

# MDR-TB Weight-Based Dosing Chart for Children

Target Dose	Group 1: Oral first-line anti-TB drugs				Group 2: Injectable anti-TB drugs (injectable agents or parenteral agents)	Group 3: Fluoroquinolones			Group 4: Oral bacteriostatis agents				Group 5: Anti-TB drugs with unclear efficacy or unclear role in MDR-TB treatment	Target Dose							
	Ethambutol (15-25 mg/kg)		Pyrazinamide (30-40 mg/kg)			Levofloxacin (15-20 mg/kg)	Moxifloxacin (7.5-10 mg/kg)	Ofoxacin (15-20 mg/kg)	Cycloserine/ Terizidone (15-20 mg/kg)	PAS (150-200 mg/kg)		Protonamide/ Ethionamide (15-20 mg/kg)			Isoniazid High Dose (15-20 mg/kg)	Available Formulations					
Available Formulations	100 mg tablet	Suspend 400mg tab in 8 mL of water for a 50 mg/mL suspension	400 mg tablet	500 mg tablet		250 mg tablet	25 mg/mL suspension	400 mg tablet	20 mg/mL suspension	200 mg tablet	250 mg capsule	1 capsule in 10 mL water	Daily	Twice Daily	250 mg tablet	100 mg tablet	Available Formulations				
Wt (kg)	Consult with a clinician experienced in pediatric MDR-TB prescribing for neonates (<28 days of age) and infants weighing <3 kg																Wt (kg)				
<3																	<3				
3-3.9	1 tab	2 mL	.25 tab	.25 tab	To illustrate dose calculation, take the example of a child that weighs 6.9 kg. Both the low and high doses for the child's weight are calculated.  For kanamycin: Low dose: 15 mg/kg x 6.9 kg = 103 mg High dose: 20 mg/kg x 6.9 kg = 138 mg A convenient dosing is then chosen between the two numbers.  Select a dose between the two numbers and towards the higher number. In this case, choose: 125 mg per day, single dose.  Calculate the number of mL to draw up in the syringe based on the mg/mL concentration of the preparation.	.25 tab	2.5 mL	not recommended	1.5 mL	.5 tab	.25 cap	2.5 mL	500 mg	250 mg	.25 tab	.5 tab	3-3.9				
4-4.9												2 mL				1000 mg	500 mg				4-4.9
5-5.9													2.5 mL			.5 cap	5 mL	1500 mg	750 mg	.5 tab	
6-6.9	2 tabs	4 mL	.5 tab	.5 tab			.75 tab	7.5 mL		5 mL	1 tab	.75 cap	7.5 mL	2000 mg	1000 mg	.75 tab		6-6.9			
7-7.9																			7-7.9		
8-8.9																				8-8.9	
9-9.9	3 tabs	6 mL	1 tab	1 tab			1 tab	10 mL		7.5 mL	1.5 tabs	1 cap	10 mL	2500 mg	1250 mg	1 tab		9-9.9			
10-10.9																			10-10.9		
11-11.9																				11-11.9	
12-12.9	4 tabs	8 mL	1.5 tabs	1.5 tabs			1.5 tabs	15 mL	.5 tab	10 mL	2 tabs	1.5 caps	15 mL	3000 mg	1500 mg	1.5 tabs		12-12.9			
13-13.9																			13-13.9		
14-14.9																				14-14.9	
15-15.9	5 tabs	10 mL	2 tabs	2 tabs		2 tabs	20 mL		12.5 mL	2.5 tabs	2 caps	20 mL	4000 mg	2000 mg	2 tabs		15-15.9				
16-16.9																		16-16.9			
17-17.9																			17-17.9		
18-18.9													5000 mg	2500 mg			18-18.9				
19-19.9													6000 mg	3000 mg			19-19.9				
20-20.9																	20-20.9				
21-21.9																	21-21.9				
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28-28.9																	28-28.9				
29-29.9																	29-29.9				

For preventive regimens, consult with experts regarding optimal regimen construction.  
The doses of isoniazid, ethambutol, and fluoroquinolones for preventive regimens are the same as in this dosing chart.



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Group 2	Streptomycin	Amikacin	Kanamycin	Capreomycin
Daily Dose	20-40 mg/kg once daily	15-20 mg/kg once daily	15-20 mg/kg once daily	15-20 mg/kg once daily
Maximum Daily Dose	1000 mg	1000 mg	1000 mg	1000 mg

Group 5	Clofazimine (CFZ)	Amoxicillin-clavulanate (AMX-CLV)	Meropenem (MPN)	Linezolid (LZD)	Clarithromycin (CLR)
Daily Dose	2-3 mg/kg once daily; if the child is <25kg give 100mg every second day	80 mg/kg in two divided doses based on the amoxicillin component	20-40 mg/kg IV every 8 hours	10 mg/kg dose twice daily for children <10 years of age 300 mg daily for children >10 years of age (also give vitamin B6)	7.5 mg/kg twice daily
Maximum Daily Dose	200 mg	4000 mg amoxicillin and 500 mg clavulanate	6000 mg	600 mg	1000 mg