

Table 2. First-Line Drugs for TB Disease

Drug	Supplied	Daily	Intermittent	Side Effects	Monitoring	Comments
Isoniazid:	Tabs: 300mg 100mg 50mg Susp: 50mg/5ml Inj: 100mg/ml (IM or IV)	<u>Adults:</u> 300mg <u>Children:</u> 10–15mg/kg (>20kg receives 300mg)	<u>Adults 2 or 3X weekly:</u> 15mg/kg up to 900mg <u>Children 2X weekly:</u> 20–30 mg/kg up to 900 mg	Hepatitis; peripheral neuropathy; mild CNS effects; skin rash; increased Dilantin levels.	LFTs (not routine) unless known or suspected liver disease or other hepatotoxic drugs used concurrently.	Give pyridoxine 25mg/day to prevent neuropathy in elderly, D.M., nutritionally deficient, renal disease, pregnancy, HIV, alcoholics.
Rifampin:	Caps: 300mg 150mg Inj: 600mg vial (IM or IV)	<u>Adults:</u> 10mg/kg up to 600mg <u>Children:</u> 10–20 mg/kg up to 600mg	<u>Adults 2 or 3X weekly</u> 10mg/kg up to 600mg <u>Children 2X weekly:</u> 10–20 mg/kg up to 600 mg	Orange discoloration of secretions; cholestatic or hepatocellular hepatitis; febrile (flu-like) reaction; thrombocytopenia; drug interactions; skin rash.	LFTs (not routine) unless known or suspected liver disease or other hepatotoxic drugs used concurrently. Baseline CBC.	Warn patient about orange discoloration of urine and other body secretions. Discoloration of contact lens. Induces hepatitis microsomal enzymes.
Ethambutol:	Tabs: 400mg 100mg	<u>Adults:</u> 15–25mg/kg <u>Children:</u> 15–25mg/kg up to 2.5gm	<u>Adults 2X weekly:</u> 50mg/kg <u>Adults 3X weekly:</u> 30mg/kg <u>Children 2X weekly:</u> 50 mg/kg	Optic neuritis (reversible with discontinuation of drug; very rare at 15mg/kg if renal function is normal); skin rash.	Red-green color discrimination and visual acuity done at baseline and monthly.	Dose adjustment needed for renal disease; use with caution if eye testing is not feasible.
Pyrazinamide:	Tabs: 500mg scored	<u>Adults:</u> 20–25mg/kg up to 2 gm <u>Children:</u> 15–30mg/kg up to 2000mg	<u>Adults 2X weekly:</u> 50mg/kg up to 3gm <u>Adults 3X weekly:</u> 40mg/kg up to 4gm <u>Children 2 or 3X weekly:</u> 50 mg/kg	Hepatitis; GI upset; hyperuricemia; arthralgis; photosensitive dermatitis.	LFTs at start of therapy and monthly. Uric acid (not routine).	Dose adjustment needed for renal disease. Safety not established in pregnancy.
Rifabutin:	Caps: 150mg	<u>Adults:</u> 5 mg/kg up to 300mg <u>Children:</u> Unknown	<u>Adults 2 or 3X weekly:</u> 5mg/kg up to 300mg <u>Children:</u> Unknown	As for rifampin and risk of uveitis when used with macrolides, PI's and azole antifungal agents.	As for rifampin.	As for rifampin.
Rifapentine:	Film-Coated Tabs: 150mg	Not given daily	<u>Adults once weekly:</u> 10mg/kg up to 600mg <u>Children:</u> not studied	As for rifampin.	As for rifampin.	As for rifampin.