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Acute Kidney Injury: do the patients recovery their renal function after a cardiac surgery?.

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The incidence of acute renal injury (AKI) affects up to 40% of patients during hospitalization, due to several factors, including their own submission to a surgical procedure, as well as the use of mechanical ventilation and prolonged cardiopulmonary bypass. In this way it is our objective to identify if the recovery of the renal function occurs after complications in the postoperative period following cardiac surgery. To answer the objective, a quantitative, retrospective, longitudinal study was performed with 62 patients. Data were collected using a questionnaire. The chi-square test was used for statistical analysis, at a significance level of $p < 0.05$. The results showed that 71% of our patients developed AKI in the postoperative period following cardiac surgery, the use of noradrenaline ($p = 0.002$) such as use of mechanical ventilation ($p = 0.02$) contributed significantly to the occurrence of acute renal injury. After discharge from the Intensive Care Unit (ICU), approximately half of the patients (40.5%) recovered their renal function. It is important to emphasize that patients with acute kidney injury may develop with Chronic Kidney Disease (CKD), the percentage of renal recovery may be an indicator of greater or lesser risk of future aggravation, besides contributing to the adoption of early preventive measures and reduction of risk of death. Our findings should be considered, since patients who develop AKI in the postoperative period of cardiac surgery are at risk of progressing, even after hospital discharge, to CKD.