

Colistin Dosing Guideline

Background:

Colistin is a bactericidal antibiotic that exhibits concentration dependant killing. It is being increasingly used among critically ill patients due to the emergence of Gram negative MDR organisms (i.e., *Pseudomonas aeruginosa*, *Acinetobacter baumannii*, and *Klebsiella pneumoniae*) that are only susceptible to colistin.

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

Adult Dosing:

- Loading Dose: **(All Patient Categories REGARDLESS OF RENAL FUNCTION).**

Body weight	loading dose
over 50 kg	9 MIU
under 50 kg	7MIU

- Maintenance Dose:

Creatinine Clearance	Maintenance dose	Starting time after loading dose
>50 ml/min	4.5 MIU BD	24 HRS
30-50 ml/min	3.5 MIU BD	
10-30 ml/min	2.5 MIU BD	
<10 ml/min	1.5 MIU BD	
intermittent HD	1.5MIU BD + supplemental 1MIU after each HD session	
CVVHF/CVVHDF	3 MIU TDS	
CAPD	2.5 MIU BD (IV)	

Method of Administration:

Reconstitute dose with 50 ml NS and swirl gently to avoid frothing, administer dose immediately to avoid contamination and hydrolysis. Administer dose as slow IV infusion over 30-60min.

Combination therapy:

To avoid resistance combination therapy is recommended, especially in patients with normal renal function. Not recommended as monotherapy for empiric treatment of suspected gram-negative infections. For proper combination please consult a clinical microbiologist.

1.000.000 MIU CMS	34 CBA mg	80 CMS mg
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Conversion

THIS GUIDELINE WAS REVIEWED BY PHARMACY, NEPHROLOGY AND MICROBIOLOGY DEPARTMENTS FOR USE IN THE ICU. ISSUED ON JAN/2017. TO BE REVIEWED ON JAN/2018.