

**Supplementary Table 1. Test Characteristics of Pediatric Acute Respiratory Distress Syndrome Model for the Neutrophil Reporter Assay Using Leave One Out Cross-validation, (n = 18, 9 PARDS)**

Model Variables	XGBoost		Random Forest		SVM	
	Values	95% CI	Values	95% CI	Values	95%CI
True negatives	5	–	5	–	9	–
False positives	4	–	4	–	0	–
True positives	7	–	7	–	8	–
False negatives	2	–	2	–	1	–
Sensitivity	0.77	0.31 – 0.87	0.77	0.31 – 0.87	0.88	0.59 – 1.0
Specificity	0.55	0.30 – 0.94	0.55	0.30 – 0.94	1	0.54 – 0.99
Positive predictive value	0.63	0.40 – 0.96	0.63	0.40 – 0.96	1	0.51 – 0.99
Negative predictive value	0.71	0.22 – 0.84	0.71	0.22 – 0.84	0.9	0.62 – 1.0
Positive likelihood ratio	1.75	0.63 – 7.8	1.75	0.63 – 7.8	–	1.55 – 64.19
Negative likelihood ratio	0.39	0.20 – 1.24	0.39	0.2 – 1.24	0.11	–
Area under the ROC curve	0.73	0.48 – 0.92	0.77	0.48 – 0.92	0.89	0.7 – 1.0

ROC = receiver operating characteristic.

Dashes indicate variables that do not have 95% confidence intervals (CI).