

Table 4. Diagnostic performance of the single biomarkers, Pediatric Emergency Care Applied Research Network (PECARN), Step-by-Step (original) approach, Step-by-Step (modified) approach and Lab-score for predicting invasive bacterial infections

	Sensitivity	NPV	Specificity	PPV	Positive LR	Negative LR	AUC (CI) P value
Step-by-Step (original)	100%	100%	12.4%	4.0%	1.14	0	0.562 (0.392–0.732) 0.526
Step-by-Step (modified)	100%	100%	29.3%	4.9%	1.41	0	0.647 (0.507–0.787) 0.135
PECARN rule	88.9%	98.6%	28.9%	4.3%	1.25	0.384	0.589 (0.420–0.758) 0.364
Lab-score	88.9%	99.5%	81.9%	15.1%	4.91	0.136	0.854 (0.731–0.977) <0.001
PCT \geq 0.5	88.9%	99.5%	78.3%	12.9%	4.10	0.14	0.836 (0.712–0.960) 0.001
PCT \geq 1.7	88.9%	99.6%	90.8%	25.8%	9.62	0.12	0.898 (0.778–1.00) <0.001
ANC \geq 4.09	66.7%	96.5%	33.3%	3.5%	1.00	1.00	0.500 (0.308–0.692) 0.098
ANC \geq 10	44.4%	97.7%	86.8%	10.8%	3.35	0.64	0.656 (0.450–0.862) 0.105
CRP \geq 20	66.7%	98.4%	71.9%	7.89%	2.37	0.46	0.693 (0.511–0.874) 0.049

ANC: absolute neutrophil count; AUC: area under receiver operating characteristic curve; CI: confidence interval; CRP: C-reactive protein; LR: likelihood ratio; NPV: negative predictive value; PCT: procalcitonin; PPV: positive predictive value