman MW, *et al.* Comparing insights from clinic-based versus community-based outbreak investigations: a case study of chikungunya in Bangladesh. *Int J Infect Dis.* 2020; (<https://doi.org/10.1016/j.ijid.2020.05.111>)
- **Paul KK**, Dhar-Chowdhury P, Haque CE, *et al.* Risk factors for the presence of dengue vector mosquitoes, and determinants of their prevalence and larval site selection in Dhaka, Bangladesh. *PLoS One.* 2018;13(6):e0199457.
- **Paul KK**, Alkabab YMA, Rahman MM, *et al.* A public-private model to scale up diabetes mellitus screening among people accessing tuberculosis diagnostics in Dhaka, Bangladesh. *Int J Infect Dis.* 2020;92:56-61.
- Al-Amin HM, Johora FT, Irish SR, *et al.* Insecticide resistance status of *Aedes aegypti* in Bangladesh. *Parasit Vectors.* 2020;13(1):622
- Salje H, **Paul KK**, Paul R, *et al.* Nationally representative serostudy of dengue in Bangladesh allows generalizable disease burden estimates. *Elife.* 2019;8.
- Salje H, Lessler J, **Paul KK**, *et al.* How social structures, space, and behaviors shape the spread of infectious diseases using chikungunya as a case study. *Proc Natl Acad Sci U S A.* 2016;113(47):13420-5.
- Azman AS, Lauer SA, Bhuiyan TR, *et al.* *Vibrio cholerae* O1 transmission in Bangladesh: insights from a nationally representative serosurvey. *The Lancet Microbe.* 2020;1(8):e336-e43.
- Banu S, Haque F, Ahmed S, *et al.* Social enterprise model (SEM) for private sector tuberculosis screening and care in Bangladesh. *PLoS One.* 2020;15(11):e0241437.
- Kabir S, Rahman SMM, Ahmed Shakil, *et al.* Xpert Ultra assay on stool to diagnose pulmonary tuberculosis in children. *Clinical Infectious Diseases.* 2020 (<https://doi.org/10.1093/cid/ciaa583>)
- Paul RC, Nazneen A, Banik KC, *et al.* 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;14(1):e0007586.
- Paul RC, Gidding HF, Nazneen A, *et al.* A Low-Cost, Community Knowledge Approach to Estimate Maternal and Jaundice-Associated Mortality in Rural Bangladesh. *Am J Trop Med Hyg.* 2018;99(6):1633-8.
- Dhar-Chowdhury P, **Paul KK**, Haque CE, *et al.* Dengue seroprevalence, seroconversion and risk factors in Dhaka, Bangladesh. *PLoS Negl Trop Dis.* 2017;11(3):e0005475.

## ABSTRACT/CONFERENCE PRESENTATION

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- **Paul KK**, Macadam I, Green D, *et al.* Dengue transmission risk in a changing climate: Bangladesh could experience a longer dengue fever season in the future. 2nd Ecosystem Change and Population Health Symposium, 14-15 June, 2021, Brisbane, Australia
- **Paul KK**, Rahman M, Ahmed S, *et al.* Social Enterprise Model to engage private sector for improved tuberculosis care in metropolitan cities of Bangladesh; Oral presentation, The 49th Union World Conference on Lung Health; 24-27 Oct, The Hague, Netherlands.

- **Paul KK**, Alkabab YM, Rahman M, *et al.* Scaling up diabetes mellitus screening in patients with pulmonary tuberculosis in Dhaka, Bangladesh with a public-private model; Poster presentation, The 49th Union World Conference on Lung Health; 24-27 Oct, The Hague, Netherlands.
- **Paul KK**, Sazzad HMS, Rahman M, *et al.* Predominance of adults among Japanese encephalitis cases in Bangladesh, 2007 to 2015: Implications for vaccine introduction. One Health EcoHealth 2016; 3-7 Dec 2016, Melbourne, Australia.
- **Paul KK**, Salje H, Alam MS, *et al.* Spatial heterogeneity for dengue risk in Bangladesh; significance for other arthropod-borne infections such as Zika. Poster presented at Global Disease Detection (GDD) Scientific Meeting, Atlanta, USA (June 2016).
- **Paul KK**, Salje H, Alam S, *et al.* Dengue in Bangladesh: results from a nationwide seroprevalence study. ASTMH 64<sup>th</sup> Annual Meeting (Part of poster session B); 25 - 29 Oct 2015, Philadelphia, PA, USA.
- **Paul KK**, Flora MS. Influence of second-hand smoke exposure at home on acute respiratory conditions of under five children. 45<sup>th</sup> World Conference on Lung Health (Part of oral abstract presentation Session 229 - Clearing the smoke: the synergistic role of the FCTC and MPOWER); 28 Oct - 1 Nov 2014, Barcelona, Spain.
- **Paul KK**, Goswami DR, Chowdhury PD, *et al.* Emerging Health Issues in Bangladesh: Seroprevalence of Dengue Virus infection in Dhaka, Pre-monsoon 2012. ECOHEALTH 2014 (Part of the special session D3 - Ecology, Society and Disease: Dengue disease among Bangladeshi and Canadian populations); 11 - 15 August 2014, Montreal, Canada.

## REFEREES

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**Sayera Banu**  
Senior Scientist  
icddr,b, Dhaka, Bangladesh

**Richard Gray**  
Senior Research Fellow  
Kirby Institute, UNSW Sydney

Contact details available on request