

CYSTIC FIBROSIS MEDICATION DOSING

Note: Home inhaled antimicrobials should generally be discontinued. Dosing recommendations listed here are supported by the Cystic Fibrosis Foundation and reflect the pharmacokinetic/pharmacodynamic differences among individuals with CF. Some doses may be higher than the FDA-approved doses.

Medication	Pediatric Dose	Adult Dose	Max	
			per dose	per day
Penicillins				
ampicillin/sulbactam	weight ≤ 25 kg: 75 mg/kg/dose (ampicillin) IV q6h	2 gm (ampicillin) IV q4h	2 gm (ampicillin)	12 gm (ampicillin)
	weight > 25 kg: 50 mg/kg/dose (ampicillin) IV q4h			
piperacillin/tazobactam	100 mg/kg/dose (piperacillin) IV q4h (30 min infusion)	4 gm (piperacillin) IV q8h	4 gm (piperacillin)	24 gm (piperacillin)
	100 mg/kg/dose (piperacillin) IV q8h (4 hr infusion)			
Cephalosporins				
ceftazidime	50 mg/kg/dose IV q6h	2 gm IV q6h	2 gm	8 gm
ceftazidime/avibactam	50 mg/kg/dose (ceftazidime) IV q6h	2 gm (ceftazidime) IV q6h	2 gm (ceftazidime)	8 gm (ceftazidime)
cefuroxime	33 mg/kg/dose IV q8h	1.5 gm IV q8h	1.5 gm	4.5 gm
Carbapenems				
meropenem	40 mg/kg/dose IV q8h	2 gm IV q8h	2 gm	6 gm
Aminoglycosides				
tobramycin	10 mg/kg IV q24	10 mg/kg IV q24	peak/trough monitoring	
amikacin	30 mg/kg IV q24h	30 mg/kg IV q24h	peak/trough monitoring	
Fluoroquinolones				
ciprofloxacin	10 mg/kg/dose IV q8h	400 mg IV q8h	400 mg	1.2 gm
	20 mg/kg/dose PO BID	1 gm PO BID	1 gm	2 gm
levofloxacin	≤ 5 yo: 10 mg/kg/dose q12h	750 mg IV/PO daily	375 mg	750 mg
	> 5 yo: 10 mg/kg/dose q24h		750 mg	750 mg
Anti-staphylococcal				
clindamycin	10 mg/kg/dose IV q6h	1.2 gm IV q6h	1.2 gm	4.8 gm
vancomycin	15 mg/kg/dose IV q6h	15 mg/kg/dose IV q6h	peak/trough monitoring	
ceftaroline	12 mg/kg/dose IV q8h	600 mg IV q8h	600 mg	1800 mg
nafcillin	50 mg/kg/dose IV q6h	2 gm IV q6h	2 gm	12 gm
linezolid	< 12 yo: 10 mg/kg/dose IV q8h	600 mg IV q12h	600 mg	1.8 gm
	≥ 12 yo: 10 mg/kg/dose IV q12h		600 mg	1.2 gm

Miscellaneous				
sulfamethoxazole/ trimethoprim (TMP)	8 mg/kg/dose (TMP) q12h	320 mg (TMP) q12h	320 mg (TMP)	640 mg (TMP)
colistimethate	5 mg/kg/day IV divided q8h; ↑ 1 mg/kg/day to goal 8 mg/kg/day	5 mg/kg/day IV divided q8h; ↑ 1 mg/kg/day to goal 8 mg/kg/day	160 mg	480 mg
Anti-inflammatory: start with 5 day steroid burst and reassess.				
prednisone OR prednisolone	2 mg/kg/ DAY PO daily or divided BID			60 mg
Airway clearance				
albuterol	3 puffs per MDI QID or 0.5 mL per Neb QID			
hypertonic saline 7%	4 mL per Neb QID			
DNase	2.5 mL per Neb BID			

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Original: 08/2011

Last revised: 04/2026

Process owner: Pulmonary (Dr Antos) and Antimicrobial Stewardship Program