

Abstract

Incidence of Acute Kidney Injury and its correlation to short time mortality rate of intensive care unit admitted patients in Ardabil imam Khomeini hospital over a one year period from 2015 to 2016

Background & Objectives: Acute kidney injury (AKI) is common and carries a high Mortality rate in the Intensive care unit admitted patients. Mortality rate in the Intensive care unit admitted patients was detected 5% to 35%. We determined the incidence of Acute kidney injury (AKI) and Mortality rate in Intensive care unit admitted patients. This study surveyed risk factors of Mortality rate and incidence of Acute kidney injury (AKI) .

Materials & Methods: This is cohort study. In this study was taken in 900 patients from 2015 to 2016. Information was collected in questionnaire. Information was analysed with SPSS21.

Results: A total of 900 patients were enrolled in the study. In This study 504 patients (56%) were male and 396 patients (44%) were female. Mean age was $54/7 \pm 8/2$. Incidence of Acute kidney injury (AKI) was 37% and 58/25% of patients with AKI died. Incidence of Acute kidney injury (AKI) had meaningful correlation with systolic blood pressure (less than 100 mmHg) ($p < 0/001$) and AKI in ventilation needful patient ($p < 0/001$) and underlying disease, another organ dysfunction, Age More than 60 years old, serum Na level disorder, had meaningful correlation with rate of Mortality ($p < 0/05$). Serum K level disorder ($p = 0/48$) and kind of prescription drugs ($p = 0/18$) and sexuality ($p = 0/24$) had not meaningful correlation with Mortality rate.

Conclusions: More attention of the Acute kidney Injury (AKI) in the Intensive care unit admitted patients cause to decrease of Mortality rate and cause to decrease of complication of AKI... This study showed that preserve of systolic blood pressure in acceptable range, treatment of Anemia, careful Monitoring in fluid and electrolyte status and function of important organs as cardiac, lung, liver and kidney and suitable treatment well to be effective in prognosis of the patients.

Key words: Intensive care unit, Mortality, Acute kidney injury