

Resume of

MD. ABDUR RAZZAQUE SARKER

Country of birth: **Bangladesh**

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CURRENT POSTSION

Assistant Scientist (From 01.01.2016 to date)

Health Economic and Financing Research

International Centre for Diarrheal Disease Research, Bangladesh

68, Shahid Tajuddin Ahmed Sarani, Mohakhali, Dhaka-1212,

Bangladesh.

ACADEMIC QUALIFICATION

- PhD Researcher in Management Science of *Health Economics*
Session: 2015-2018
University of Strathclyde, Glasgow, UK
- Master of *Health Economics*
Session: 2007, Held in 2009
University of Dhaka, Bangladesh.
- Master of *Economics*
Session: 2011-3-88-10, Held in 2013
East West University, Bangladesh.
- Bachelor of Science in *Environmental Sciences*
Session: 2000-2001, Held in 2006
National University, Bangladesh.

ACADEMIC AFFILIATION

- Part time Faculty in *Health Economics and Management Course*, School of Public Health at Independent University of Bangladesh (IUB).
- Teaching assistantship in *Health Economics and Economic Evaluation*, James P Grant School of Public Health, BRAC University.
- Course facilitator of introductory course on *Economic Evaluation of Health care intervention*. Health in 7-9 January, Centre for Excellence for Universal Health Coverage Project, CEHS, icddr,b.
- Post graduate researcher, University of Strathclyde, Glasgow, UK

TRAINING AND CERTIFICATES

- Course on “*Introduction to Quantitative Methods: Survey Design & Analysis*” organized by Strathclyde University, UK in February 23-25, 2016.
- Course on “*Research Philosophy*” organized by Strathclyde University, UK in December 7-12, 2015.
- Training on “*Result Based Management (RBM)*” organized by icddr,b. Held in September 1-2, 2015.
- Training on “*Scientific Project Management*” organized by Westat, USA and icddr,b. Held in May 13-14, 2014.

- Training on “***National Accounts***”, organized by Health Economics Unit, Ministry of Health and Family Welfare Government of the People's Republic of Bangladesh. Held in February 3-6, 2014.
- Certificates on “***Training of Trainers (TOT)***”, organized by Technical Training Unit, icddr,b. Held in December 18-19, 2013.
- Certificates in “***Getting Published in High Impact Journals***” held in June 11, 2013. Organized by icddr,b and PLOS medicine and BMJ journal.
- Training course on “***Measuring and Monitoring Health Equity using ADePT***”, held in 28-29 April, 2013. Organized by Centre of Excellence for Universal Health Coverage and World Bank.
- Training on “***Statistical Analysis using STATA***”, organized by icddr,b and JPGSPH. Held in November 18, 2012 to January 17, 2013.
- Training on “***Introductory course on Healthcare Financing***”, held in 24-26 September 2012, organized by JPGSPH and icddr,b.
- Training on “***Introductory course on Universal Health Coverage***”, held in 2-4 July 2012, organized by JPGSPH and icddr,b.
- Certificates on “***EndNote Training Course***”, held in 5 April 2011, organized by icddr,b, Bangladesh.
- Certificates on “***Literature Search Training Course***”, held in 6 March 2011, organized by icddr,b, Bangladesh.
- Certificates on “***Information Literacy Training Course***”, held in 20 February 2011, organized by icddr,b, Bangladesh.
- Certificate in “***Health Economic Workshop***”, Organized by Centers For Diseases Control and Prevention (CDC), USA and icddr,b, Bangladesh. 7to 9 December 2010.
- Training Course on “***Tobacco Economics***”, held in February to March 2010, organized by Unnayan Shamannay, Dhaka.
- Training on “***Research Methodology***”, Organized by Advance Research in Social Sciences (CARSS), University of Dhaka.25-5th July 2008.

ONLINE CERTIFICATES

- Web based training course on “***Basic of Health Economics***”, held in September-October 2015, organized by World Bank Group (WB).
- Online course on “***Measuring and Valuing Health***”, held in February 2015, organized by School of Health and Related Research, University of Sheffield.
- Online course on “***Ebola in Context: Understanding Transmission, Response and Control***”,held in February 2015, organized by London School of Hygiene & Tropical Medicine.
- Certificates on “***Health Technology Assessment***”, held in August 2014, organized by School of Health and Related Research, University of Sheffield.
- Certificates on “***Economic Evaluation***”, held in 11 September 2011, organized by Global Health eLearning Centre. A joint venture of USAID and John Hopkins Bloomberg School of public health.
- Extramural Research Certificates on “***Protecting Human Research Participants***”, Organized by National Institute of Health (NIH).3.15.11Feb-march 2010.

SEMINARS/SYMPOSIUM/CONFERENCE ATTENDED

- Attending conference on *Priorities 2016 - New frontiers of priority setting*, held in 7-9 September 2016 at University of Birmingham, UK
- Attending Symposium on “*Global Health : Recent progress and Future Challenges*”, held in 25 Feb 2016 at Royal College of Physicians of Edinburgh, UK.
- Attending seminar title “*Achieving better health outcomes and value for money in low and middle-income countries (LMICs): the prioritization challenge*”. November 20, 2015, University of Strathclyde, Glasgow, UK.
- Conference on Vaccine -2013 as a presenter on “*Cost of Illness for Cholera in a High Risk Urban Area in Bangladesh: an Analysis from Household Perspective*” held on 29-31 July, 2013, Las Vegas, USA, organized by Vaccine and Vaccination of OMICS.
- Presentation in meeting of Bill & Melinda gates foundation and International Vaccine Institute (IVI). Title: *Economic components of Introduction cholera Vaccine in Bangladesh*. Held in 2012 and 2013 (as a presenter).
- Attending Symposium on *Health Economics Issues and Health Financing* held on 20-21 April 2013. Organized by the University of Dhaka.
- Attending Manuscript Round Journal Club, March 2011, Led by Dr. Richard SW Smith, Director, United Health Chronic Diseases Initiative, and Former Editor, The British Medical Journal (BMJ).
- Attending *Annual Summer Research Workshop in Management Science*, held in 4-5 February, 2016. Strathclyde University, Glasgow, UK.
- Thesis paper presenting at East west University of Bangladesh. Title: “**Impact of ill health on Labour Productivity and Healthcare Utilization- A case of informal sector worker in urban Bangladesh**” held in 2014, Dhaka, Bangladesh.

POSTER PRESENTATION

- *Priorities 2016 - New frontiers of priority setting*, held in 7-9 September 2016 at University of Birmingham, UK. Title of the poster: Determinants of Enrolment of Informal Sector Workers in Cooperative Based Health Scheme in Bangladesh.
- *Global Health: Recent progress and Future Challenges*, held in 25 Feb 2016 at Royal College of Physicians of Edinburgh, UK. Title of the poster: Health related Quality of Life (QoL) and treatment cost for cholera patient in urban Bangladesh.
- *Annual BoT Meeting*, held in 2012 at icddr,b, Bangladesh. Title of the poster: Cost Implications on Households and Vaccine Provider for Cholera in Bangladesh.

POSITIONS PREVIOUSLY HELD

- Research Investigator (From 14.04.2012 to 31.12.2015)
Health Economic and Financing Research
International Centre for Diarrheal Disease Research, Bangladesh
- Research Fellow (From 03.11.2010 to 14.04.2012)
Health Economic Unit (HEU)
International Centre for Diarrheal Disease Research, Bangladesh (icddr,b).

OTHER ACTIVITIES

- *Gender Focal Point*, Centre For Equity and Health System, icddr,b.
- Member of Research Abstract Review Committee for the International Society for Pharmacoeconomics and Outcomes Research (ISPOR) 7th Asia-Pacific Conference, 2016
- Abstract Review Panel Member of iHEA World Congress - Revolutions in the Economics of Health Systems

REVIEWER OF JOURNALS:

1. Nordic Journal of Health Economics
2. Cogent Economics and Finance
3. SpringerPlus
4. Journal of Water, Sanitation and Hygiene for Development
5. EURO Journal on Decision Processes
6. Phramacoeconomics
7. Journal of Occupational and Environmental Medicine
8. BMJ Global Health

COMPUTER SKILLS

- MS Office package (Word, Excel, Power Point)
- Database, SPSS, STATA, DISMOD, R, TreeAge, ADEPT.

LANGUAGE SKILLS

- Fluent both in English and in Bengali.

PEER-REVIEWED PUBLICATIONS:

1. **Sarker AR**, Sultana M, Mahumud RA, Nurnabi S, Meer RVD, Morton A (2016) Prevalence and healthcare-seeking behaviour for childhood diarrheal disease in Bangladesh. *Global Pediatric Health*. Volume 1(3) pp 1-12;
2. **Sarker AR**, Islam Z, Khan IA, Saha A, Chowdhury F, Khan AI, Cravioto A, Clemens JD, Qadri F, Khan JAM (2015). Estimating the cost of cholera-vaccine delivery from the societal point of view: A case of introduction of cholera vaccine in Bangladesh. *Vaccine*. Volume 11; 33 (38): 4916-21.
3. **Sarker AR**, Islam Z, Khan IA, Saha A, Chowdhury F, Khan AI, Qadri F, Khan JAM (2013). Cost of Illness for Cholera in a High Risk Urban Area in Bangladesh: An Analysis from Household Perspective. *BMC Infectious Diseases* 13 (1), 518.
4. **Sarker AR**, Sultana M, Mahumud RA et al et al (2016). Occupational illness on labor productivity: A socio-economic aspect of informal sector workers in urban Bangladesh. *Journal of Occupational Health*. Volume 58(2):209-15
5. **Sarker AR**, Sultana M, Mahumud RA (2016). Co-operative Societies: A sustainable platform for promoting universal health coverage in Bangladesh. *BMJ Global Health*. Volume 1(3) 2016; 1:e000052. doi:10.1136/bmjgh-2016-000052
6. **Sarker AR**, Mahumud RA, Sultana M et al (2014). The impact of age and sex on healthcare expenditure of households in Bangladesh. *SpringerPlus* 3:435.
7. **Sarker AR**, Khan JAM (2013). Informal Workers in Bangladesh: An Analysis from socio-economic perspective. *Asian Journal of Research in Business Economics and Management*. Volume 3, Issue 6.
8. Mahumud RA, Sultana M, **Sarker AR** (2016). Prevalence and associated determinants of low birth weight in developing countries: A multi-country analysis from nationwide population-based survey. Accepted in *Journal of Preventive Medicine and Public Health*
9. Mahumud RA, Sultana M, **Sarker AR** (2015). Trend of Healthcare Expenditures in Bangladesh over Last Decades. *American Journal of Economics, Finance and Management*. Volume. 1, Issue 3, pp. 97-101.
10. Sultana M, **Sarker AR** et al (2016). Inequalities in health status among low income communities: EQ-5D findings from household survey in selected communities of Bangladesh. *International Journal of Health Policy and Management*. Volume 5 (3)
11. Islam Z, **Sarker AR** et al (2015). Costs of integrating demand based reproductive health commodity model into the Government and NGO service delivery systems in Bangladesh: a supply side perspective. *SpringerPlus*. Volume 4:808
12. Sultana M, Mahumud RA, **Sarker AR** (2015). Emerging Patterns of Mortality and Morbidity in District Level Hospitals in Bangladesh. *Ann Public Health Res*. 2(4)
13. Mahmud RA, Hossain MG, **Sarker AR** et al (2015). Prevalence and associated factors of contraceptive discontinuation and switching among Bangladeshi women of reproductive age. *Open Access Journal of Contraception*. Volume 6:13-19.
14. Sultana M, Mahumud RA, **Sarker AR**, Hossain SM (2016). Hand hygiene knowledge and practice among university students: evidence from Private Universities of Bangladesh. *Risk Management and Healthcare Policy*. Volume 2016:9 Pages 13—20
15. Khan JAM, Ahmed S, **Sarker AR**, Sultana M et al (2016). Benefit Incidence Analysis of Healthcare in Bangladesh – Equity Matters for Universal Health Coverage. *Health Policy and Planning*. Volume 2016:1 Pages 1–7.
16. Ahmed S, Hoque ME, **Sarker AR**, et al (2016). Willingness-to-Pay for Community-Based Health Insurance among Informal Workers in Urban Bangladesh. *PLoS ONE*. Volume 11(2)

PROTOCOL

1. Sultana M, Mahumud RA, Ahmed S, Islam Z, Khan JAM, **Sarker AR** (2017). The effectiveness of introducing Group Prenatal Care (GPC) in selected health facilities in a district of Bangladesh: study protocol. Accepted in *BMC Pregnancy and Childbirth*.

EDITORIAL

1. Mahumud RA, Sultana M, Sheikh N, Ali MN, Mitra DK and **Sarker AR** (2016). Diagnostic Errors in Low and Middle-Income Countries: Future Health and Economic Burden for Patient Safety. *Austin Emergency Medicine*. Volume 2 Issue 8.

PEER-REVIEWED PUBLICATIONS (SUBMITTED)

1. **Sarker AR**, Sultana M, Mahumud RA, Ahmed S, Morton A, Khan JAM (2016) Determinants of Cooperative Based Health Scheme (CoBHS) in Bangladesh: Evidence from a Labor Cooperative of informal sector worker (Peer reviewing process at *Plos One*).
2. Mahumud RA, **Sarker AR**, Sultana M, Ahmed S, Islam Z, Khan JAM (2016) Health care seeking behaviour of garments workers in urban Bangladesh (Peer reviewing process at *Occupational Medicine*)
3. Ahmed S, **Sarker AR**, Sultana M, Islam Z, Rukhsana G, Khan JAM (2016) The Impact of Community-Based Health Insurance on the Utilization of Medically Trained Healthcare Providers among Informal Workers in Bangladesh (Peer reviewing process at *Social Science & Medicine*)
4. Mahumud RA, **Sarker AR**, Sultana M, Ahmed S, Khan JAM, Morton A, (2016) The determinants of out-of-pocket healthcare expenditure in Bangladesh: Evidence from the Household Income and Expenditure Survey-2010 (Peer reviewing process at *Journal of Bio-Social Science*).
5. Sultana M, Mahumud RA, Ahmed S, Islam Z, Khan JAM, **Sarker AR** (2016) Cost of Introducing Group Prenatal Care (GPC) in Bangladesh: a supply side perspective (Peer reviewing process at *The Journal of Obstetrics and Gynaecology Research*).
6. Sultana M, Mahumud RA and **Sarker AR** (2016). Burden of chronic illness and associated disabilities in Bangladesh: Evidence from Household Income and Expenditure survey (Peer reviewing process at *Chronic Diseases and Translational Medicine*).
7. Mahumud RA, Sultana M and **Sarker AR** (2016). Inequity of childhood mortality towards Universal Health Coverage in Bangladesh survey (Peer reviewing process at *International Journal for Equity in Health*).
8. Sultana M, Mahumud RA and **Sarker AR** (2016). Socio economic Inequities in the utilization of Maternal Healthcare Services in Bangladesh. (Peer reviewing process at *Plos One*).

CURRENT ENROLLED PROJECTS:

Principle Investigator (PI)

Project 1

Project title: Introducing Group Prenatal Care (GPC) in Bangladesh.

Funded by: Grand Challenges Exploration of B&M Gates Foundation.

Project 2

Project title: Estimation of the burden of diarrheal disease: A Case study in several district hospital and a tertiary Level icddr,b Hospital Bangladesh.

Area: Economic cost and Burden Analysis

Funded by: SIDA Funded Young Investigator Award, icddr,b.

Project 3

Evaluation of health insurance scheme of garment's workers in Bangladesh – from demand-side perspective evaluation of health insurance scheme of garment's workers in Bangladesh

Area: Health Insurance

Funded by: Swiss Tropical and Public Health Institute.

Co- Principle Investigator (Co-PI)

Project

Self-financed health scheme of labour cooperative for accessing quality healthcare of informal sector workers in Bangladesh

Area: Health care financing

Funded by: Grand Challenge Canada.

Co - Investigator (Co-I)

Project 1

Targeted vaccination of children in the urban slums against cholera: evaluation of a potentially cost-effective and impactful strategy for deploying oral cholera vaccine against endemic cholera in Bangladesh

Area: Vaccine Research

Funded by: GAVI.

Project 2

Understanding the burden of enteric fever in Africa and Asia: A study of transmission and antibiotic resistance to improve diagnostics and inform vaccine strategies

Area: Vaccine Research

Funded by: Oxford Vaccine Group.

Project 3

The Economic Burden of Rotavirus Infection among Under-Five Children in Selected Hospitals of Bangladesh

Area: Economic Burden Analysis

Funded by: US Centre for Disease Control (CDC), USA.

Project 4

Expanded Program for Immunization (EPI) in Bangladesh: Tracking and analyzing financial resources

Area: Resource tracking and cost analysis

Funded by: Institute of Health Matrices and Evaluation (IHME), University of Washington.

Project 5

Estimating Costs of Infant and Young Child-Feeding (IYCF) Practices Improvement Program in Bangladesh Using Activity-Based Costing Approach

Area: Cost Analysis

Funded by: International Food Policy Research Institute (IFPRI).

Research Investigator (RI)

Project 1

Economic Evaluation of Introduction of Cholera Vaccine in Bangladesh (ICVB)

Area: Cost of illness study, Vaccine delivery cost, Cost-Effective Analysis, Cost- Benefit Analysis

Funded by: Bill and Melinda Gates Foundation

Project 2

Estimating Costs of MNCH Initiative in Bangladesh Implemented by UNICEF

Area: Cost Analysis

Funded by: UNICEF, JPGSPH and icddr,b, Bangladesh

Project 3

Healthy Youth Development and Resilience Study

Area: Developing an effective toolkit for Child labour.

Funded by: Collaboration with McGill University, Canada and icddr,b, Bangladesh