

# ANUPOM DAS, MBBS

## MSc Candidate in Health Informatics

### Karolinska Institutet & Stockholm University

#### Stockholm, Sweden

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## **Education and Academic Training:**

### **M.Sc. in Health Informatics**

2025 – 2027

Karolinska Institutet & Stockholm University, Stockholm, Sweden

#### **Relevant coursework:**

- Health information systems, Information security in healthcare and Health Data Analysis
- User Needs, Requirement Engineering and System Development in Health Informatics
- Research Methods and Health data analytics in Informatics
- Standardization, Interoperability and Clinical decision support systems

### **Fellowship Training: Intermediate Field Epidemiology Training (iFETP)**

2022 – 2023

Institute of Epidemiology Disease Control and Research, Dhaka, Bangladesh

#### **Relevant coursework:**

- Applied Epidemiological methods in Emergency Public Health Response
- Public Health Surveillance, Health Program Evaluation, Emergency Public Health Communication

### **Professional Medical Training: Bachelor of Medicine and Surgery (MBBS)**

2010 – 2015

Rangpur Medical College, University of Rajshahi, Bangladesh

#### **Relevant coursework:**

- Clinical Medicine, Surgery and Basic Medical Sciences
  - Gynecology, Obstetrics, and Child healthcare
  - Public Health Sciences focusing Community Medicine
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## Professional Summary:

Physician and epidemiologist with over eight years of experience spanning clinical medicine, epidemiology, clinical trials, disease surveillance, digital health implementation, and health systems strengthening. Currently pursuing a Joint Master's in Health Informatics at Karolinska Institutet & Stockholm University under the Swedish Institute Scholarship 2025-2027. My research integrates artificial intelligence, health informatics, epidemiology, and digital health to improve healthcare delivery, clinical decision support, disease surveillance, and health equity, particularly in low- and middle-income countries. I aim to develop scalable, data-driven digital health solutions that bridge clinical medicine, public health, and computer science.

### ***My research focuses on:***

- Artificial Intelligence in Healthcare
- Digital Health
- Clinical Decision Support Systems
- Health Information Systems
- Health Data Science
- Electronic Health Records
- Public Health Informatics
- Clinical Health Informatics
- Digital Health Equity
- Interoperability

### ***Experienced in:***

- Clinical trials
  - Digital Health Information System
  - Health data analysis
  - Disease surveillance
  - Public health program evaluation.
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## **Research Experience:**

### **Research Physician**

JiVitA Project of Johns Hopkins University, at Gaibandha in Bangladesh

**2017-2018**

**Project:** *Multiple Micronutrient Supplementation in Pregnancy Trial*

#### **Research Focus:**

Community-based maternal nutrition trial evaluating the effectiveness of multiple micronutrient supplementation during pregnancy on maternal health and birth outcomes in rural Bangladesh.

#### **Key Responsibilities and Research Contributions**

- Coordinated day-to-day implementation of a large community-based maternal nutrition research project, ensuring adherence to study protocols and ethical guidelines.
- Supervised participant recruitment, follow-up visits, and field trial activities while maintaining high-quality clinical and epidemiological data collection.
- Performed quality assurance of field data through routine monitoring, verification, and protocol compliance assessments.
- Conducted image-based identification and documentation of congenital birth defects, supporting clinical investigations and outcome validation.
- Supervised field laboratory operations, including biological sample collection, handling, transportation, processing, and storage according to standardized operating procedures.
- Collaborated with multidisciplinary teams comprising physicians, laboratory technologists, epidemiologists, and field staff to ensure high-quality research implementation.
- Contributed to data management, monitoring, and reporting activities that supported evidence generation for maternal and child health research.

#### **Research Methods & Skills**

- Community-based clinical trial
- Maternal and child health research
- Epidemiological field research
- Clinical data quality assurance
- Biological specimen management
- Good Clinical Practice (GCP)
- Research ethics and protocol compliance

### **Research Associate**

**Iron Fortified Lentil Trial at BRAC & University of Saskatchewan**

**2018-2019**

**Project:** *Consumption of Iron-Fortified Lentils for the Prevention of Iron Deficiency among Adolescent Girls in Bangladesh*

**Research Focus:**

Community-based double-blind, cluster-randomized controlled trial evaluating the effectiveness of iron-fortified lentil consumption in improving iron status and preventing iron deficiency among adolescent girls in Bangladesh.

**Key Responsibilities and Research Contributions**

- Coordinated implementation of a multicenter randomized controlled trial, ensuring compliance with study protocols, ethical standards, and quality assurance procedures.
- Monitored trial implementation, participant follow-up, and field activities while maintaining accurate documentation and timely progress reporting.
- Managed research data collection, verification, cleaning, and quality control to ensure data integrity for statistical analysis.
- Supervised field laboratory operations, including biological sample collection, transportation, processing, storage, and adherence to biosafety and quality standards.
- Collaborated with multidisciplinary research teams, including physicians, nutritionists, epidemiologists, laboratory scientists, and field investigators, to ensure successful trial execution.
- Contributed to statistical reporting, interpretation of study findings, and dissemination of research through peer-reviewed scientific publications.

**Research Methods & Skills**

- Double-blind cluster-randomized controlled trial
- Clinical nutrition research
- Epidemiological field research
- Clinical data management and quality assurance
- Biological specimen management
- Statistical reporting and research dissemination
- Good Clinical Practice (GCP) and research ethics

**Clinical Research Physician**

**Non-Communicable Disease Surveillance at BRAC James P Grant School of Public Health, Dhaka, Bangladesh** **2019-2020**

**Project:** *Non-Communicable Disease Surveillance and South Asian Biobank*

**Research Focus:**

Population-based surveillance of non-communicable diseases (NCDs) and establishment of a standardized biobank to support epidemiological and translational health research in South Asia.

**Key Responsibilities and Research Contributions**

- Managed surveillance site operations, coordinating large-scale field implementation of non-communicable disease surveillance activities in accordance with standardized research protocols.
- Led multidisciplinary field teams responsible for participant recruitment, epidemiological data collection, data management, and quality assurance.
- Supervised field laboratory operations, including biological specimen collection, processing, transportation, storage, and documentation in compliance with biobanking and biosafety standards.
- Ensured data quality through routine monitoring, protocol adherence, verification of case records, and implementation of quality control procedures.
- Coordinated field logistics and communication among physicians, laboratory personnel, epidemiologists, and research staff to ensure efficient project implementation.
- Contributed to the generation of high-quality epidemiological datasets supporting NCD research and the development of the South Asian Biobank.

### **Research Methods & Skills**

- Population-based epidemiological surveillance
  - Non-communicable disease (NCD) research
  - Biobank establishment and biological specimen management
  - Field epidemiology and surveillance systems
  - Clinical research coordination
  - Data quality assurance and research data management
  - Good Clinical Practice (GCP) and research ethics
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## **Professional Experience**

**Medical Officer – Ministry of Health Bangladesh**

**2020 – 2025**

Project : **Data-driven supervision of district health programs.**

Key contributions:

- Led district-level DHIS2 implementation across multiple health facilities.
  - Coordinated surveillance data quality improvement for regional public health reporting.
  - Supported outbreak investigations using digital surveillance platforms.
  - Delivered epidemiological and digital health training to multidisciplinary healthcare teams.
  - Coordinated COVID-19 laboratory data management, report pipelining and analysis at national level.
  - Coordinated mental healthcare program in primary care setting in assistance with WHO's mh-GAP action program.
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## **Publications:**

1. Yunus F, **Das A**, Jalal C, Afsana K, Podder R, Vandenberg A, et al. A Community Trial Examining the Effectiveness of Iron-fortified Lentils to Improve Iron Status Among Bangladeshi Adolescent Girls: Results from a Baseline Survey (P10-099-19). *Current Developments in Nutrition*. 2019;3:nzz034.P10-99-19.
  2. Yunus FM, Jalal C, **Das A**, Afsana K, Podder R, Vandenberg A, et al. Consumption of Iron-Fortified Lentils Is Protective against Declining Iron Status among Adolescent Girls in Bangladesh: Evidence from a Community-Based Double-Blind, Cluster-Randomized Controlled Trial. *The Journal of Nutrition*. 2024;154(5):1686-98.
  3. Yunus F, Jalal C, **Das A**, Afsana K, Podder R, Vandenberg A, et al. The Efficacy of Consuming Iron-Fortified Lentils on Body Iron (Fe) Status in Bangladeshi Adolescent Girls: A Sustainable, Food-Based Solution to Iron Deficiency. *Current Developments in Nutrition*. 2021;5:700.
  4. Parray AA, Yadav UN, **Das A**, Ali ARMM, Mollick S, Saha S, et al. Ensuring the global COVID-19 vaccine equity: Universal vaccine access strategy in the context of low and-middle-income countries. *Global Public Health*. 2022;17(4):614-21.
  5. Mazumder H, Hossain MM, **Das A**. Geriatric Care during Public Health Emergencies: Lessons Learned from Novel Corona Virus Disease (COVID-19) Pandemic. *Journal of Gerontological Social Work*. 2020;63(4):257-8.
  6. Mondal RN, **Das A**, Islam MF, Podder P, Pramanik S, Rani M. Prevalence of NCD Risk Factors Among the Adult Family Members of Students of School (Phase – A). *Journal of Medicine*. 2019;21(1):8-13.
  7. Yunus FM, Khan S, Khanam F, **Das A**, Rahman M. Summarizing the recommendation of arsenic research during Millennium Development Goals (MDGs) era in Bangladesh-future directions for the Sustainable Development Goals (SDGs). *Groundwater for Sustainable Development*. 2019;9:100265.
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## **Technical Skills**

### **Health Informatics:**

- Programming: Python, SQL, Git, Jupyter, VS Code
  - Standardization and Interoperability: OpenEHR, HL-7 FHIR, SNOMED CT, DHIS-2
  - Informatics Architecture: Requirement Engineering, System Design, UML Modeling, Mobile Health Applications, CLIPS- rule based production system.
  - Clinical Applications: Clinical Decision Support System (CDS) tools, Telemedicine
  - Data Analysis: Python, SPSS, R, EpiInfo, GIS: QGIS
  - Data visualization: Python, Power Bi
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## **Teaching & Capacity Building:**

- Mentored Field Epidemiology Training Program fellows for their fellowship projects on Disease Surveillance, Outbreak Investigations and Evaluation of Public Health Program
  - Conducted training on disease surveillance for the Medical Doctors, Nurses and Statisticians working in the secondary care hospitals in Bangladesh.
  - Developed training modules for epidemiology workforce in District Disease Surveillance Unit in Bangladesh.
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## **Grants and Scholarships**

- **Swedish Institute Scholarship for Global Professionals** 2025–2027  
Government of Sweden
  - **Prime Minister’s Award** 2024  
Prime Minister’s Office, Government of Bangladesh
  - **University Grant Commission Research Grant** 2021  
Prime Minister’s Office, Government of Bangladesh
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## **Leadership & Voluntary Service**

- Cohort Representative – Field Epidemiology Training Program
  - National Delegate – WHO Mental Health Workforce Training
  - Secretary – SANDHANI National Eye Donation Society
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## **Certifications**

- Certified Field Epidemiologist – US CDC / EMPHNET
  - International Mental Health Workforce Training – WHO, Thailand
  - CISCO Network Academy Certification of Entry Level Python Programmer.
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## **Languages**

- Bengali- Native
  - English- Professional proficiency
  - Swedish- Basic (A1)
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## **References**

References available upon request