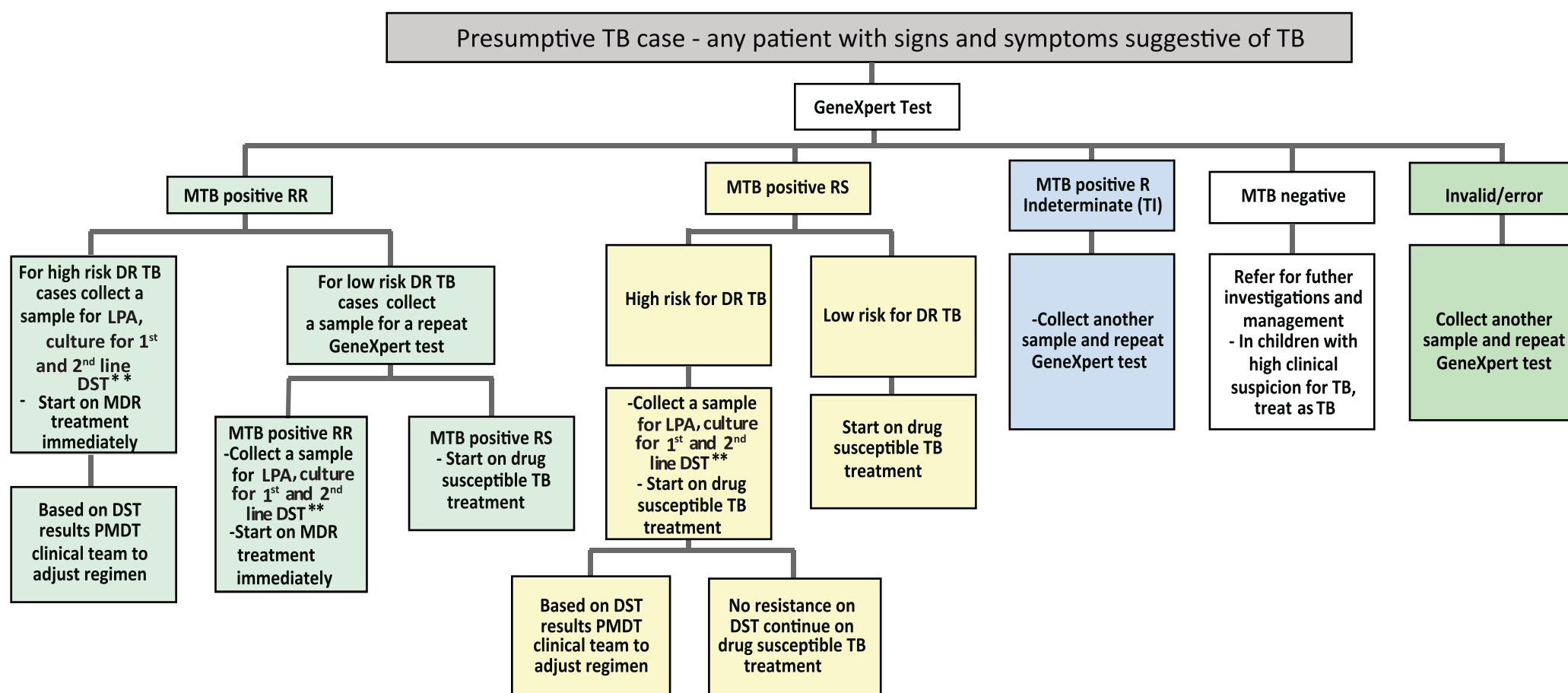


GeneXpert test is the preferred first test for TB diagnosis and identification of Rifampicin resistance in all presumptive TB cases*

Patients diagnosed using GeneXpert should be followed up using smear microscopy



<p>High risk for DR TB</p> <ul style="list-style-type: none"> Previously treated TB patients: treatment failures, relapses, treatment after loss to follow up Drug Resistant TB patient contacts TB patients with a positive smear result at month 2 or month 5 of TB treatment Patient who develops TB symptoms while on IPT or has had previous IPT exposure Healthcare Workers with TB symptoms Prisoners with TB symptoms Refugees with TB symptoms 	<p>Low risk for DR TB</p> <p>All presumptive TB cases who are not in the high risk group including:</p> <ul style="list-style-type: none"> People Living with HIV with TB symptoms Children <15 years with TB symptoms All presumptive TB cases with a negative smear microscopy result
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*In situations where GeneXpert is not available, smear microscopy may be used for initial TB diagnosis and concurrently, a sample specimen sent for GeneXpert test

KEY:
MTB RR= Mycobacterium Tuberculosis positive, Rifampicin resistant
MTB RS= Mycobacterium Tuberculosis positive, Rifampicin sensitive
TI=Indeterminate GeneXpert results
MDR = Multi Drug Resistant Tuberculosis
LPA= Line probe assay
DST=Drug susceptibility testing
PMDT= Programmatic Management of Drug Resistant Tuberculosis
****** LPA, Culture & 1st and 2nd line DST

Samples for GeneXpert

- Sputum
- CSF
- Gastric aspirate
- Nasopharyngeal aspirate
- Pleural fluid
- Pericardial fluid
- Ascitic fluid
- FNA
- Lymph node biopsy

Drug Susceptible TB Treatment Regimen

TYPE OF TB	REGIMEN
Pulmonary TB	2RHZE/4RH
Extra pulmonary (all other except bone TB and TB Meningitis)	2RHZE/10RH
Extra pulmonary (Bone TB and TB Meningitis)	

- Follow up smears should be done for all bacteriologically confirmed TB cases at end of month 2,5 and 6 of TB treatment using smear microscopy
- Follow up of RR TB and DR TB should be done as per PMDT guidelines

POSITIVE SMEAR RESULT AT	ACTION
MONTH 2	<ul style="list-style-type: none"> Request for GeneXpert (refer to GeneXpert algorithm) Continue drug susceptible TB treatment Treat based on GeneXpert results If there is no rifampicin resistance, repeat GeneXpert test at month 3 and treat according to GeneXpert results
MONTH 5	<ul style="list-style-type: none"> Declare treatment failure Request for GeneXpert (refer to genexpert algorithm) Treat based on GeneXpert results
MONTH 6	<ul style="list-style-type: none"> Declare treatment failure Request for GeneXpert (refer to GeneXpert algorithm) Treat based on GeneXpert results Evaluate patient adherence to treatment and advice on next treatment options

Once TB treatment is started it should be completed regardless of duration of treatment