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CHARACTERISTICS AND OUTCOMES OF HOSPITALIZED COVID-19 PATIENTS WITH ACUTE KIDNEY INJURY

Alrik Earle Escudero, Filoteo Ferrer, Christine Pascual
Department of Internal Medicine-Nephrology, Makati Medical Center, Philippines

Objectives: The study investigated the incidence and severity of Acute Kidney Injury among hospitalized COVID-19 patients and association of the degree of Acute Kidney Injury with regards to the severity and outcomes of COVID-19 patients

Methods:

This was a single-center cross-sectional study retrospective chart review of COVID-19 patients who developed Acute Kidney Injury. Descriptive statistics were used to summarize the general and clinical characteristics of the patients. Frequency and proportion were used for categorical variables. Shapiro-Wilk test was used to determine the normality distribution of continuous variables. Continuous quantitative data that met the normality assumption was described using mean and standard deviation, while those that did not were described using median and range. Continuous variables which are normally distributed were compared using the One-way ANOVA

Results: A total of 1441 COVID-19 in patients from March 1, 2020 to March 1, 2021 were reviewed, 59 of which were excluded. Among the adults with COVID-19 who developed stage I (60%), stage II (10%), or stage III (30%) AKI. The incidence of acute kidney injury among COVID-19 in-patients at Makati Medical Center was 13.10% (95% CI 11.36% to 14.99%). Among the 181 patients, 79 (43.65%) had died (95% CI 36.30-51.20). The mortality rate is 22.02% for Stage I, 50% for Stage II, and 85.19% for Stage III.

Conclusions: In conclusion, the study demonstrated that the incidence of AKI in hospitalized COVID-19 patients was 13.1% (95% CI 11.36% to 14.99%), which was lower than previously reported. The development of AKI has a direct correlation with the degree of infection. Among patients who developed AKI, 20% required renal replacement therapy. Overall development of AKI increases the risk of mortality among hospitalized COVID-19 patients. The stage of AKI has a direct correlation with regards to mortality and has an indirect relationship with regards to renal recovery.

Table 4. Outcomes in COVID-19 patients who developed Acute Kidney Injury