

## TB-DRUG DOSAGE TOOL

Drug	Dose in mg/kg (Maximum Dose)		
	Daily	2 Times/Week	3 Times/Week
	Adults	Adults	Adults
Isoniazid (INH)	5 (300mg)	15 (900mg)	15 (900mg)
Rifampin (RIF)	10 (600mg)	10 (600mg)	10 (600mg)

**TABLE 4 Suggested pyrazinamide doses, using whole tablets, for adults weight 40-90kg**

	Weight (kg)*		
	40-55kg (88-121lbs)	56-75kg (122-165lbs)	76-90kg (166-198lbs)
<b>Daily, mg</b>	1,000	1,500	2,000†
<b>Thrice weekly, mg</b>	1,500	2,500	3,000†
<b>Twice weekly, mg</b>	2,000	3,000	4,000†

\*Based on estimated lean body weight.

†Maximum dose regardless of weight.

Long-term use of PZA should be 25mg/kg/day

**TABLE 5 Suggested ethambutol doses, using whole tablets, for adults weight 40-90kg**

	Weight (kg)*		
	40-55kg (88-121lbs)	56-75kg (122-165lbs)	76-90kg (166-198lbs)
<b>Daily, mg</b>	800	1,200	1,600†
<b>Thrice weekly, mg</b>	1,200	2,000	2,400†
<b>Twice weekly, mg</b>	2,000	2,800	4,000†

\*Based on estimated lean body weight.

†Maximum dose regardless of weight.

Long-term use of EMB should be 15mg/kg.

### DOSAGE CHART FOR TB DRUGS (modified)

Weight		Weight-Adjusted Doses (mg/kg)						
lb.	kg	5	10	15	20	25	30	40
11	5				100		150	200
22	10	50		150	200	250	300	400
33	15				300			600
44	20	100		300	400	500	600	800
55	25				500			900†
66	30	150	300	450	600†	750	900†	
77	35				700			
88	40	200		600	800			
99	45				900†			
110	50	250		750				
121	55							
132	60	300†	600†	900†				

†Maximum dose regardless of weight.

Isoniazid (INH) comes on 100 mg & 300 mg scored tablets

Rifampin (RIF) comes in 300 mg & 600 mg capsules

## 12-DOSE Regimen for Latent Tuberculosis Infection (3HP)

BOX 1. Dosage for a combination regimen of isoniazid and rifapentine in 12-once-weekly doses under direct observation for treating latent *Mycobacterium tuberculosis* infection

### Isoniazid

15mg/kg rounded up to the nearest 50 or 100mg;  
900mg maximum ( $\geq 60\text{kg}$ , 132 lbs.)

### Rifapentine

10.1-14.0 kg	22-30 lbs.	300 mg
14.1-25.0 kg	31-55 lbs.	450mg
25.1-32.0 kg	56-70 lbs.	600mg
32.1-49.9 kg	71-110n lbs.	750mg
$\geq 50.0$ kg	$\geq 110$ lbs.	900mg maximum

Isoniazid (INH) is formulated as 100 mg and 300 mg tablets. Rifapentine (RPT) is formulated as 150mg tablets packaged in blister packs that should be kept sealed until usage. New formulations with larger dosages per tablet and fixed-dose INH-RPT combinations are in development.

**Source:** Three months of weekly rifapentine and isoniazid for *Mycobacterium tuberculosis* infection (PREVENT TB). Information available at <http://clinicaltrials.gov/ct/show/nct0002352?term=rifapentine&rank=9>.

### DOSAGE CHART FOR TB DRUGS (modified)

Weight		Weight-Adjusted Doses
lb.	kg	15 mg/kg
11	5	75
22	10	150
33	15	225
44	20	300
55	25	375
66	30	450
77	35	525
88	40	600
99	45	675
110	50	750
121	55	825
132	60	900

## PEDIATRIC MEDICATION DOSING

Dosing range for daily, twice weekly, and maximum doses, as well as forms available for the first line anti-tuberculosis medications.

### DAILY DOSE RANGE

	<b>Isoniazid (INH)</b>	<b>Rifampin (RIF)</b>	<b>Pyrazinamide (PZA)</b>	<b>Ethambutol (EMB)</b>
<b>Child's Weight –kg(lbs.)</b>	10-15mg/kg/day	10-20mg/kg/day	15-30mg/kg/day*	15-25mg/kg/day*
	Dose, mg	Dose, mg	Dose, mg	Dose, mg
3-5 (1.4-2.3 lbs.)	50	50	125	100
6-9 (2.7-4.0 lbs.)	100	100	125-250	150
10-15 (4.5-6.8 lbs.)	150	150	250-375	250
16-20 (7.2-9.0 lbs.)	200	200	375	300
21-25 (9.5-11.4 lbs.)	300 max dose	300	500	400
26-45 (11.8-20.5 lbs.)	300	450	750	600-700
46-50 (20.9-22.7 lbs.)	300	600 max dose	1000	800
51-66 (23.1-30.0 lbs.)	300	600	1500	1000 max dose
67+ (30.5 lbs.)	300	600	2000 max dose	1000
<b>TWICE A WK DOSE:</b>	20-30 mg/kg/dose	10-20 mg/kg/dose	50mg/kg/dose	50mg/kg/dose
<b>Maximum Doses:</b>	Daily: 300mg	Daily: 600mg	Daily: 2000	Daily: 1000
	Twice wkly: 900mg	Twice wkly: 600mg	Twice wkly: 2000 mg	Twice wkly: 2500 mg
<b>Forms Available:</b>	Scored tablets: 100 mg 300 mg Syrup: 10mg/ml** 50mg/ml†	Capsules: 150 mg 300 mg Syrup: compounded formulation	Scored tablets: 500 mg	Tablets 100 mg 400 mg

\*The Redbook (2012) lists pediatric doses of PZA as 30-40mg/kg and EMB 20mg/kg.

\*\*Many experts advise against using INH syrup because it is frequently associated with diarrhea.

†Skywalk pharmacy at Children's Hospital in Milwaukee has a syrup at higher concentration without diarrhea.