

Supplementary Table 3. Comparison of $\Delta tdi\%$, diaphragmatic end expiratory thickness (tdi-end expiratory and RSBI during different types of weaning trial (PSV mode and T-piece mode)

Parameter	Sensitivity	Specificity	Positive predictive value	Negative predictive value	Likelihood ratio positive results	Likelihood ratio negative results
Mean $\% \Delta tdi\%$ – total PSV >28.7	93.1	80	96.4	66.7	4.66	0.086
Mean $\% \Delta tdi\%$ – total-T piece >29.71	93.75	50	88.2	66.7	1.87	0.13
Mean tdi-end expiratory –PSV >0.178 cm	72.41	80	95.5	33.3	3.62	33.3
Mean tdi –end expiratory –T piece \leq 0.168 cm	37.5	100	100	28.6	NA	0.63
RSBI –1 minutes min –PSV \leq 96.55	93.1	20	87.1	33.3	1.16	0.34
RSBI –1 minutes min –T piece >74.28	62.5	100	100	40	NA	0.37
RSBI – 5 minutes –PSV \leq 82.35	89.66	40	89.7	40	1.49	0.26
RSBI –5 minutes min –T piece >74.28	43.75	100	100	30.8	NA	0.56

$\Delta tdi\%$: percent change in diaphragmatic thickness; tdi: diaphragmatic thickness; RSBI: rapid shallow breathing index; PSV: pressure support ventilation.