

Research Work: 2015-2016

1. Economic Burden of Type-2 Diabetes Mellitus in a Selected Bangladeshi Population with Particular Focus on Nutrition Related Costs.
2. Burden of Dental Diseases in Patients with Type 2 Diabetes Mellitus: Bangladesh prospect
3. Cost-effectiveness Analysis of Screening for Retinopathy in patients with type 2 diabetes Mellitus
4. Cost-effectiveness analysis of medical intervention in patients with early dialysis of diabetic nephropathy in a tertiary care hospital in Bangladesh
5. Cost-effectiveness analysis of medical intervention in patients with early dialysis of diabetic retinopathy in a tertiary care hospital in Bangladesh
6. Prevalence of cardiovascular risk factors in Bangladesh and estimated cost of a treatment strategy
7. Cost of diabetes and its complications, a multi – centric study
8. Chandra Rural Diabetes Study
9. Diabetes Prevention Intervention Study (DPIS)
10. GIFTs Mother and Child Health Study
11. Screening for diabetes and related cardiometabolic risks at work places in Bangladesh
12. Knowledge and Care regarding GDM among Bangladeshi Population
13. Knowledge Attitude and Practice (KAP) among Physicians Before and After Distance Learning Program (DLP) in Bangladesh
14. Awareness and Knowledge of diabetes and related NCDs among Garments workers in Bangladesh through Micro Health Insurance Program
15. Glycemic index of two varieties of rice
16. Strengthen Primary Care Service in Bangladesh
17. Pre-conception care through religious leaders (Kazis)

18. Empowerment of the Primary Health Care Physicians through Early Detection and Monitoring of Diabetic Retinopathy and its Impact on Diabetes Care
19. Screening of diabetes and related cardiometabolic risks among Aga Khan community in Dhaka, Bangladesh
20. Risk Factors and Pregnancy outcomes among gestational diabetic mothers: A hospital based case control study in Bangladesh
21. Collaboration with Telenor and CT Health Ltd, Bangladesh
22. Changes in Lipid Profile After Renal Transplantation
23. Infectious complications in renal transplant recipient during first year
24. Immediate post transplant response of patients to Ciclosporine & Tacrolimus based immunosuppressive therapy.
25. Response and role of renal transplant recipients to Induction therapy with basiliximab.
26. 10 years of Live Related Donor Renal Transplant: BIRDEM Experience.
27. Comparison of different estimating equation for prediction of Glomerular filtration rate in Kidney donors.
28. Attitude and knowledge about kidney transplantation and kidney donation among Bangladeshi population from different socio-economic and educational status.
29. Knowledge and attitude of Bangladeshi physicians about organ donation
30. Donor factors influencing the outcome of kidney transplant recipients of Bangladesh- Experience of a tertiary care hospital
31. Causes of thrombocytopenia in kidney transplant recipients in immediate post-transplant period and its influence on outcome of allograft: BIRDEM General Hospital Experience.
32. A research project with the Nippon Dental University, at Tokyo, Japan- Relations between socio-economic and outdoor patients about control of diabetes in Bangladesh.
33. Diabetes management and orodental diseases at BIRDEM
34. Dental diseases among the diabetic patients – at BIRDEM.
35. Prevalence of Hepatitis B & C virus in Dental Patients: BIRDEM Experience.

36. Oral Health Status of diabetic pregnant woman.
37. C-Reactive protein values and periodontal disease in diabetes & Non-Diabetes.
38. White lesions in the oral cavity among diabetes and Non-diabetes: BIRDEM experience.
39. Oral Ulcers in Diabetes & Non-Diabetics.
40. Glycaemic Status among patients attending Dental out patients department in BIRDEM Hospital.
41. Tobacco use among diabetes- BIRDEM Profile from July, 2013.
42. Smoking cessation intervention program and its outcome August, 2016.
43. Effect of Arsenicosis on cutaneous malignancy.
44. To detect the internal cause of urticaria.
45. To find out the pattern of skin diseases attended in our skin OPD
46. To find out the pattern of skin lesions in CKD patients attended in our skin OPD
47. Prevalence of anti-CCP antibody in Bangladeshi rheumatoid arthritis patients and its relation with severity of disease.
48. Etiology of Electrolyte Imbalance in Hospitalized Diabetic Patients
49. Knowledge of diabetes, its treatment and complications among diabetic patients.
50. CA-125 as a marker of disease activity in tuberculosis.
51. Value of pleural fluid ADA in exudative pleural effusion.
52. Melioidosis in Bangladesh.
53. Deceptive presentations mimicking MTB.
54. Association of NS1 antigen and early detection of Dengue fever.
55. Pattern of dyslipidemia among hospitalized type 2 diabetic patients.
56. Etiology of pleural effusion in CKD patients.
57. Effects of ACE Inhibitor and Angiotensin receptor blocker on proteinuria and renal function in patients with type2 diabetes with overt nephropathy.
58. Role of ACEI and ARBs in Acute Renal failure in diabetic patients.

59. Star Fruit induced AKI.
60. CAPD vs Haemodialysis in elderly diabetic patients with LV dysfunction.
61. Role of ACEI , ARB & DRI in Advanced CKD in Diabetic Patients
62. Characteristics Of Patients Admitted at BIRDEM with Kidney Diseases
63. Nondiabetic Kidney Disease in Diabetic Patients without Retinopathy.
64. Comparison of different cardiac enzymes in CKD patients with Coronary Events.
65. Comparison of aetiology and outcome of AKI between diabetic and non diabetic patients.
66. Comparison of aetiology and outcome of AKI between ICU and non ICU patients.
67. Pattern of electrolyte abnormalities of patients admitted with AKI.
68. Comparison of quality of life of patients on ESRD on Haemodialysis and CAPD.
69. AKI and uric acid.
70. Knowledge and attitude towards haemodialysis of ESRD patients.
71. Pattern of UTI ,causative organism , sensitivity pattern and their management among diabetic patients.

72. Depressive illness on ESRD patients on dialysis.
73. Lipid abnormalities in CAPD patients.
74. Impact of A-V fistula on cardiovascular system.
75. Does conservative management of emphysematous pyelonephritis can salvage the Kidney?
76. Cause, management and outcome of glomerulonephritis in diabetic population.
77. Outcome of newly declared ESRD patients – a prospective study.
78. Calcium, Phosphate& PTH status in patients with CKD stage 3-5 not yet on dialysis.
79. Association of glycemia status (HbA1C) with DEXA scan in osteoporosis in Diabetic patients.- Dr Rushda Sharmin, guided by Prof Z A Latif
80. Clinical, socioeconomic and life style parameter associated with erectile dysfunction among diabetic men attending at BIRDEM General Hospital. - Dr Imtiaz Mahbub, guided by Prof
81. High risk foot among Type-2 Diabetic Patients in BIRDEM General Hospital
82. Effect of thyroid hormone replacement on general well being and lipid profile of hypothyroid patients
83. Pattern of infection among diabetic people admitted in hospital

84. Frequency of Hypoglycemia in emergency department of a tertiary care hospital and factors associated with hypoglycemia in nonadmitted patients
85. An observational study Pattern of diabetes management among the diabetic patients attending at NHN's in Dhaka city
86. An observational study Pattern of diabetes management among the diabetic patients attending at diabetic centers outside Dhaka
87. Pattern of diabetes management in OPD, BIRDEM
88. Impact of severe hypoglycemia on cost & quality of life among diabetic patient admitted into BIRDEM Hospital- An observational study
89. Pattern of diabetes management among the diabetic patients attending at NHN's in Dhaka city-An observational study
90. Pattern of diabetes management among the diabetic patients attending at diabetic centers outside Dhaka
91. Pattern of diabetes management in OPD, BIRDEM
92. Impact of severe hypoglycemia on cost & quality of life among diabetic patient admitted into BIRDEM Hospital. Risk factor analysis of patients with recurrent stroke.
93. Stroke registry Observations from a hospital based stroke registry in Bangladesh

94. Infection Control & Antibiotic sensitivity pattern Lactate in sepsis Intravascular complication of CVC line
95. NT pro BNP level in sepsis Basal cortisol level in critically ill patient
96. Impact of hypomagnesaemia in critically ill patient
97. Chief Investigator of the ongoing research work “Attitudes and Practices among the Bangladeshi Physicians towards Biomedical Research”
98. Co-Chief Investigator of the research work “Sick euthyroid syndrome & ICU mortality”
99. Chief Investigator of the ongoing research work “Admission pattern in BIRDEM ICU and its influence on mortality”
100. Echocardiographic assessment of cardiac dysfunction in maintenance hemodialysis patient
101. Correlation of ischemic symptoms with ETT findings in Type-2 Diabetic patient
102. A Study on Pulmonary Hypertension in Type-2 Diabetic Patient, Demographic, Clinical Profile and Associated Comorbidities
103. Incidence of Hypertension and associated Cardiovascular and Metabolic status in a group of official population of Bangladesh
104. Management of Rapidly Growing Hemangiomas in Infants with Oral Propranolol.
105. The Effect of Pulmonary Surfactant on Mortality in Neonates Affected by Respiratory Distress Syndrome: A Study from an Urban Hospital in Bangladesh.
106. A Novel Method of Circumcision Causing Less Pain and Better Outcome.
107. Evaluation of Fournier’s gangrene severity index and microbiology in 24 patients- Experience in BIRDEM Hospital.
108. Effectiveness of plant derived stem cell in chronic diabetic foot ulcer in contrast to conventional therapy.
109. Antimicrobial Susceptibility Pattern in Diabetic Foot Ulcer, an Experience from BIRDEM General Hospital
110. Patient with Diabetic foot correlation with diabetic retinopathy, Microbiological study of multidrug resistance bacterial study of diabetic patients.

111. Post operative fluid infusion of electrolyte balance in laparoscopic Cholecystectomy patients
112. Efficacy of low daily dose of Tadalafil on LUTS on BPH.
113. Incidence and relationship of comorbidities with early complication and outcome of TURP.
114. Diagnosis of early glaucoma with RNFL analysis by OCT in glaucoma suspects cases.
115. OCT measurement of macular thickness nerve fiber layer in normal and glaucomatous eye.
116. Prevalence and risk of Diabetic retinopathy in a Bangladeshi population: a population based study.
117. Association between sub clinical hypo thyroidism & PDR in type 2 DM patients.
118. Prevalence of normal tension Glaucoma (NTG) in the patient population attending in ophthalmology out patient department of tertiary care hospital.
119. Role of Glycosylated haemoglobin (HbA1c) on diabetic retinopathy in type 2 diabetic patients.
120. Comparative study between Epidural levobupivacaine and bupivacaine with fentanyl in major abdominal surgeries for type – 2 Diabetic patients.
121. Comparative study between IV paracetamol and IM pethidine for post-operative analgesia in laparoscopic cholecystectomy patient.
122. A comparative study between 1.5 ml only 0.5% bupivacaine with 1.5 ml 0.5% bupivacaine-fentanyl in SAB for lower abdominal surgery in moderate to severe cardiac compromised patient.
123. General anaesthesia with laryngeal mask for complicated diabetic patient (ASA IV), A better option than ordinary general anesthesia.
124. Epidural Blockade Modifies Perioperative Glucose Production
125. Perioperative management of Diabetic patient
126. Pattern and risk factors of retinopathy in hospitalized type 2 diabetic patients
127. Pattern of lipid profile in patient with CKD
128. Dialysis practice-pattern of ESRD patient on maintenance haemodialysis

129. Incidence of infection, sensitivity pattern, complication and outcome in CKD patients of Bangladesh: An experience of tertiary care hospital .
130. Incidence of infection in haemodialysis central venous catheter in BIRDEM General Hospital
131. Echocardiographic assessment of cardiac dysfunction in maintenance haemodialysis patients.
132. Care giver's burn out of attendants of Bangladeshi ESRD patients
133. Nephrologist's burn out: Fact or fiction
134. Renal involvement and its pattern during diagnosis of rheumatological diseases in different age group
135. Pattern of renal involvement and treatment response during diagnosis of connective tissue diseases in paediatric age group patients
136. Efficacy of Cystatin C as early predictive bio-marker of acute kidney injury in contrast induced nephropathy
137. Factors associated with warrant of ICU care in patients of rhabdomyolysis with renal injury
138. Prevalence of Microalbuminuria in first degree relatives of CKD or ESRD patients
139. Study of thyroid disorder among type-2 diabetic patients attending BIRDEM General Hospital.
140. Evaluation of 25(OH) D status in type-2 diabetes mellitus and its relation to glycemic control among the patients attending in a tertiary care hospital
141. Association between serum level of vitamin-D and lipid profile in type-2 diabetic patients attending BIRDEM Hospital, Dhaka
142. Incidence of gestational diabetes mellitus and associated risk factors among Bangladeshi pregnant women attending BIRDEM General Hospital
143. A study of salivary acetylcholine concentration in patients with dementia among the elderly population in Dhaka city of Bangladesh
144. Biochemical and Serological variation among type 2 Diabetes mellitus patients with Rheumatoid arthritis and without Rheumatoid arthritis

145. Assessments of serum Vit D 3, D2 and Total Vit D concentration among diabetic patient attending BIRDEM General Hospital
146. Assessment of Lipid profile Among Bangladeshi Children and Adolescents with type 1 Diabetes
147. Levels of serum hsCRP and its association with lipid profile in type2 diabetic patients attending a tertiary care hospital in Bangladesh
148. Relationship between uric acid and blood pressure in type 2 Diabetes mellitus patients
149. Microalbuminuria in children and adolescents with diabetes mellitus in a tertiary care hospital in Bangladesh
150. Recognition of Diploma in Blood Transfusion & serology (DBS&T) course Recognition of FCPS (Transfusion Medicine) Training (on process)
151. Single Donor Cell Separator Apheresis Platelet has been started
152. Out Door Transfusion Medicine practices is running smoothly at Room No -257 for the patient of blood diseases and blood transfusion
153. 1st Clinical OPD in Transfusion Medicine in Bangladesh since 2006
154. Bone Marrow aspiration study, till now completed 81 in number, since June, 2015.
155. Ongoing research activities: 11 in number, starting from 2014.
156. Publication of blood group directory of BIRDEM General Hospital staff
157. Department giving laboratory facility of the Project entitled “Integrated Approach to Increase Access to TB Service for Diabetic Patients” - a project of BADAS and Challenge TB program, USAID, Bangladesh.
158. Studies on systemic and local immune responses to **Salmonella enterica** serovar Typhi by prime boost strategy with different preparations of *Salmonella* antigen (s).
159. “Study on age specific sero-prevalence of *Helicobacter pylori* infection in rural Bangladesh”
160. Study on the diversity of *candida* sp. causing infection in a tertiary care hospital using colorimetric method.
161. Relation of islets cell autoantibodies with beta cell function in type II diabetic patients.

162. *Hemato-immunology:*

163. Detection and identification of red cell alloantibodies and autoantibodies in repeatedly transfused patients.
164. Interleukin-6, interleukin-8, procalcitonin and C-reactive protein as early diagnostic markers of systemic inflammatory response syndrome and sepsis.
165. Association Between Serum Level Of 25(OH)D And Lipid Profile In Type 2 Diabetic Patients Attending BIRDEM General Hospital, Dhaka
166. Evolution Of 25(OH) D Status And Its Relation To Glycaemic Control Among The Patients With Type2 Diabetes Mellitus Attending A Tertiary Health Care Hospital
167. Study of Salivary acetylcholine concentration in patients with Dementia among the elderly population in Dhaka city of Bangladesh **(Completed)**
168. Comparative study of Glycemic Status and renal function tests of patients taking Metformin, Metformin & Gliclazide.
169. Comparative study of type 2 Diabetes Mellitus Patients taking metformin & metformin combination (metformin+ vildagliptine) regarding control of blood glucose & status of renal function.
170. Frequency of Microalbuminuria in children and adolescents with diabetes mellitus in a tertiary care hospital of Bangladesh.
171. Relationship between uric acid level and BP in type 2 DM patients attending BIRDEM General Hospital.
172. Assessment of lipid profile among the Bangladesh children and adolescents with type1 Diabetes Mellitus.
173. Study of biochemical parameter in Rheumatoid Arthritis with type 2 Diabetes Mellitus.
174. Association between dyslipidemia and GDM In 24th to 28th week of pregnancy in BIRDEM General Hospital.
175. Clinical service audit at first 72 hours care of admitted patients at BIRDEM General Hospital
176. Patients' opinions of their experiences during stay in BIRDEM General Hospital
177. The study of "The Prescribing Pattern" in the outdoor of BIRDEM General Hospital.
Principal Investigator

178. "Detection Burkholderia pseudomallei in the soil samples from different areas of Bangladesh using multiplex PCR based molecular method" Funded by BMRC