

**Supplementary Table 1 – Procedure conclusiveness and performance following second TTLB**

Variable / Performance measure	N	All patients	Nodule size		P
			≤ 20 mm	> 20 mm	
<i>Procedure conclusiveness</i>					
<b>Conclusive pathology results following two TTLBs</b>					
Yes	474	384 (81.0)	144 (72.7)	240 (87.0)	< 10 <sup>-4</sup>
No			90 (19.0)	54 (27.3)	
<b>Diagnosis of malignancy following two TTLBs (when either TTLB is conclusive)</b>					
Yes	384	342 (89.1)	125 (86.8)	217 (90.4)	0.272
No			42 (10.9)	19 (13.2)	
<i>Performance for the diagnosis of malignancy following two TTLBs</i>					
<b>Se (%)</b>		91.7	86.8	94.8	NA
<b>Sp (%)</b>		100	100	100	
<b>Acc (%)</b>		93.5	90.4	95.7	
<b>PPV (%)</b>		100	100	100	
<b>NPV (%)</b>		76.5	74.0	79.7	
<b>F1 score (%)</b>		95.7	92.9	97.3	

TTLB, transthoracic lung biopsy; NA, not applicable; NS, not significant; Se, sensitivity / recall; Sp, specificity / selectivity; Acc, accuracy; PPV, positive predictive value / precision; NPV, negative predictive value; F1 score, harmonic mean of sensitivity and precision; PTX, pneumothorax; IAH, intra-alveolar hemorrhage.