Clinical Diagnosis of TB in Children with a Negative/Unknown HIV Status (< 15 years)

HIV-negative presumptive TB case based on non-remitting symptoms (refer to B) Conduct clinical examination. If danger signs or severe illness (e.g lethargic, unconsious, seizures) are present, manage according to IMCI: stabilize and admit based on presentation. If there are no danger signs, manage as an outpatient. Are you able to Yes No obtain a sample (A) for Xpert? Does the HIV-NEGATIVE child have two or Follow TB diagnostic algorithm and manage more of the following: based on results. Provide HTS based on guidelines Two or more persistent symptoms included in B below **AND EITHER** Positive history of contact with a PTB case OR CXR suggestive of TB (Refer to C) **Xpert MTB/RIF Xpert MTB/RIF** OR result positive result negative Any physical sign/conditions suggestive of TB (Refer to D) Start TB treatment: (Refer to E if RIF resistance is detected) Yes No A. Sample types for Xpert testing: 1. Expectorated or induced sputum Give appropriate treatment based on IMCI Guidelines (i.e. broad 2. Gastric aspirates spectrum antibiotics) 3. Nasopharyngeal aspirates 4. Cerebrospinal fluid **REASSESS AFTER 5 DAYS.** 5. Lymph node fine needle aspiration. IF CHILD STILL UNWELL AND SYMPTOMS PERSIST : **B.** Persistent non-remitting symptoms: - Reconsider TB DIAGNOSIS 1. Cough for more than two weeks - Refer for further evaluation

- 2. Fever for more than 10 days
- 3. Weight loss for one month especially if not responding to food

D. Conditions/signs suggestive of TB include:

and/or micronutrient supplementation.

4. Lethargy/fatigue/reduced playfulness

C. CXR findings suggestive of TB

- 1. Miliary picture
- 2. Hilar adenopathy
- 3. Cavitation

Refer to radiologist/doctor for extrapulmonary TB X-ray findings

NOTE: A child with a prior TB treatment history or with history of contact with an MDR-TB case should be investigated for MDRTB and referred to the nearest MDR-TB treatment center







- 1. Severe malnutrition
- 2. Enlarged lymph nodes around the neck or the armpit
- 3. Acute pneumonia not responding to a complete course of appropriate large spectrum antibiotics
- 4. Recurrent pneumonia (defined as at least two episodes of pneumonia in one year with at least one month of clinical recoverv among episodes
- 5. Persistent wheeze not responding to bronchodilators (usually asymmetrical)
- 6. Presence of swelling in the back
- 7. Signs of meningitis (e.g. stiff neck, headache, altered mental status) in child with symptoms suggestive of TB

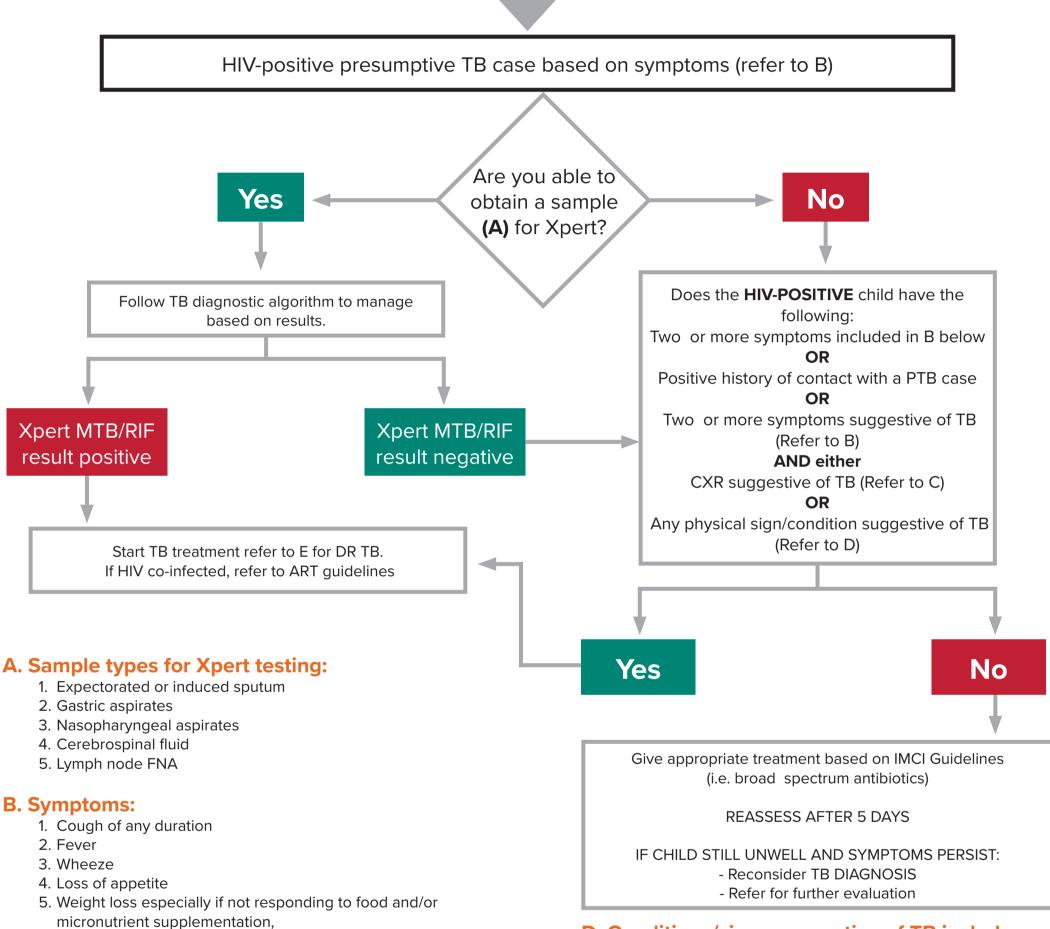
E. DR-TB considerations

1. A child with MTB detected/RIF R(Rifampicin resistance) detected results on Xpert MTB/RIF should be referred to the nearest MDR-TB treatment center

Adapted from Uganda NTP Algorithm for the diagnosis of TB in children

Clinical Diagnosis of TB in Children with a **Positive HIV Status (<15 Years)**

HIV-negative presumptive TB case based on non-remitting symptoms (refer to B)



- 6. Lethargy/fatigue/reduced playfulness

D. Conditions/signs suggestive of TB include:

7. Neck swelling

C. CXR findings suggestive of TB

- 1. Miliary picture
- 2. Hilar adenopathy
- 3. Cavitation
- Refer to radiologist/doctor for extrapulmonary TB X-ray findings

NOTE: A child with a prior TB treatment history or with history of contact with an MDR-TB case should be investigated for MDRTB and referred to the nearest MDR-TB treatment center







- 1. Severe malnutrition
- 2. Enlarged lymph nodes around the neck to the arm pit
- 3. Acute pneumonia not responding to a complete course of appropriate large spectrum antibiotics
- 4. Recurrent pneumonia (defined as at least two episodes of pneumonia in one year with at least one month of clinical recovery among episodes
- 5. Persistent wheeze not responding to bronchodilators (usually asymmetrical)
- 6. Presence of swelling in the back
- 7. Signs of meningitis (e.g. stiff neck, headache, altered mental status) in child with symptoms suggestive of TB.

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1. A child with MTB detected/RIF R(Rifampicin resistance) detected results on Xpert MTB/RIF should be referred to the nearest MDR-TB treatment center