

WHO-RECOMMENDED TB SCREENING & DIAGNOSTIC TOOLS*

TAG

Treatment Action Group




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KEY

POPULATION:

- Children
- Adolescents and adults
- People living with HIV

LEVEL OF THE HEALTH SYSTEM:

-  Primary care center
-  District laboratory
-  Central laboratory

ABBREVIATIONS:

- TB/MTB:** tuberculosis
- RIF:** rifampicin
- INH:** isoniazid
- LAM:** lipoarabinomannan
- FQ:** fluoroquinolones
- AG:** aminoglycosides
- CAP:** capreomycin
- PZA:** pyrazinamide

* As of June 2024







**Only for HIV-negative people over 5 years

***To be implemented concurrently with rapid molecular testing

****Mycobacterial culture still required to rule out resistance to new and repurposed drugs bedaquiline, linezolid, clofazimine, etc.




People at risk of TB

TB SCREENING





- Symptom screening ● ● ● 
- Chest X-ray ● ● ● 
- Ultraportable chest X-ray ● ● ● 
- Computer-aided detection (CAD) ● ● 
- C-reactive protein ● 
- Rapid molecular tests ● 

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Screening/
diagnostic
testing
required
to rule out
active TB
before TPT
initiation

TB INFECTION TESTING**

- Tuberculin skin test ● 
- Next-generation TB-specific skin test ● 
- Cy-TB, Diaskintest, C-TST
- Interferon-gamma release assays ● 
- QuantiFERON-TB Gold Plus, T-SPOT.TB






DRUG-SUSCEPTIBILITY TESTING

- Rapid molecular tests for TB and INH/FQ/AG resistance
 - Xpert MTB/XDR ● ● ● 
- Targeted next-generation sequencing for comprehensive DST ● ● ● 
- Deeplex Myc-TB, AmPORE-TB, TBseq
- Line probe assays ● ● ● 
- GenoType MTBDR (RIF/INH) & MTBDRsl (FQ/AG/CAP), Genoscholar MDRTB II (RIF/INH) & PZA TB II
- Mycobacterial culture**** ● ● ● 
- MGIT liquid culture broth microdilution, solid culture

→
People
diagnosed
with active
TB



People with signs and symptoms of TB or positive TB screening result

TB DIAGNOSIS

- Rapid molecular tests for TB and RIF resistance
 - Xpert MTB/RIF Ultra ● ● ● 
 - Truenat MTB Plus & MTB-RIF ● ● ● 
- Rapid molecular test for TB
 - TB-LAMP ● ● ● 
- High-throughput molecular tests for TB and RIF/INH resistance ● ● ● 
- RealTime MTB RIF/INH, BD MAX MDR-TB, cobas MTB-RIF/INH, FluoroType MTBDR Version 2.0
- Urine-LAM lateral flow test
 - Determine TB LAM Ag*** ● 

People on TB treatment

TB TREATMENT MONITORING

- Smear microscopy ● ● ● 
- Mycobacterial culture ● ● ● 
- MGIT liquid culture, solid culture