

# Dialyzing Wisely – Care Pathway Resource



## ACUTE KIDNEY INJURY (AKI) RECOGNITION & MANAGEMENT

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### Purpose

This resource is for clinicians in intensive care units. It provides further detail on how to recognize and manage acute kidney injury (AKI). This expands on the “Monitor & Screen for Acute Kidney Injury (AKI)” section of the three Dialyzing Wisely Care Pathways (Adult ICU, Cardiac, Pediatrics) available at the link and QR code below.

### Monitor & Screen for AKI

- 1 Trend serum creatinine and urine output
- 2 Determine staging
- 3 Report results on daily rounds

### AKI Recognition & Management

- AKI is a sudden decrease in kidney function.
- Early clinical recognition is key to providing appropriate management.
- Monitor serum creatinine (SCr) and urine output for early identification of an AKI.

### AKI Screening

- Review SCr daily for patients at risk for AKI.
- Review cumulative urine output every 6 hours.

**Must meet one of the following criteria for a stage 1 AKI (see page two for staging):**



Increase in SCr by  $\geq 26.5 \mu\text{mol/l}$  within 48 hours.



Increase in SCr by  $\geq 50\%$ , which is known\* or presumed to have occurred within 7 days.



Urine output  $<0.5\text{ml/kg/h}$  for 6 hours.

\* Known baseline SCr is the lowest SCr within the last year. Determine baseline SCr with multidisciplinary teams including pharmacists, physicians, and residents as needed.

[References & Resources](#)



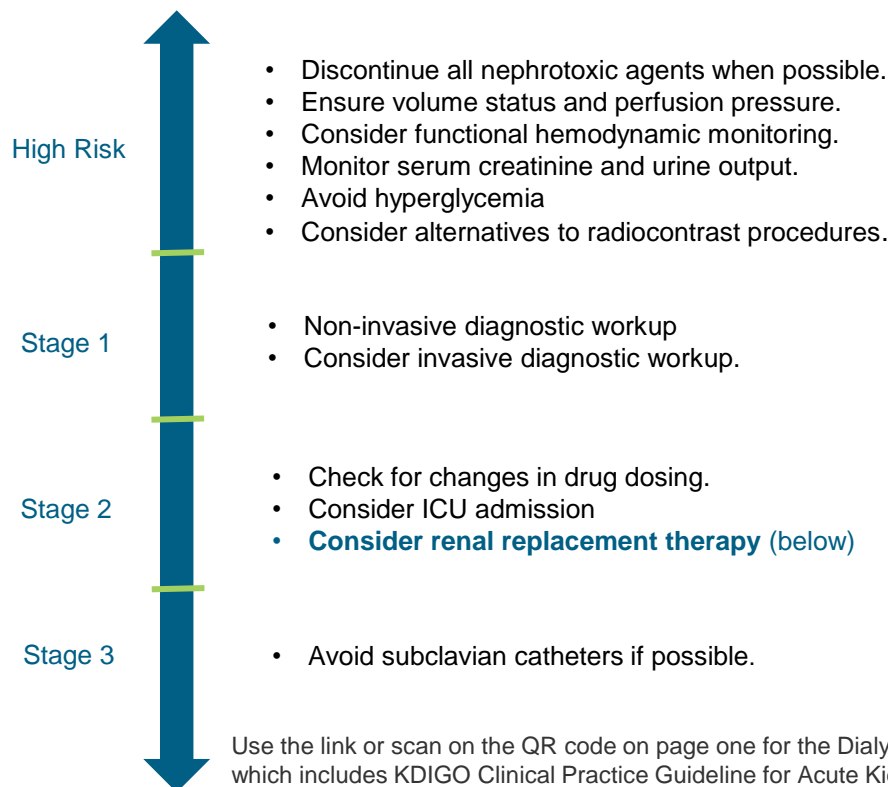


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## AKI Staging

	Serum Creatinine	Urine Output
Stage 1	1.5-1.9x baseline or increase $\geq 26.5 \mu\text{mol/l}$	< 0.5 ml/kg/h for 6-12h
Stage 2	2.0-2.9x baseline	< 0.5 ml/kg/h for $\geq 12\text{h}$
Stage 3	3.0x baseline or increase to $\geq 353.6 \mu\text{mol/l}$ or renal replacement therapy initiation	< 0.3 ml/kg/h for $\geq 24\text{h}$ or anuria for $\geq 12\text{h}$

## AKI Management



## Renal Replacement Therapy (RRT) Initiation

Use the link or scan the QR code for the Dialyzing Wisely Care Pathways (Adult ICU, Cardiac, Pediatrics) to learn more about indications for renal replacement therapy for patients with AKI.

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