News and Views

Success of Medical Research Unit (MRU)

PROJECT TITLE-1:

The Molecular genetic approach to diagnose primary immune-deficiencies (PIDs) in children attending major hospitals in Dhaka city.

Principal Investigator and Co-investigators(s):

1. PI-Dr. Sudipta Roy, Assistant Professor, Dept. of Pediatrics, Ad-din Women,s Medical College Hospital, 2 Bara Maghbazar, Dhaka 1217.
2. Prof. Mahmuda Hassan (AWMCH), Co-Principal Investigator (Co-PI)
3. Prof. Marium Begum (BAMCH), Co-Investigator (CI)
4. Dr. Farhana Rahman, Associate professor, Ad-din Barrister Rafiq-Ul-Haq Hospital (ABRH), Co- Investigator (CI)
5. Prof. Md. Mahbubul Hoque (DSH), Co-Investigator (CI)
6. Dr. Tania Islam, Assistant professor, ICMH, Co- Investigator
7. Dr. Rahat Bin Habib, Assistant Professor (SSNIMC), Co-Investigator (CI)
8. Dr. Zannatul Ferdous Sonia, Assistant Professor (AWMCH), Co-Investigator (CI)

Area of research: Genetic study and experimental and Translational Medicine (Item #8 of the advertisement in research proposal of MOHFW, No.59.00.0000. 140.19. 215.21.269, dated 9 May 2021). Our interest is Pediatric Genetic Disorder.

Study place/institute:

a. Ad-din Women,s Medical College Hospital (AWMCH), 2, Bara Moghbazar, Dhaka
b. Basundhara Ad-din Medical College Hospital (BAMCH), South Keraniganj, Dhaka.
c. Ad-din Barrister Rafiq-Ul-Huq Hospital (ABRH), Postogola,Jurain, Dhaka
d. Dhaka Shishu Hospital (DSH), Shyamoli, Dhaka
e. Institute of Child and Mother Health (ICMH), Matuail, Dhaka

Aim: To confirm the diagnosis of clinically suspected screening positive PIDs in Bangladeshi children utilizing molecular genetics.

Duration of study: 2 years (includes 1st two months to organize the project and the last two months for data entry/analysis, final report writing, and publication).

Total Cost: 65,00,000 (Sixty-Five lac only)

PROJECT TITLE-2:

Comparison of efficacy of Heated Humidified High Flow nasal cannula (HHHFNC) with Nasal Continuous Positive Airway Pressure (nCPAP): a primary respiratory support in neonates

Principal Investigator and Co-investigators(s):

1. Dr. Sabina Yasmin, Assistant Professor (Neonatology), Ad-din Women's Medical College Hospital, Dhaka.
2. Prof. Md. Abdul Mannan, Professor & Head, Department of Neonatology.
3. Dr. Mohammod Jobayer Chisti: Sr. Scientist, Nutrition and Clinical Services Division Clinical Lead, Intensive Care Unit (ICU) & Consultant Physician, Acute Respiratory Unit (ARI) Ward & Head, Clinical Research, Hospitals, Icddr,b, Dhaka.
4. Dr. Navila Ferdous, Assistant Professor of Neonatology, AWMCH
5. Dr. Parves Anwer, Assistant Registrar, Dept. of Neonatology, AWMCH
6. Dr. Khandakar Razwan Hossain, Resident Medical Officer, Dept. of Neonatology, AWMCH
7. Dr. Sadia Hossain, Resident Medical Officer, Dept. of Neonatology, AWMCH
8. Shanta Islam (Sr. Staff Nurse), Eva Rani (junior Staff Nurse), AWMCH
9. Mst. Tahmina Khatun (Respiratory Therapist), AWMCH
10. Most. Shahana Khatun (Respiratory Therapist), AWMCH

Area of research: Modernizing current health delivery system including updating health administration- Topic no. 11 on the advertisement in research proposal from MOHFWNo.59.00.0000.140.19.215.21.269, dated 09.05. 2021. Our interest is on: Comparison of 6 efficacy of Heated Humidified-High-flow nasal cannula (HHHFNC) with nasal Continuous Positive Airway Pressure (nCPAP): a primary respiratory support in neonates.

Study place/institute: Ad-din Women,s Medical College Hospital (AWMCH), 2, Bara Moghbazar, Dhaka

Aim: To determine whether HHHFNC is non-inferior to NCPAP in avoiding treatment failure when used as early non-invasive respiratory support (NIRS) for newborns.

Duration of study: One and half years (includes 1st month to organize the project and the last 2 months for data entry/ analysis, final report writing and publications

Cost: 40,00,000 (Forty lac only).

Dr. Sudipta Roy and Dr. Sabina Yasmin: The two Assoc. Profs who achieved PM-initiated MOHFW's 2021-22 IHSRD Research Award through our medical research unit.