

Supplementary

Figure 1 This diagram showed the partway of patients with suspected TB first visit at OPD until received correct diagnosis.

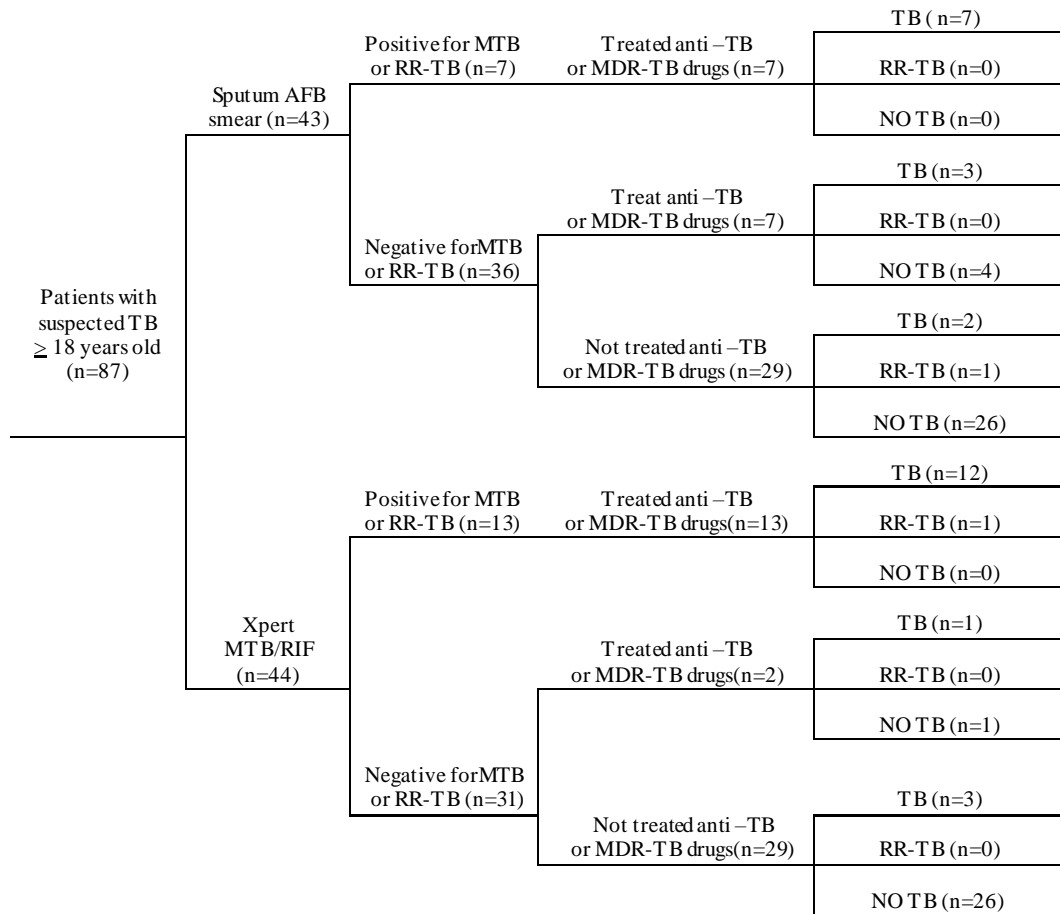


Table 1 The number of tests per patient for comparing the Xpert MTB/RIF with the sputum culture (n=87).

Method	Culture positive	Culture negative	Total
Xpert MTB/RIF			
Positive	24	0	24
Negative	5	58	63
Total	29	58	87

Table 2 The number of tests per patient for comparing the sputum AFB smear with the sputum culture method (n=87).

Method	Culture positive	Culture negative	Total
Sputum AFB smear			
Positive	14	0	14
Negative	15	58	73
Total	29	58	87

Table 3 Value of diagnostic tests between the Xpert MTB/RIF and the sputum AFB smear when compare with the sputum culture method. (n=87)

Value	Xpert MTB/RIF	95% CI	Sputum AFB smear	95% CI
Sensitivity	82.76	64.23-94.15	48.28	29.45- 67.47
Specificity	100.0	93.84-100.0	100.0	93.84- 100.0
PPV	100.0	-	100.0	-
NPV	92.06	83.94-96.26	79.45	73.12-84.61
Accuracy	94.25	87.10- 98.11	82.76	73.16-90.02
Prevalence	33.33	23.58- 44.25	33.33	23.58-44.25

Table 4 Comparison of the proportion of diagnosis between the Xpert MTB/RIF and the sputum AFB smear group (n=87).

Variable	Xpert MTB/RIF n (%)	Sputum AFB smear n(%)	Total n	Proportion differences (95%CI)
1) Patients with true positive for MTB and were treated with anti-TB drugs.	12 (30.0)	7 (19.4)	19	0.263 (-0.004, 0.569)
2) Patients with true positive for MTB with RR-TB and were treated with MDR drugs.	1 (2.5)	0	1	NA
3) Patients with false negative for MTB and were with treated anti-TB drugs.	1 (2.5)	3 (8.3)	4	-0.500 (-1.00, -0.100)*
4) Patients with true negative for MTB and were not treated.	26 (65.0)	26 (72.3)	52	0.000 (-0.192, 0.192)
5) Patients with false negative for MTB and were not treated with anti-TB drugs.	3 (75.0)	1(16.6)	4	-0.500 (-0.100, 1.100)
6) Patients with true negative for MTB but were treated with anti-TB drugs.	1(25.0)	4(66.8)	5	-0.600(-1.096, -0.104)*
7) Patients with false negative for MTB with RR-TB and were not treated with MDR drugs.	0	1(16.6)	1	NA

* Statistically significant at $p < 0.05$.