TREATMENT OF TUBERCULOSIS IN CHILDREN - 2019

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STAGES OF TB	SKIN TEST or	CXR	SYMPTOMS/	TREATMENT					
	IGRA		PHYSICAL						
Exposure	Negative	Normal	None/	Meds: Rif or INH window prophylaxis					
Child ≤ 4 years of age	-		Normal	Duration: 8-10 weeks					
Household Contact with adult				Repeat skin test: 8-10 wks after last					
with active pulmonary disease				exposure, if positive \geq 5mm, see LTBI					
Latant TD infaction (LTDI)	Positive	Normal	None/	Tractment Ontional					
Latent TB infection (LTBI)	rositive	Normai	Normal	Treatment Options:					
Not contagious			Normai	• Rifampin x 4 months or					
				• 3HP (INH and Rifapentine) once					
				weekly x 12 weeks (age \geq 2 yrs &					
				DOPT only) or					
				• INH x 9 months (completion poor)					
Disease	90% positive	Abnormal	Half of children	Meds: INH, RIF, PZA, EMB					
Pulmonary, lymph node		CXR	have symptoms,	Duration:					
disease, extrapulmonary,		or	half are	• 6-9 months for pulmonary and/or					
bone/joint, miliary or		other evidence	asymptomatic	lymph node disease					
meningitis		of disease such		• 9-12 months for disseminated					
		as labs, exam,		disease including miliary,					
		CSF or		meningitis & bone/joint TB					
		pathology		Stop PZA after 2 months.					
Note:	Note:		Note:	Stop EMB if susceptible to INH and RIF.					
• Children ≤ 10 usually				Continue INH & RIF to completion.					
not contagious	50% have false		Most adults	DOT standard.					
• Adults and teens with	negative PPD		with TB disease	Meningitis:					
AFB + pulmonary	early in		have cough and	• Rifampin 20-30 mg/kg/day					
TB are contagious	meningitis and		other symptoms	• Steroids standard first 6-8 weeks					
Extrapulmonary TB	miliary disease			• Ethionamide may be substituted for					
is not contagious				EMB for better CNS penetration					
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INH = Isoniazid, RIF = Rifampin, PZA = Pyrazinamide, EMB = Ethambutol, 3HP = INH and Rifapentine, DOT = directly observed therapy, DOPT = directly observed preventive therapy, VDOT = video DOT, ESAT = enhanced self-administered therapy. IGRA = Interferon gamma release assay (Quantiferon or TSPOT)

Dosing range for daily, twice weekly, and maximum doses, as well as forms available for the first line anti-tuberculosis medications. Note: #Rifampin dose varies by age of child.

DAILY DOSE RANGE									
	Isoniazid (INH)*	Rifampin (RIF)#	Rifampin (RIF)#	Pyrazinamide (PZA)	Ethambutol (EMB)				
	10-15 mg/kg/day	<mark>Age > 2 yrs</mark> 15-20 mg/kg/day	<mark>Age: Birth- 2 yrs</mark> 20-30 mg /kg/day	30-40 mg/kg/day	15-25 mg/kg/day				
Weight (kg)	Dose, mg	Dose, mg	Dose, mg	Dose, mg	Dose, mg				
3-5	50	50-75	75-100	125	50-100				
6-9	100	100-150	150-200	250	150				
10-15	150	150-300	200-300	375-500	250				
16-20	200	300	450	500-750	300				
21-25	300	300-450	450-600	750	400				
26-30	300	450-600	600	1000	600-700				
31-45	300	600	600	1250-1500	800				
46-50	300	600	600	1500-2000	1000				
50+	300	600	600	2000	1000				
TWICE A WK DOSE: Maximum Doses:	20-30 mg/kg/dose Daily: 300 mg Twice wkly: 900 mg	15-20 mg/kg/dose Daily: 600 mg Twice wkly 600 mg	20-30 mg/kg/dose Daily: 600 mg Twice wkly 600 mg	50 mg/kg/dose Daily: 2000 mg Twice wkly: 2000 mg	50 mg/kg/dose Daily: 1000 mg Twice wkly: 2500 mg				
Forms Available:	Scored tablets: 100 mg 300 mg Syrup: 10 mg/ml*	Capsules: 150 mg 300 mg Syrup: compounded	Capsules: 150 mg 300 mg Syrup: compounded	Scored tablets: 500 mg	Tablets: 100mg 400 mg				

*Most experts advise against using INH syrup because it is frequently associated with diarrhea. May crush tabs. #For Rifampin many experts recommend 20-30 mg/kg/day for infants and toddlers (<2yrs) as well as for older children with meningitis or disseminated disease. May open and sprinkle capsules or compound syrup.