

Md Marufur Rahman

83E, Cavendish St., Regina, SK, S4N 5C1, Canada (from Nov 2024)

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<https://www.linkedin.com/in/ripendil>

[Google Scholar](#)

Skills & Interest:

Cancer Screening, Cancer Epidemiology, Clinical Oncology, Personalized Oncology, Clinical Trial, Genomics, Health Program Evaluation, Health Promotion, Science Communication, Quality of life, Epidemiology, Data Analysis, R, Graphpad Prism, Microsoft Office software package, Bioinformatics

Experience:

Doctoral Researcher Oct 2021-present

Division of Clinical Medicine, School of Medicine & Population Health, University of Sheffield, UK

- Develop and evaluate pre-clinical research 2D and 3D drug screening models as part of Ex vivo determined cancer therapy (EVIDENT) trial
- Collaborate with academic and overseas industry partners for fund management, protocol optimisation and resource sharing
- Identify current research gaps related to the project, compile data from earlier research, generate data through lab experiments.
- Plan for financial management, data management and material management
- Develop SOPs for laboratory procedures, clinical data collection, anonymisation and storing.
- Train project team members on laboratory procedures, data cleaning, optimisation and analysis
- Perform high throughput screening data analysis using R and Graphpad Prism.
- Conduct monthly stakeholder meetings and present project progress with relevant results.
- Co-ordinate with surgical care team, nurses, clinical trial assistants, histopathologists and IT services to obtain patient data and tissue.
- Develop patient information sheet and take patient consent
- Submit proposals for grants
- Prepare reports, protocols, manuscripts as appropriate.
- Present project findings at national and international conferences

Deputy Program Manager

Mar 2020- Oct 2021

Management Information System, Directorate General of Health Services, Ministry of Health and Family Welfare, Bangladesh

- Plan, execute and supervise implementation actions to achieve short, mid and long term deliverables of the Health Information System & eHealth operational plan of 4th Health Population Nutrition Sector Program
- Collaborate with government, non-government and international stakeholders to develop 10 year workplan for different components of the operational plan
- Lead team to conduct feasibility assessment of national congenital hypothyroidism newborn screening program and thalassemia screening program
- Develop and manage national routine health data tools and evaluate facility performances using DHIS2 software system
- Develop and manage National COVID-19 surveillance system, lead and train personnel for regular data capture, entry, cleaning, monitoring and reporting
- Analyse other public health data from national database, surveys and other sources. Formulate and validate qualitative and quantitative survey tools.
- Lead and manage editorial team for annual publication of National Health Bulletin and COVID Health Bulletin
- Collaborate with stakeholders to generate and disseminate COVID-19 and other health related communication materials
- Plan for annual health facility performance evaluation and lead team for field level assessment, organize quality improvement workshops
- Analyse health data, prepare reports and present to policymakers with appropriate recommendations for health policy adaptations.

Medical Officer

Jan 2020- Mar 2021

Management Information System, Directorate General of Health Services, Ministry of Health and Family Welfare, Bangladesh

- Optimise Health Facility performance evaluation tool for Health System Strengthening Project, supported by the World Health Organization.
- Lead and train field team for facility assessment
- Analyse routine health data from the national health database for annual publication and assist in designing e-Health services.
- Work as co-editor for annual publication of the National Health Bulletin.
- Collaborate with stakeholders for annual performance evaluation and award distribution for healthcare facilities
- Project planning and implementation for the Center for Medical Biotechnology to achieve goals of National Guideline
- Facilitating medical biotechnology laboratory training for physicians and medical teachers

Nov 2016- Sep 2018

Medical Officer

Management Information System, Directorate General of Health Services, Ministry of Health and Family Welfare, Bangladesh

- Develop and test Health Facility performance evaluation tool for Health System Strengthening Project, supported by the World Health Organization.
- Lead and train field team for facility assessment
- Analyse routine health data from the national health database for annual publication and assist in designing e-Health services.
- Work as co-editor for annual National Health Bulletin.
- Collaborate with stakeholders for annual performance evaluation and award distribution for healthcare facilities
- Facilitating medical biotechnology laboratory training for physicians and medical teachers

Aug 2014- Nov 2016

Medical Officer

Upazila Health Complex, Directorate General of Health Services, Ministry of Health and Family Welfare, Bangladesh

- Perform administrative and clinical role as office head at subdistrict union health center
- Deliver clinical and preventive health care through Essential Service Package
- Plan and conduct Behaviour Change Communication activities on sanitation, hygiene, dietary habit.
- Train and lead field workers on routine data collection, screening and primary care service monitoring

Junior Medical Consultant

May 2014- Aug 2014

mPower Social Ltd., Bangladesh

- Providing telemedicine service
- Conducting health camps at the rural level,
- Assisting algorithm development for clinical diagnosis and treatment
- Optimizing hardware add-ons (i.e. digital stethoscope, oxy-meters, etc),

Education:

- PhD in Oncology and Metabolism, The University of Sheffield (Thesis submission stage)
- MSc in Molecular Medicine (Clinical Applications), The University of Sheffield, UK, 2019
Dissertation topic: "**Health economic assessment and HRQoL analysis of haematopoietic stem cell transplantation at a UK transplant centre and its application to a developing nation.**"
- MPH (Epidemiology), American International University-Bangladesh, 2016
Dissertation topic: "**Prevalence and pattern of substance abuse among medical students in Bangladesh**"
- MBBS, Sir Salimullah Medical College, University of Dhaka, Bangladesh, 2012

Projects:

- Development of ex vivo drug screening for solid cancers using high content imaging
- National COVID-19 surveillance and COVID-19 genome analysis project
- Routine health data monitoring through DHIS2 aggregated and individual tracker module
- Operational plan for medical biotechnology, health information system and eHealth component of government's sector development plan
- Health system performance evaluation to assess facility performance across 6 health system building blocks using digital and physical tools
- Feasibility study on National newborn screening and thalassemia screening program
- National Health Bulletin

- COVID-19 Health Bulletin
- COVID-19 risk communication and vaccine awareness communication

Professional registration/membership:

- Licensed Physician, Bangladesh Medical and Dental Council, A61242, 15/05/2013
- Member, European Society for Medical Oncology
- Member, European Association for Cancer Research
- Member, British Association for Cancer Research

Voluntary Roles:

- Editor, Journal of East West Medical College, Dhaka, Bangladesh
- Healthcare Fellow, Youth Policy Forum
- Member, Global Disease Burden Collaborator Network
- Co-founder, Platform Doctor's Foundation
- Former Founding President, Bangladeshi Student Society, University of Sheffield

Awards & Grants:

- Prime Minister's Fellowship Award for Masters (2018-2019), Bangladesh
- Commonwealth Scholarship Award for Doctoral Studies (2021-present), UK
- Integrated Health Science Research and Development Fund Activity, MoHFW, Bangladesh (2022)
- Research Grant: Knowledge Exchange fund, Higher Education Innovation Funding, UKRI, UK (2023)

Conference Presentations:

- Divisional Research in Progress Meeting, Division of Clinical Medicine, The University of Sheffield, UK
- PGR Symposium 2024, The University of Sheffield, UK
- Annual Research Meeting, School of Medicine and Population Health, The University of Sheffield, UK
- Commonwealth PhD Conference 2024, Cumberland Lodge, UK
- ESMO Congress 2023, Madrid, Spain
- Tumour Microenvironment and 3D model workshop, Nottingham, UK
- Trailblazers in Cancer Research: The Next Generation, Manchester, UK

Recent publications:

1. **Rahman, M. M.**, Wells, G., Rantala, J. K., Helleday, T., Muthana, M., & Danson, S. J. (2024). In-vitro assays for immuno-oncology drug efficacy assessment and screening for personalized cancer therapy: scopes and challenges. *Expert Review of Clinical Immunology*, 1–18. <https://doi.org/10.1080/1744666X.2024.2336583>
2. Islam, S. M., Uddin, R., Das, S., Ahmed, S. I., Zaman, S. B., Alif, S. M., Hossen, M. T., Sarker, M., Siopis, G., Livingstone, K. M., Mehlman, M. L., Rahman, **Rahman, M. M.**, Chowdhury, ... Naghavi, M. (2023). The burden of diseases and risk factors in Bangladesh, 1990–2019: A systematic analysis for the global burden of disease study 2019. *The Lancet Global Health*, 11(12). [https://doi.org/10.1016/s2214-109x\(23\)00432-1](https://doi.org/10.1016/s2214-109x(23)00432-1)
3. **Rahman, M. M.**, Wells, G., Rantala, J., Helleday, T., Muthana, M., & Danson, S. (2023). 2302P efficacy assessment of targeted and immunotherapies for personalised treatment of melanoma using 2D and 3D ex-vivo assays. *Annals of Oncology*, 34. <https://doi.org/10.1016/j.annonc.2023.09.1329>
4. Kader, S., **Rahman, M.**, Hasan, M., Hossain, M., Saba, J., Kaufman, S., Christopher, E. and Koly, K., 2021. Workplace Violence Against Doctors in Bangladesh: A Content Analysis. *Frontiers in Psychology*, 12.
5. **Rahman, M.**, Kader, S. and Rizvi, S., 2021. Molecular characterization of SARS-CoV-2 from Bangladesh: implications in genetic diversity, possible origin of the virus, and functional significance of the mutations. *Helijon*, 7(8), p.e07866.
6. Kader, S., **Rahman, M.**, Tulsan, S., Podder, V., Pial, R., & Saha, M. (2020). Associated factors for obstetric fistula among young women and its possible effects on their mental well-being. *Medical Journal Of Dr. D.Y. Patil Vidyapeeth*, 13(3), 224.
7. Khan, A., Ashher, F., Khanam, F., **Rahman, M.**, Khan, M., Paul, S. and Hossain, M. (2018). Baseline Widal Titer Among Healthy Adult Males from the Greater Mymensingh Division of Bangladesh. *Infectious Disorders - Drug Targets*, 18(3), pp.233-240.

Signature:

Date: 16/09/2024