

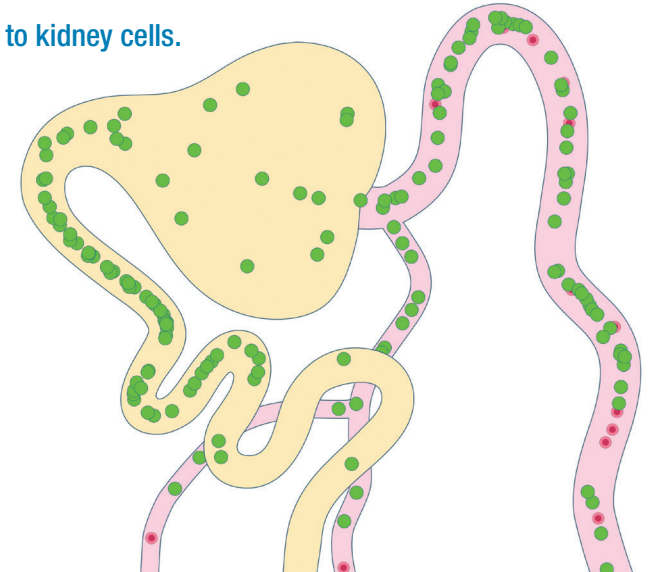
CATH LAB PROCEDURES

- PCI
- CTO
- CHIP
- TAVR
- Other structural interventions

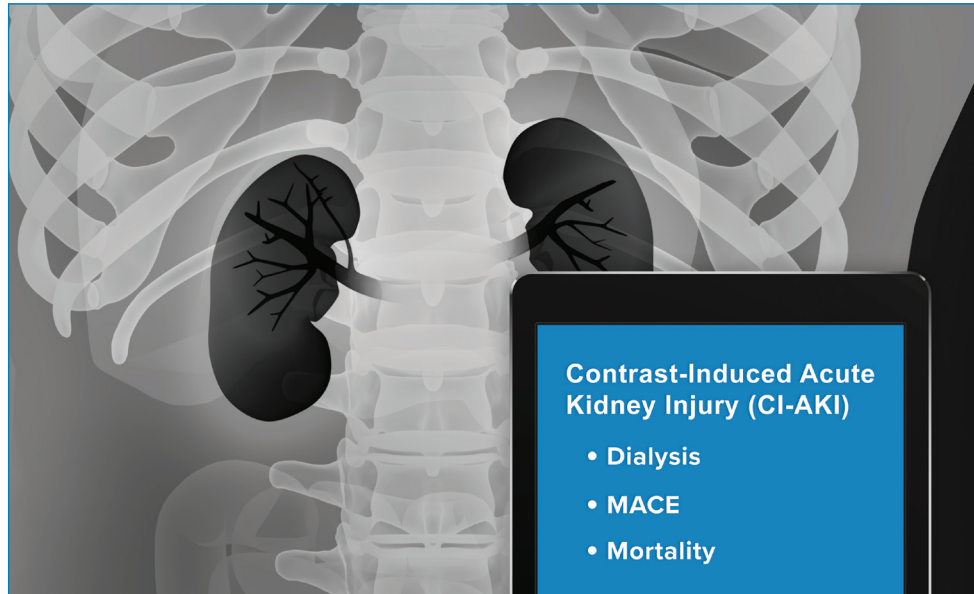


Contrast is directly toxic to kidney cells.

- High viscosity increases impact of toxicity
- Clogging slows filtration rate, blocks oxygen delivery
- Vasoconstriction, diuresis exacerbates effect
- CKD patients have fewer nephrons so face even higher concentration of contrast



- Blood Cell
- Contrast



Contrast-Induced Acute Kidney Injury (CI-AKI)

- Dialysis
- MACE
- Mortality

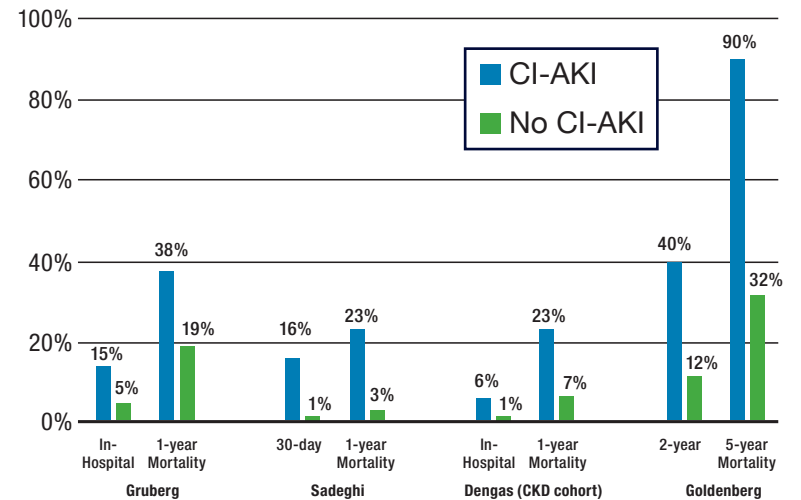
CI-AKI Long Term Impact

Gruberg et al. J. Am. Coll. Cardiol. 2000.

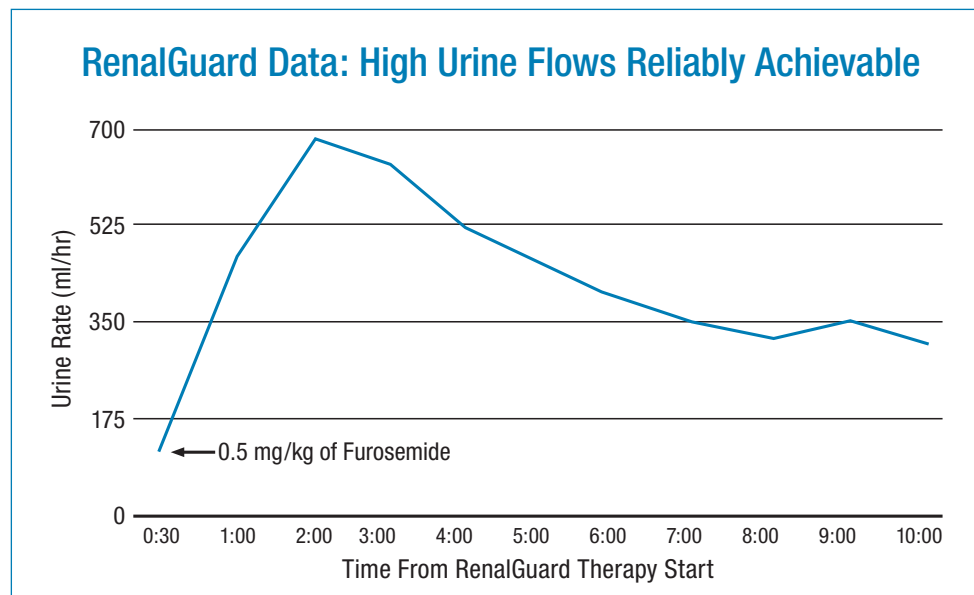
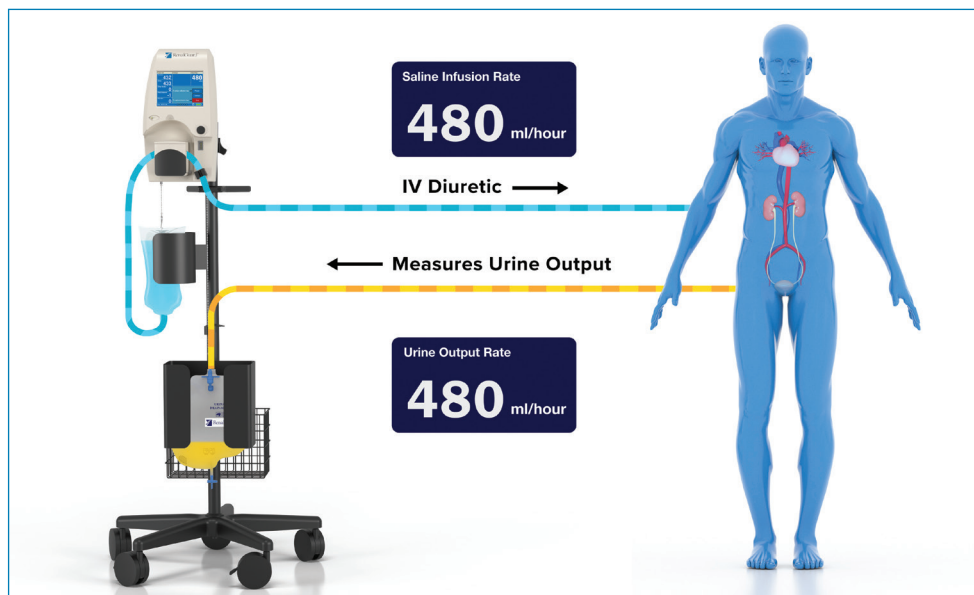
Sadeghi et al. Circulation. 2003.

Dangas et al. Am. J. Cardiol.

Goldenberg et al. Am. J. Nephrol. 2009.



Rise in serum creatinine, even if it returns to baseline, predicts significant increase in mortality.



Clinical Studies

Consistently Positive Outcomes Across 1,500 Patients Studied

CI-AKI Incidence in Prospective Studies

77% Weighted Average Decrease of CI-AKI using RenalGuard in Prospective Studies

