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Dialysate Rate and Small Solute Clearance in Hospitalized Patients Requiring Intermittent Dialysis

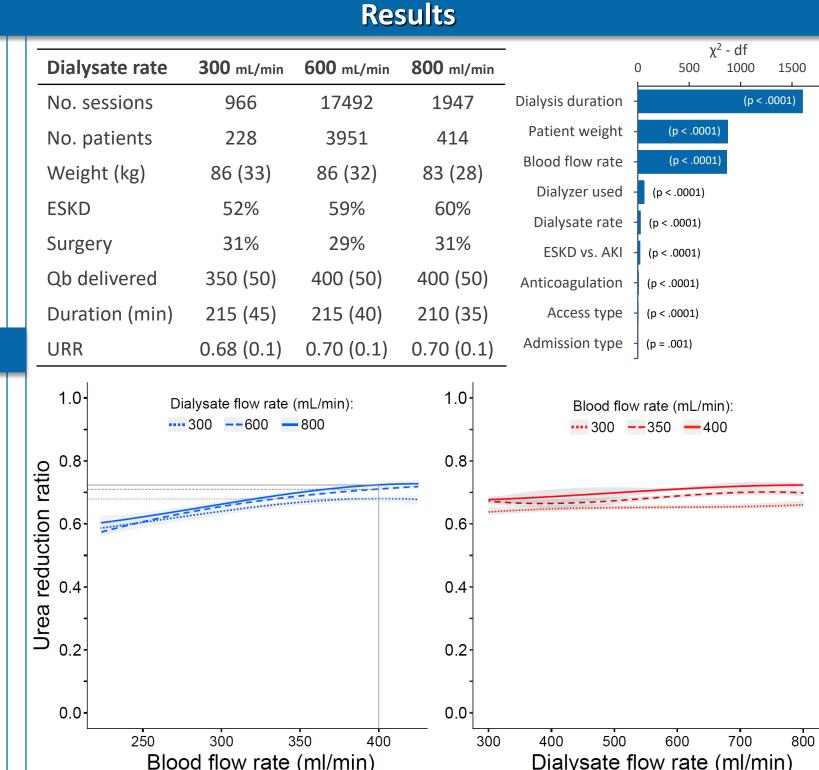
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Background

Conventional dialysis is a water hungry procedure.^{1,2} Savings in consumption and wastage are feasible without compromise in patient care². We studied the determinants of urea clearance in hospital setting.

Methods

Mixed regression modeling was used where patient and hospitalization were considered random effects. Fixed effects included admission, patient and dialysis level characteristics. Risk factor significance was measured by computing the partial chi square statistic within the full model.



	Summary
	Dialysis duration, and achieved blood flow were the most important modifiable factors of delivered URR. An increase in dialysate rate from 300 to 600 mL/min was dependent on blood flow achieved with only modest change in URR (0.024). Similar magnitude of change in URR (0.021) was observed with an increase in dialyzer size.
Conclusion	
	URR goals may be achieved with lower dialysate rates which will result in water and cost savings.
	References
)	 Sehgal AR, Slutzman JE, , Huml AM. JASN, 2022;33(9):1790–5. www.cbsnews.com/news/mississippi-jackson-water- crisis-poses-severe-risk-to-dialysis-patients-it-could- literally-kill-him/ Leypoldt JK, Prichard S, Chertow GM, Alvarez L. Blood Purif. 2019;47(4):369-76.