

Table 3b: Summary of diagnostic indices for combined diagnostic tests in BAL samples

BAL	Smear + Xpert Ultra (trace as positive)	Smear + Culture	Smear + Culture + Xpert Ultra (trace as positive)
Reference standard: culture positive TB from BAL samples (category 1)			
Positive tests	17/21	21/21	21/21
Sensitivity	0.81 (0.74-0.88)	1.00 (0.91-1.00)	1.00 (0.91-1.00)
Specificity	0.99 (0.98-1.00)	0.99 (0.98-1.00)	0.99 (0.98-1.00)
PPV*	0.89 (0.80-0.99)	0.91 (0.84-0.99)	0.91 (0.84-0.99)
NPV+	0.98 (0.98-0.99)	1.00 (0.99-1.00)	1.00 (0.99-1.00)
Reference standard: culture positive TB from all respiratory samples (adjusted category 1)			
Positive tests	20/24	21/24	22/24
Sensitivity	0.83 (0.77-0.90)	0.88 (0.80-0.95)	0.92 (0.84-0.99)
Specificity	0.99 (0.98-1.00)	0.99 (0.98-1.00)	0.99 (0.98-1.00)
PPV	0.91 (0.83-0.99)	0.91 (0.84-0.99)	0.92 (0.84-0.99)
NPV	0.98 (0.98-0.99)	0.99 (0.98-1.00)	0.99 (0.98-1.00)

*PPV: Positive predictive value

+NPV: Negative predictive value