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Validation of the Advanced Chronic Kidney Disease after Acute Kidney Injury Risk Index

Jayson Bayocot, Rialyn Rojo, Jeanne Bayaca

Department of Internal Medicine, St. Luke's Medical Center - Quezon City, Philippines

Objectives: To externally validate the prediction model for advanced chronic kidney disease following acute kidney injury devised by Matthew, James et al in 2017.

Methods: The study is a single-center retrospective validation cohort study and included 186 adult patients who were admitted at St. Luke's Medical Center-Quezon City and had been referred to or admitted by Nephrology service for management of acute kidney injury. The discriminative ability of the predictive model of James, M. et. al., to predict the outcome chronic kidney disease was evaluated using the area under the receiver operating characteristic curve (AUC).

Results: The predictive model had an acceptable predictive ability for chronic kidney disease after AKI with an AUC of 0.75. Based on the study, it has a sensitivity of 75% (57.8- 87.9) and specificity of 70.67% (62.7-77.8).

Conclusions: The prediction model devised by James M. et al was able predict advanced chronic kidney disease following acute kidney injury with a relatively low diagnostic accuracy in the Filipino population.