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Latent Tuberculosis Infection (LTBI) Treatment Regimens

Regimens*	Dosages	Comments
<p>Rifampin Daily x 4 months</p> <p>[4R]</p>	<p>Preparation: 150 mg or 300 mg capsules</p> <p>Adults: 600 mg. Consider 450 mg once daily for adults who weigh less than 50 kg</p> <p>Children: 15-20 mg/kg once daily (600 mg maximum)</p> <p>Target Duration: 120 doses within 180 days</p>	<ul style="list-style-type: none"> • Higher rate of treatment completion • Lower rate of side effects, especially drug-induced hepatitis • Caution: drug-drug interactions
<p>Isoniazid (INH) + Rifapentine Once weekly x 12 weeks</p> <p>[3HP]</p>	<p>Isoniazid Adults and Children (age 12 and older): 15 mg/kg per dose once weekly, rounded up to the nearest 50 or 100 mg (max 900 mg)</p> <p>Children (age 2-11): INH 25 mg/kg per dose once weekly, rounded up to the nearest 50 or 100 mg (max 900 mg)</p> <p>Rifapentine Adults and Children: once weekly dosage by weight</p> <p>Preparation: 150 mg tablets. 300 mg for 10.0 – 14.0 kg, 450 mg for 14.1 – 25.0 kg, 600 mg for 25.1 – 32.0 kg, 750 mg for 32.1 – 49.9 kg, 900mg for ≥50.0 kg (max 900 mg)</p> <p>Target Duration: 12 doses within 16 weeks</p>	<ul style="list-style-type: none"> • Higher rate of treatment completion • Lower rate of drug-induced hepatitis • Higher rate of treatment discontinuation due to adverse events • Caution: drug-drug interactions due to rifapentine
<p>Isoniazid (INH) + Rifampin Daily x 3 months</p> <p>[3HR]</p>	<p>Isoniazid</p> <p>Preparation: 100 mg or 300 mg tablets</p> <p>Adults: 5 mg/kg per dose (300 mg max) Consider 200 mg once daily for adults 40 kg or less</p> <p>Children: 10-20 mg/kg per dose (300 mg max)</p> <p>Rifampin</p> <p>See the dosages for “Rifampin Daily x 4 months [4R]”</p> <p>Target Duration: 90 doses within 4 months</p>	<ul style="list-style-type: none"> • Higher rate of treatment completion • Similar rate of drug-induced hepatitis compared to daily INH • Higher rate of treatment discontinuation due to adverse events • Caution: drug-drug interactions due to rifampin

Regimens*	Dosages	Comments
Isoniazid Daily x 6 – 9 months [6H/9H]	Preparation: 100 mg or 300 mg tablets Adults: 5 mg/kg per dose (300 mg max) Consider 200 mg once daily for adults 40 kg or less Children: 10-20 mg/kg per dose (300 mg max) Target duration: 180 doses within 9 months; 270 doses within 12 months	<ul style="list-style-type: none"> For those who cannot swallow pills (e.g., younger children), crush tablets as liquid suspension is poorly tolerated Lowest rates of treatment completion

- **Monthly symptom review** to assess side effects for any regimens
- **Pyridoxine:** If the patient has diabetes, HIV, renal failure, alcoholism, poor nutrition, or is pregnant/breast-feeding, give pyridoxine 25-50 mg daily for 3HR and 6H/9H, or pyridoxine 50 mg once weekly for 3HP

The comparison of the LTBI regimens

	Frequency	The typical number of pills each time (adults > 50 kg)	Completion rate (compared to INH)	Risk of drug - induced hepatitis (compared to INH)	Rate of treatment discontinuation due to adverse effects (compared to INH)	Drug-drug interactions (compared to INH)
4R	Once daily	2 pills	Higher	Lower	Lower	Higher
3HP	Once weekly	9 pills (*10 if add B6)	Higher	Lower	Higher	High, but lower than 4R or 3HR
3HR	Once daily	3 pills	Higher	Similar	Higher	Higher
6H/9H	Once daily	1 pill (*2 if add B6)				

***Pyridoxine:** If the patient has diabetes, HIV, renal failure, alcoholism, poor nutrition, or is pregnant/breast-feeding, give pyridoxine 25-50 mg daily for 3HR and 6H/9H, or pyridoxine 50 mg once weekly for 3HP

* Refer to the full [LTBI Treatment Guidance in Washington State document](#) for details including pregnancy, breastfeeding, HIV.