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## SPECTRUM OF ACUTE KIDNEY INJURY IN CRITICALLY ILL PATIENTS IN MEDICAL ICU: A SINGLE CENTER HOSPITAL-BASED STUDY FROM NORTH-EASTERN INDIA

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**Introduction:** Acute kidney injury (AKI) is a common complication in hospitalised patients, the incidence of which has been increasing steadily in the recent years. Diabetes mellitus has been recognized as an important risk factor for AKI. However, there are only a few studies that have particularly addressed the topic "AKI in diabetes mellitus." Therefore, our aim is to study the causes and outcome of acute kidney injury (AKI) in type 2 diabetes mellitus (DM).

**Methods:** This single-centric prospective study was conducted at the Medicine department, Silchar Medical College for a period of 1 year i.e. from January 2017 to December 2017. All adult type 2 diabetic patients presenting with AKI were included in the study. Acute kidney injury was classified according to Kidney Disease Improving Global Outcomes criteria. The treatment options were conservative and dialysis. All patients were followed for a period of 4 weeks for outcome of AKI i.e. recovery, dialysis dependency and death.

**Results:** A total of 105 type 2 diabetic patients with AKI were enrolled during the study period. The most common cause of AKI was found to be sepsis (52.4%) and the most common focus of infection was urinary tract infection (65.5%). The percentage of patients requiring dialysis was 30.5%, while 69.5% of the patients were managed conservatively. Eventually 78.1% of the patients recovered, 11.4% became dialysis dependent, and 10.5% died. Among those who expired, all underwent dialysis and sepsis was the leading cause of death in the patients.

**Conclusion:** Most common causes of AKI in our study was found to be sepsis mainly due to urinary tract infection. AKI recovered in 78.1%. Outcome was favourable in those who did not require dialysis.

**Key Words:** AKI, diabetes mellitus, infection, dialysis.

## BIOGRAPHY

Kallol Bhattacharjee passed his MBBS examination from Gauhati University, Guwahati, Assam, India in 1986 at the age of 22 years and did his post-graduation in internal medicine in 1990. He has been working in the department of medicine in Silchar Medical College and Hospital, Silchar, Assam, India in various capacities since 1992 and presently working as associate professor of the department, incharge of the medical ICU and deputy superintendent of the hospital. He has published approximately 30 original research papers in various national and international journals and in January 2017, he was conferred fellowship by the Indian College of Physicians, the academic wing of the Association of Physicians of India. He has dedicated his service towards the cause of ailing humanity especially in the field of Nephrology with special interest in AKI.

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