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Choosing the best dialysis treatment for critically ill patients with sepsis in a developing country

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Introduction: AKI is a serious problem in critically ill patients with sepsis; in Ecuador it has a prevalence of 10% and a high undocumented mortality rate. The type of renal replacement therapy used is also very discussed in countries with several options. In Ecuador there are no continuous treatments available for patients.

Objective: The aim was demonstrate advantages in AKI treatment between hemodiafiltration with an own scheme vs. intermittent hemodialysis. The primary outcomes were mortality, vasoactive drugs, mechanical ventilation dependence and time of ICU stay.

Results: Cohort and tracing study in ICUs in patients with sepsis and AKI. Two groups undergoing treatment for intermittent hemodialysis GA (n30) vs. hemodiafiltration GB (n21). 51 patients were observed. The general mortality was 54.9%, (63% GA vs. 42.8% GB p=0.09) had no statistical significance. Apache and SOFA index media were 26 and 11 respectively without statistical significance between both groups (p=0.65). Time ICU stay (GA: 18.33, GB: 10.76 p=0.027) vasoactive drugs dependence (GA: 9.77, GB: 4.19 p=0.089) MV dependence (GA: 12.13, GB: 6.62 p=0.036).

Conclusions: HDF showed benefits in vasoactive drugs, MV dependence and ICU stay. The mortality was not statistically significative. We recommended HDF with our scheme for AKI treatment in critically ill patients with sepsis independent of mortality results.

Biography

Dario Xavier Jimenez Acosta MD. Nephrologist Born in 1977, October 03. Medical Doctor at Central University of Ecuador (1994-2001). Nephrologist by Pichincha Medical College, at Eugenio Espejo Specialty Hospital (2002-2007). Did Nephrology mini fellowship at Colorado University, Denver (2007). He is the Past Secretary of Ecuadorian Society of Nephrology (2012-2015), Medical Director of DIALNEF (Critical Nephrology) Quito-Ecuador (2012-actually). Nephrology Chief at Enrique Grace's General Hospital (Ecuadorian Health Public Ministry). One book published (coauthor), 16 paper published..

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