

Table 3. Diagnostic performance of single biomarkers, Pediatric Emergency Care Applied Research Network (PECARN) rule, Step-by-Step (original) approach, Step-by-Step (modified) approach and Lab-score for predicting serious bacterial infections

	Sensitivity	NPV	Specificity	PPV	Positive LR	Negative LR	AUC (CI)	P value
Step-by-Step (original)	97.7%	93.5%	16.9%	37.0%	1.18	0.136	0.573 (0.502–0.644)	0.057
Step-by-Step (modified)	91.9%	90.4%	38.4%	42.7%	1.49	0.211	0.651 (0.584–0.718)	<0.001
PECARN rule	88.4%	86.3%	36.6%	41.1%	1.39	0.317	0.625 (0.556–0.694)	0.001
ANC \geq 4.09	80.2%	80.2%	40.1%	40.1%	1.34	0.49	0.602 (0.531–0.673)	0.008
CRP \geq 20	61.6%	81.9%	86.6%	69.7%	4.61	0.44	0.741 (0.672–0.810)	<0.001
Lab-score	46.5%	77.6%	92.4%	75.5%	6.12	0.579	0.695 (0.621–0.768)	<0.001
PCT \geq 0.5	41.9%	74.5%	84.9%	58.1%	2.77	0.68	0.634 (0.559–0.709)	<0.001
ANC \geq 10	27.9%	72.0%	92.4%	64.9%	3.69	0.78	0.602 (0.525–0.678)	0.008
PCT \geq 1.7	27.9%	72.7%	95.9%	77.4%	6.86	0.75	0.619 (0.542–0.696)	0.002

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