

Tanmoy Sarker

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Education

Master of Public Health (MPH)

January 2022 – January 2023

BRAC James P Grant School of Public Health, BRAC University

Concentration : Public Health

CGPA : 3.69 out of 4.00

Thesis topic : Maternal misperception of under-five children weight status and associated factors: A cross-sectional study

Relevant coursework : Epidemiology, biostatistics, quantitative and qualitative research module, public health anthropology, introduction of implementation research, health economics and healthcare financing, health system management, monitoring and evaluation of public health program, epidemiology of infectious disease, ageing and health, gender, sexual and reproductive health rights and public health nutrition

Bachelor of Medicine and Surgery (MBBS)

January 2007 – January 2013

University of Chittagong (Chittagong Medical College)

CGPA : 3.00 out of 4.00

Relevant coursework : Community medicine, Medicine, Surgery and OB-GYN

Experiences

Research Fellow

February 2025 to present

Center for Noncommunicable Diseases and Nutrition

BRAC James P Grant School of Public Health, BRAC University, Dhaka, Bangladesh

Key responsibilities:

- Developed and submitted research proposals as Co-Principal and Co-Investigator
- Quantitative and qualitative tool development
- Open Data Kit (ODK) form development
- Cluster distribution, randomization and field plan development
- Conducted qualitative interviews

- Data analysis and quality control
- Training module development
- Conducted training sessions for research personnel, primary healthcare providers, public health professionals
- BCC material development
- Report writing
- Lead or oversee research projects independently
- Teaching fellow at 'Ageing and Health' course of MPH
- Mentoring MPH students in their thesis
- Coordinating center related activities

Deputy Research Coordinator

July 2023 to January 2025

Center for Noncommunicable Diseases and Nutrition

BRAC James P Grant School of Public Health, BRAC University, Dhaka, Bangladesh

Key responsibilities:

- Developed and submitted research proposals as Co-Principal and Co-Investigator
- Quantitative and qualitative tool development
- Open Data Kit (ODK) form development
- Cluster distribution, randomization and field plan development
- Conducted qualitative interviews
- Data analysis and quality control
- Training module development
- Conducted training sessions for research personnel, primary healthcare providers, public health professionals
- BCC material development
- Report writing
- Lead or oversee research projects independently
- Teaching fellow at 'Ageing and Health' course of MPH
- Mentoring MPH students in their thesis

Research Medical Officer

February 2023 to June 2023

Center for Noncommunicable Diseases and Nutrition

BRAC James P Grant School of Public Health, BRAC University, Dhaka, Bangladesh

Key responsibilities:

- Developed quantitative tool
- Developed Open Data Kit (ODK) form
- Performed data analysis and quality control
- Developed training module

- Conducted workshops and consultation meetings with the local and national level stakeholders
- Report writing
- Trained primary healthcare providers on NCD management protocol
- Lead or oversee research projects independently

Research Medical Officer

August 2020 to January 2022

Center for Noncommunicable Diseases and Nutrition

BRAC James P Grant School of Public Health, BRAC University, Dhaka, Bangladesh

Key responsibilities:

- Lead a field team of medical technicians, phlebotomists, and data collectors
- Conducted community sensitization meetings
- Reviewed test reports (FBS, HbA1c, lipid profile, urinary albumin, urinary sodium, ECG, retinal photographs, spirometry)
- Ensured the maintenance and quality of tools and diagnostic apparatus
- Attended the screened participants for clinical management, counseling and referral
- Developed supporting documents regarding data collection

Research Medical Officer

September 2018 to July 2020

University of Chicago Research Bangladesh

Key responsibilities:

- Attended outdoor patients and provided clinical management, counseling and referral
- Collected data on demographic, behavioral and clinical history of a cohort for NCD

Medical Officer

July 2016 to August 2017

Chattogram Maa-O-Shishu Hospital Medical College, Chittagong, Bangladesh

Key responsibilities:

- Attended outdoor patients and provided clinical management and counseling
- Management of indoor patient in the Department of Urology

Clinical Officer

August 2014 to May 2016

Marie Stopes Bangladesh

Key responsibilities:

- Performed long-acting permanent method of contraception at rural setting

Scholarship and awards

- **Travel Award from NIHR Global Health Research Network** to attend a workshop on ‘**Genetic Epidemiology and Bioinformatics**’ at Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore, from 21 July to 25 July 2025
- **Quality Journal Publication Award** for publishing “Sarker, T., Ahmed, S., Rahman, S., & Chakraborty, B. (2024). Maternal misperception of under-five children weight status and associated

factors: A cross-sectional study. Maternal & Child Nutrition, e13674” at Q1 journal, BRAC University on 24 April 2025

- **National Health and Care Research (NIHR) Grant** to pursue a Master of Public Health (MPH) degree in 2021-2022 session at BRAC James P Grant School of Public Health, BRAC University
- **Travel Award from NIHR Global Health Research Network** to attend a workshop on ‘**Genetic Epidemiology and Bioinformatics**’ at Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore, from 22 July to 26 July 2023
- **Sir Fazle Hasan Abed KCMG award for leadership** for being the best academic and social leader in the 2022 Master of Public Health program at BRAC University
- **Scholarship for outstanding performance in Higher Secondary Certificate (HSC) examination**, Ministry of Education, Government of Bangladesh (2006-2007)

Membership

- Global Health Research Unit Trainee Network
- Bangladesh Medical Association

Training and workshops

- Short course on ‘**Environmental Health Research**’, organized by Department of Public Health and informatics, Bangabandhu Sheikh Mujib Medical University, in collaboration with icddr,b and University of Chicago from 19 February to 20 February 2025
- Short course on ‘**Introduction to R**’, organized by BRAC James P Grant School of Public Health, BRAC University from 17 February to 18 February 2025
- Short course on ‘**Introduction to Systematic Review and Meta Analysis in Health Research**’, organized by BRAC James P Grant School of Public Health, BRAC University from 10 February to 12 February 2025
- Online short course on ‘**Basic R Programming and RNA-seq Data Analysis**’, organized by Future Bioscience 1-8 February, 2025
- NIHR Global Health Research Network workshop on ‘**Genetic Epidemiology and Bioinformatics**’ at Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore, from 24 July to 28 July 2023
- Short course on ‘**Economic Evaluation: Cost-Effectiveness and Cost Benefit Analysis in Health Care**’, organized by BRAC James P Grant School of Public Health, BRAC University and Institute of Health Economics, University of Dhaka from 28 January to 30 January 2024
- Course on ‘**Essential Elements of Ethics**’ by The Global Health Network, 2023
- Course on ‘**Introduction to Implementation Research Module**’ organized by BRAC James P Grant School of Public Health, BRAC University from 24 – 28 July, 2022
- Certificate course on ‘**Diabetes and CVD**’ by International Diabetes Federation (IDF) school of Diabetes, 2021
- Certificate course on ‘**Prevention of Type 2 Diabetes**’ by International Diabetes Federation (IDF) school of Diabetes, 2021
- Certificate course on ‘**Accurate automated blood pressure measurement**’ by The Pan American Health Organization, 2020

- Certificate course on **‘Online Comprehensive Training Course on COVID-19 for Doctors’** by Aspire to Innovate, Ministry of Post Telecommunications and Information Technology and Directorate General of Health Services, Ministry of Health, Government of Bangladesh, 2020
- Certificate course on **‘Clinical Management of Coronavirus Disease (COVID-19)’** by Directorate General of Health Services, Ministry of Health, Government of Bangladesh, 2020
- Course on **‘Marie Stopes Medical Emergency Management’** by Marie Stopes International, 2015
- Course on **‘Clinical Contraception, HIV/AIDS and RTI/STI Case Management for Doctors’** by Marie Stopes Bangladesh and Ministry of Health and Family Welfare, Government of Bangladesh, 2015
- One year of **‘Internship training in Medicine, Surgery and Obstetrics-Gynecology (Residency)’** from January 2013 to January 2014 at Chittagong Medical College Hospital, Chittagong.

Projects/studies handled as coordinator/investigator

| Sl. no | Project title | Donor (sponsor) | Duration | Role |
|--------|--|---|--------------------------|---------------------------|
| 1 | Evaluation of the effectiveness of 5A-5R Counselling Services for tobacco quitting with or without mobile phone-assisted remote support in rural primary healthcare settings | Bangladesh Center for Communication Programs (BCCP) | 01/4/2024 to 30/11/2024 | Co-Principal Investigator |
| 2 | Evaluation of key NCD services by WHO PEN protocol in all the sub-districts of Dinajpur in Bangladesh | Government of Bangladesh | 07/04/2024 to 31/09/2024 | Co-Investigator |
| 3 | Addressing gaps in the hypertension and diabetes care continuum in rural Bangladesh through mHealth and decentralized primary care: The Dinajpur Study | National Health and Care Research (NIHR), UK | 01/01/2024 to 30/09/2026 | Co-Investigator |
| 4 | Understanding the Patterns and Determinants of Health in South Asians People-South Asia Biobank | National Health and Care Research (NIHR), UK | 01/10/2021 to 30/09/2026 | Co-Investigator |
| 5 | Evaluation on 360 Degree NCD Care project | BRAC, Bangladesh | 17/05/2025 to 16/05/2026 | Co-Investigator |
| 6 | Evaluation of strengthening of key NCD services by NCD management model in three sub-districts of one border-based district in Bangladesh | Government of Bangladesh | 01/03/2023 to 30/06/2024 | Study Coordinator |
| 7 | Development and testing of an Upazila-specific model of 'whole-of-government' and 'whole-of-society' approaches for the prevention and control of non-communicable diseases in a sub-district of | Government of Bangladesh | 1/09/2022 to 31/08/2024 | Study Coordinator |

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|--------|---|--|--------------------------|-------------------|
| | Bangladesh | | | |
| 8 | Understanding the Patterns and Determinants of Health in South Asians People-South Asia Biobank | National Health and Care Research (NIHR), UK | 01/01/2019 to 30/09/2021 | Study Coordinator |

Publications

Peer reviewed journal article

1. **Sarker, T.**, Ahmed, S., Rahman, S., & Chakraborty, B. (2024). Maternal misperception of under-five children weight status and associated factors: A cross-sectional study. *Maternal & Child Nutrition*, e13674.
2. Chakravartty M, Kumari S, Chakma T, Shahriar M, **Sarker T**, Akter F, Hossain MM, Ahsan AA, Sharmin S, Mridha KM (2025). Factors Associated with Generalized Anxiety Disorder and Depression among Adults living with Diabetes and Hypertension Comorbidity in rural Bangladesh. (Accepted BMJ Open)
3. Chakma T, Chakravartty M, Kumari S, Shahriar M, **Sarker T**, Akter F, Hossain MM, Ahsan AA, Sharmin S, Mridha KM (2025). Health-related quality of life status among rural population living with hypertension and diabetes co-morbidity: A cross-sectional quantitative study in Chirirbandar, sub-district of Dinajpur. (Under review BMJ Open)
4. Akter F, Hossain MM, Shamim AA, **Sarker T**, Khan MSA, Hasan M, Hanif AAM, Ullah MA, Rahman SMM, Mridha MM (2025). Sex differences and correlates of dietary diversity among older adults (60 years and above) in Bangladesh: Findings from a nationally representative cross-sectional study. (under-review BMJ Open)
5. Xie, W., Ahmed, S., Ahsan, A., **Sarker, T.**, Akter, F., Hossain, M. M., ... & Mridha, M. K. (2024). Addressing Gaps in the Hypertension and Diabetes Care Continuum in Rural Bangladesh through Digital Technology Supported Decentralized Primary Care: Protocol for a Type 2 Effectiveness-Implementation Hybrid Study. (under-review JMIR research protocol)
6. **Sarker T**, Ahsan A, Akter F, Hossain MM, Rahman S, Hossain AHME, Paul RR, Amin R, Mridha MK (2024). Developing and Testing of a Sub-district-specific Model of 'Whole-of-Government', and 'Whole-of-Society' Approaches for the Prevention and Control of Non-Communicable Diseases in a Sub-district of Bangladesh: Protocol for a Quasi Experimental Study. (under- internal review)
7. **Sarker T**, Ahsan A, Akter F, Hossain MM, Xie W, Oldenburg B, Chambers J, Mridha KM, (2025). Noncommunicable Diseases Service Delivery Readiness of Primary Healthcare Facilities in Rural Bangladesh. (under- internal review)

Research report

1. BRAC James P Grant School of Public Health (2023). Development and testing of an Upazila-specific model of 'whole-of-government' and 'whole-of-society' approaches for the prevention and control of non-communicable diseases in a sub-district of Bangladesh: BRAC James P Grant School of Public

Health and Integrated Health-Science Research and Development Fund, Ministry of Health and Family Welfare (MoHFW)

2. BRAC James P Grant School of Public Health (2022). Evaluation of strengthening of key NCD services by NCD management model in three sub-districts of one border-based district in Bangladesh: BRAC James P Grant School of Public Health and Non-Communicable Disease Control Program Directorate General of Health Services, Health Services Division, Ministry of Health and Family Welfare (MoHFW)

Abstracts/Conference presentations

1. **Sarker T**, Ahsan A, Akter F, Hossain MM, Hasan M, Faruque M, Uddin SN, Karim A, Hussain AHME, Sarker M, Chamber J, Mridha MK (2025). Correlation between level of visceral fat and serum lipid profile in obese Bangladeshi adults: Findings from a nationwide survey. 23rd IUNS-ICN *International Congress of Nutrition*. (Accepted for poster presentation)
2. **Sarker T**, Rahman S, Naher N, Akter F, Chakraborty B (2023). Difference between mother's perception about their under-five children's nutritional status from the anthropometry derived nutritional status: a Cross-sectional study in the slums of Dhaka, Bangladesh. 14th Asian Congress of Nutrition. *Feeding the future by sustainable nutrition*. 14-17 September 2023 (Oral presentation)
3. **Sarker T**, Hossain M, Roy A, Hasan M, Paul RR, Hasan M, Sarker M, Goon I, Oldenberg B, Chambers JC, Mridha MK (2022). Service Availability and Readiness of Health Facilities for Non-Communicable Disease in Two Sub-Districts of Bangladesh. 1st National NCDs Conference, Bangladesh. 26-28 January 2022 (Oral presentation)

Technical skills and competencies

- **English** - Professional proficiency (IELTS score: 7.0)
- **Bengali** - Native Speaker
- **Data Analysis**: STATA (Biostatistics computing software): Intermediate working proficiency, R
- **Microsoft office**: Microsoft Word, Microsoft Excel and Microsoft Power-point