

**BALF Samples Collection from 105 Patients of Multi-Centers
between June,2021-April,2022**

Exclude 7 Samples:

Two samples nanopore-DH failed;
Two samples mNGS and mNGS-DH failed;
One sample mNGS and nanopore-DH failed;
Two samples Culture and Xpert failed.

Sputum smear positive:
Sputum smears positive and
Sputum culture positive.

Only culture positive:
MTB culture positive and
Radiological lesion of active PTB.

**Pulmonary Histopathology
positive:**
Pulmonary histopathology suggests
consistent lesions of active PTB.

Molecular biology test positive:
Xpert positive and Radiological
lesion of active PTB.

**Chest Radiographies Suggest
Consistence Lesions of Active TB
with Any of the Following
Characteristics:**

PTB Symptoms;
Immunological test positive ;
Extrapulmonary histopathology suggests
lensions of TB;
Bronchoscopy test with lensions of TB.

Only Chest Radiographies
Show Active TB
Consistence Lesions.

**Suspected PTB:
n=29**

**Probable PTB
n=19**

Anti-TB therapy and follow-up
3 months

**Definite PTB:
n=50**

**Clinically Diagnosed PTB:
n=32**

**non-PTB:
n=16**

**PTB:
n=82**

BACTIC 960 Culture +:25(30.49%)
Xpert MTB/RIF +:39(47.56%)
mNGS +:42(51.22%)
mNGS-DH +:59(71.95%)
Nanopore-DH +:45(54.88%)

NTM:2
Cancer:2
Pneumonia:5
AECOPD:1
DPB:1
Undetermined:5