

Appendix 46 - TUBERCULOSIS

Table 1: Drug Therapy For Susceptible Tuberculosis Or Empiric Selection Tell Culture Sensitivity Results				
Intensive Phase			Continuation Phase	
Drug Combination	Duration	Drug Combination	Duration	
A. Standard Regimen				
Isoniazid (INH) + Rifampin (RIF) + Pyrazinamide + Ethambutol (EMB)	2 Months N.B: stop ethambutol if culture sensitive to Isoniazid (INH) and Rifampin (RIF)	Isoniazid (INH) + Rifampin (RIF)	standard: 4 Months extension: additional 3 months (total 7 months) for patients who had cavitation on the initial (or follow-up) chest radiograph and, in addition, are culture positive at the time of completion of the intensive phase of treatment. Or HIV patient not on antiretroviral therapy.	
Re	gimen: 7 days/ week (preferred) o	or 5 days/week (only under direct o	observed therapy)	
B. Alternative Regimen Composition				
used in case of intolerance to first-line drugs or the presence of monoresistance				
Intensive Phase			Continuation Phase	
Drug Combination	Duration	Drug Combination	Duration	
if Pyrazinamide can not be used: Isoniazid (INH) + Rifampin (RIF) + Ethambutol (EMB)	2 months	Isoniazid (INH) + Rifampin (RIF)	7 months	
if EMB cannot be used: Isoniazid (INH) + Rifampin (RIF) + Quinolones (Levo OR Moxi)	2 months	Isoniazid (INH) + Rifampin (RIF)	7 months	
if INH cannot be used: Quinolones (Levo OR Moxi) + Rifampin (RIF) + Pyrazinamide + Ethambutol (EMB)		Quinolones (Levo OR Moxi) + Rifampin (RIF)	7 months	
If a rifamycin cannot be used in the initial regimen due to				
resistance or intolerance: refer to Table 3				
if several agent of standard regimen cannot be used: refer to Table 3				
	С. Т	uberculous Meningitis		
Intensive Phase			Continuation Phase	
Drug Combination	Duration	Drug Combination	Duration	
for adults: Isoniazid (INH) + Rifampin (RIF) + Pyrazinamide + Ethambutol (EMB)	2 Months N.B: stop ethambutol if culture sensitive to Isoniazid (INH) and Rifampin (RIF)	Isoniazid (INH) + Rifampin (RIF)	7- 10 months	
<u>for children:</u> Isoniazid (INH) + Rifampin (RIF) + Pyrazinamide + ethionamide or Aminoglycosides	2 Months	Isoniazid (INH) + Rifampin (RIF)	7- 10 months	
D. Culture-Negative Pulmonary Tuberculosis in Adults				
Intensive Phase			Continuation Phase	
Drug Combination	Duration	Drug Combination	Duration	
soniazid (INH) + Rifampin (RIF) + Pyrazinamide + Ethambutol (EMB)	2 Months N.B: stop ethambutol if culture sensitive to Isoniazid (INH) and Rifampin (RIF)	Isoniazid (INH) + Rifampin (RIF)	2 Months	
E. Patient with hepatic disease				
Intensive Phase			Continuation Phase	
Drug Combination	Duration	Drug Combination	Duration	
if Pyrazinamide cannot be used: Isoniazid (INH) + Rifampin (RIF) + Ethambutol (EMB)	2 months	Isoniazid (INH) + Rifampin (RIF)	7 months	
Treatment without INH and PZA: For advanced liver disease patients, Rifampin (RIF) + Ethambutol (EMB) + a fluoroquinolone (levo or Moxi) or injectable, or cycloserine for 12–18 months				
Treatment without INH: Based on outcomes of studies on INH-resistant tuberculosis, a Rifampin (RIF) + Pyrazinamide + Ethambutol (EMB) ± a fluoroquinolone (levo or Moxi) could be considered for a total duration of at least 6 months				
For patients with severe, unstable liver disease: EMB + a fluoroquinolone (levo or Moxi)+ cycloserine + second-line injectable (Streptomycin OR Amikacin/ kanamycin OR Capreomycin) for 18–24 months				
N.B: Measuring serum aminotransferases and total bilirubin concentrations every 1–4 weeks for at least the first 2–3 months of treatment				
F. Patient with Recurrent Tuberculosis				
1) For patients with relapse who were treated for drug-susceptible tuberculosis using DOT, experts recommend retreatment using the standard intensive phase regimen until the results of susceptibility tests are known.				

intensive phase regimen of daily INH + RIF + PZA + EMB + fluoroquinolone (levo or Moxi) + an injectable agent (Amikacin, Streptomycin, Kanamycin, Capreomycin, Carbapenems with clavulanic acid) ± second-line drug (Cycloserine



Table 2: For latent TB				
Regimens	CDC 2020	WHO 2020		
3 months isoniazid +	Preferred	All are alternative to each other		
rifapentine given once weekly		and the choice will depend on availability of appropriate		
3 months of isoniazid +	Preferred			
rifampicin given daily		formulations and considerations		
4 months rifampin given daily	Preferred	for age, safety, drug–drug		
9 months isoniazid given daily	Alternative interactions and adhere			
6 months isoniazid given daily	Alternative	interactions and adherence.		
1-month regimen of daily	Alternative	not mentioned		
rifapentine + isoniazid		not mentioned		
12 months isoniazid given daily	Alternative	not mentioned		

Table 3: Drug Therapy for Multi-drug resistant Tuberculosis (resistant to INH and RIF ± resistance to other AB)				
Intensive Phase	Continuation Phase			
 Ethionamide/ Prothionamide 	Based on WHO recommendation: Delamanid Conditional evidence against: (used only if more effective drugs are available to construct a regimen with at least five effective drug) P-Aminosalicylic Acid Ethionamide / Prothionamide			
For the treatment	of isoniazid-resistant:			
regimen: Rifampin (RIF) + Pyrazinamide + Ethambutol (EMB) + Fluoroquinolones (levo or moxi)				
Duration: 6-month duration as whole treatment regimen or 6-month duration for Rifampin (RIF) + Ethambutol (EMB) + Fluoroquinolones (levo or moxi)				
and 4-month duration for Pyrazinamide (in selected situations (i.e., noncavitary and lower burden disease or toxicity from pyrazinamide)				
Treatment of Contacts Exposed to MDR-TB				
Regimen: single agent fluoroquinolone (levo or moxi) ± second drug, on the b	asis of drug susceptibility of the source-case M. tuberculosis isolate.			

Regimen: single agent fluoroquinolone (levo or moxi) ± second drug, on the basis of drug susceptibility of the source-case M. tuberculosis isolate. Duration: 6 to 12 months N.B: pyrazinamide should not be routinely used as the second drug.

