

Screening Algorithm for Pulmonary Tuberculosis for Children and Adults

Does the client have any one or more of the following signs and symptoms?

TB Signs and symptoms in Adults and Children

1. Cough of any duration
2. Persistent fever (Temperature > 37.5°C)
3. Drenching night sweats
4. Unexplained weight loss
5. Chest pain
6. Difficulty in breathing
7. Fatigue (lethargy)
8. History of contact with a person with TB or chronic cough

Other TB Sign in adults

1. Body Mass Index (BMI) <18.5

Other TB Signs and symptoms in Children

1. Poor weight gain or faltering of the growth curve
2. Z-score < -2 (for weight-for-age or height-for-age)
3. Reduced playfulness / less active (lethargy)

No

Yes

Does the patient have any of the following:

- Advanced HIV Disease (AHD) (CD4 <200 cells/mL or WHO Stage 3/4) in the following:
 - Newly diagnosed (People Living with HIV)
 - PLHIV returning to care after treatment interruption of 3 months or longer
 - Suspected treatment failure for ART
 - Children Living with HIV <5 years (except those on ART > 1 year, virally suppressed and clinically stable)
- **NEW:** Baseline for all newly diagnosed PLHIV
- Social/occupational risk factors (**Box 1**)
- Key vulnerable populations (KVPs) (**Box 2**)

No

Yes

Is a Chest Xray (CXR) available?

Yes
Do a CXR

No*

Normal

PLHIV

Abnormal

Abnormal suggestive of TB

Abnormal others (Manage or refer appropriately)

HIV-Negative clients

CRP

<5mg/dl or unavailable

>5mg/dl

Presumptive TB patient
Refer to the appropriate diagnostic algorithm for pulmonary TB and other lung conditions

- Evaluate for other conditions
- Manage appropriately
- Evaluate for TPT eligibility

Box 1: Social/Occupational Risk

1. HCWS
2. Mine workers
3. Prisoners and wardens
4. Refugees, migrants, and displaced populations
5. Urban poor communities, homeless communities

Box 2: Key and Vulnerable populations (KVPs)

1. Patients with diabetes
2. Patients on dialysis
3. Patients with cancer
4. Patients with immunosuppressive conditions/therapy

* If No CXR for PLHIV, do CRP if

- >5mg/dl - Consider Presumptive TB
- <5 mg/dl - Evaluate for other conditions, Manage appropriately, Evaluate for TPT eligibility