**Original article:**

**Clinical profile of acute kidney injury in intensive care unit in tertiary care centre**

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**Abstract**

**Introduction:** Acute Kidney Injury is a common medical problem in ICU. Delay in diagnosis is associated with increased mortality. Variety of conditions can lead to AKI. Many factors can influence the outcome of AKI. This study was done to find the predictive factors related to outcome of AKI. This study was done to analyze the common causes and clinical manifestation of Acute Kidney Injury in I.C.U. patients.

**Methodology** : A total number of 50 cases of acute kidney injury in ICU of tertiary care centre, who met the inclusion criteria were studied . All these patients included, were studied with a detailed history, general physical examination, systemic examination and investigations whose blood urea & serum creatinine [ >2 ] increases above normal.

**Results** : This study showed Male to Female ratio of 1.27 : 1. Maximum incidence was seen > 65 year age group. Mortality was high in 45-64 (12.5%) age group. The study showed various etiological factors associated with AKI like septicemia, AGE ,CCF, and Surgical causes are like Renal stone, post operative period ,stricture urethra, BPH. Common complications were Hyprkalemia, Pulmoary edema, Encephalopathy, Multi organ dysfunction and metabolic acidosis. However septicemia was the predominant cause of AKI in our study and Multi organ failure was commonest cause of death. Out of all cases 78% patients had medical causes, 18% patients had surgical & 4% had obstetrical causes of AKI.

**Conclusions**: In this study about 92% patients were survived. 76% of patients were treated conservatively and 24% patients underwent haemodialysis .We observed that early diagnosis and early intervention were probably responsible for good survival rate.

**Keywords:** Heamodialysis, Glomerular filtration rate