

Table 4b: Summary of diagnostic indices for combined diagnostic tests in EBUS-TBNA samples

EBUS	Smear + ROSE	Smear + Xpert Ultra (trace as positive)	ROSE + Xpert Ultra (trace as positive)	Smear + ROSE + Xpert Ultra (trace as positive)	Smear + Culture + Cytology	Smear + Culture + Cytology + Xpert Ultra (trace as positive)	Smear + Culture + Cytology + ROSE + Xpert Ultra (trace as positive)
Reference standard: culture positive TB diagnosis (category 1)							
Positive tests	14/17	12/17	17/17	17/17	17/17	17/17	17/17
Sensitivity	0.82 (0.73-0.92)	0.71 (0.63-0.78)	1.00 (0.89-1.00)	1.00 (0.89-1.00)	1.00 (0.89-1.00)	1.00 (0.89-1.00)	1.00 (0.89-1.00)
Specificity	0.75 (0.73-0.76)	0.99 (0.97-1.00)	0.74 (0.72-0.75)	0.74 (0.72-0.75)	0.68 (0.67-0.69)	0.67 (0.66-0.68)	0.65 (0.64-0.66)
PPV*	0.36	0.92 (0.78-1.00)	0.4	0.4	0.35	0.34	0.33
NPV+	0.96 (0.94-0.99)	0.95 (0.93-0.97)	1.00 (0.97-1.00)	1.00 (0.97-1.00)	1.00 (0.97-1.00)	1.00 (0.97-1.00)	1.00 (0.97-1.00)
Reference standard: Clinical diagnosis of TB - culture confirmed TB (category 1) and highly probable TB (category 2)							
Positive tests	18/26	15/26	23/26	23/26	23/26	24/26	24/26
Sensitivity	0.69 (0.65-0.74)	0.58 (0.55-0.61)	0.89 (0.82-0.95)	0.89 (0.82-0.95)	0.89 (0.82-0.95)	0.92 (0.85-0.99)	0.92 (0.85-0.99)
Specificity	0.75 (0.73-0.76)	0.99 (0.97-1.00)	0.74 (0.72-0.75)	0.74 (0.72-0.75)	0.68 (0.67-0.69)	0.67 (0.66-0.68)	0.65 (0.64-1.00)
PPV*	0.42	0.94 (0.82-1.00)	0.47	0.47	0.42	0.42	0.41
NPV+	0.90 (0.88-0.92)	0.90 (0.88-0.92)	0.96 (0.94-0.99)	0.96 (0.94-0.99)	0.96 (0.93-0.98)	0.97 (0.94-1.00)	0.97 (0.94-1.00)

*PPV: Positive predictive value

+NPV: Negative predictive value