



Updated Colistin Dosing Protocol For Adults For Intravenous Administration

Warning: use with extreme caution in **Porphyria, Myasthenia Gravis.**

Loading Dose ¹				
For all patients regardless of renal function and type of dialysis:				
Weight (kg)	≤ 50-53	54 - 61	62 - 70	71 - ≥ 74
Loading Dose ¹	6 MIU	7 MIU	8 MIU	9 MIU
Maintenance Dose (MD)				
Creatinine Clearance	Maintenance Dose ¹		Starting time after Loading dose	Infusion Time
>80 ml/min	5.5 MIU every 12h		12 hrs	15 – 30 mins
70 to <80 ml/min	4.5 MIU every 12h			
50 to <70 ml/min	4 MIU every 12h			
30-50 ml/min*	3 - 3.5 MIU every 12h*			
10-30 ml/min	2.5 MIU every 12h			
<10 ml/min	2 MIU every 12h			
Intermittent HD ² (3-4hrs dialysis session)	Daily 1.5 MIU every 12h + supplemental 1.5 MIU immediately after each HD session Note: HD session should occur toward the end of the dosing interval.		12 hrs	
PD ³	4.5 MIU every 24hr		24 hrs	
CRRT (24 hrs dialysis session) ⁴	On dialysis days: 7.5 MIU every 12h On non-dialysis days: 2 MIU every 12h		12 hrs	
CRRT less than 24 hrs ¹	On non-dialysis days: 2 MIU every 12h		12hrs	
	On dialysis days:			
	6 hrs session	3 MIU every 12h		
	8 hrs session	3.5 MIU every 12h		
	10 hrs session	4 MIU every 12h		
12 hrs session	4.5 MIU every 12h			
16 hrs session	5 MIU every 12h			

*for CrCL < 40 mL/min 3 MIU every 12h; for CrCL ≥ 40 mL/min 3.5 MIU every 12h

Abbreviations: HD, hemodialysis; PD, peritoneal dialysis; CRRT, continuous renal replacement therapy

Preparation for administration:

Reconstitute the contents of each vial with not more than 10ml water for injection or 0.9% sodium chloride (normal saline (NS)). Then dilute the dose with 50 ml NS and swirl gently to avoid frothing, administer dose immediately to avoid contamination and hydrolysis and discard the excess. Infuse over 15-30 minutes.⁵

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References:

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