

# Renal Replacement Therapy

## Adults:

### → *Dose in patients undergoing renal replacement therapy:*

Hemodialysis, intermittent (thrice weekly): Dialyzable. *Initial:* Administer 50% to 100% of the indication-specific dose. When scheduled dose falls on a dialysis day, administer after hemodialysis. If not administered after hemodialysis, provide a 50% supplemental dose. <sup>[1]</sup>

Peritoneal dialysis: *Initial:* Administer 50% to 100% of the indication-specific dose. <sup>[2]</sup>

CRRT: Drug clearance is dependent on the effluent flow rate, filter type, and method of renal replacement. *Initial:* Administer 75% to 100% of the indication-specific dose. <sup>[2]</sup>

PIRRT (eg, sustained, low-efficiency diafiltration): Drug clearance is dependent on the effluent flow rate, filter type, and method of renal replacement. *Initial:* Administer 75% to 100% of the indication-specific dose. Administer the dose after PIRRT therapy ends on PIRRT days

## Pediatrics:

### → *Dose in patients undergoing renal replacement therapy:*

Hemodialysis: Administer 50% of normal dose once daily.

CAPD: Administer 50% of normal dose once daily.

CRRT: Administer 75% of normal dose once daily. <sup>[3]</sup>

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[ 1 ] - Schusziarra V, Ziekursch V, Schlamp R, Siemens HC. Pharmacokinetics of azathioprine under haemodialysis. Int J Clin Pharmacol Biopharm. 1976;14(4):298-302. [\[PubMed 1002367\]](#)

[2]- Nemecek BD, Hammond DA, eds. Demystifying Drug Dosing in Renal Dysfunction. American Society of Health-System Pharmacists; 2019.

[3]- Aronoff GR, Bennett WM, Berns JS, et al, Drug Prescribing in Renal Failure: Dosing Guidelines for Adults and Children, 5th ed. Philadelphia, PA: American College of Physicians; 2007, p 97, 177.

