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Influence of creatinine clearance variation on the outcome of patients with acute kidney injury

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Objective: To verify if creatinine clearance variations interfere with the outcome of the patient with acute kidney injury (AKI).

Methods: This was a prospective, quantitative, cohort study conducted at the medical clinic of a public hospital in the Federal District. The questionnaire was used to collect clinical and laboratory data. The AKI was defined as an increase of serum creatinine (sCr) ≥ 0.3 mg/dL increase in 48 hours or increase of 1.5 to 1.9 times of your initial/baseline value within seven days, according the Kidney Disease Improving Global Guidelines (KDIGO). It's considered significant $p \leq 0.05$.

Results: In 294 patients evaluated, 85 were identified with AKI, the most part of males (51.8%), with a mean age of 66 ± 14 years, of brown race (56.5%). Individuals with worse renal function (CrCl < 60 mL/min) were predominantly male (57.9%), elderly (median age 74 years), black (73.7%) and bedridden (57.9%). Elderly patients presented greater renal impairment (CrCl < 60 mL/min, $p = 0.05$). Individuals with worse renal function (CrCl < 30 mL/min) evolved more frequently at death ($p = 0.007$).

Conclusion: Fluctuations in the clearance of creatinine are common during hospitalization, however in this study it was found that the individuals with lower value of CrCl (< 30 mL/min) evolved more often to the death against those with CrCl ≥ 30 mL/min. The data can support an adequate management of patients with AKI, providing subsidies for additional measures and individualized intervention strategies, in order to avoid progression, chronicity of kidney disease and mortality of these patients.

Biography

Tayse Tamara da Paixao Duarte completed her Master's degree in Health Sciences from the University of Brasilia (UnB). Since 2013, she is a Professor at the University of Brasilia, Brazil. She is the member of the Group of Integrated Studies and Groups of Research in Technology of Care. Since then, she has presented poster at the international and national congress of cardiology and nephology and has been involved in various teaching projects.

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