

**Table 2 Diagnostic performances of different machine learning predictor models based on the occurrence of IAI and/or spontaneous delivery within 7 days after admission**

IAI and/or spontaneous delivery $\leq$ 7 days										
	Number of variables	Predictors used	AUC (95% CI)	F1 (95% CI)	Sensitivity n (%)	Specificity n (%)	PPV n (%)	NPV n (%)	LR+	LR-
Model 1	4	IL-6, CRP, lactic acid, <i>Lactobacillus</i> genus	85.2(+3.1)	78.4(+3.5)	84.5	78.2	73.2	87.8	3.88	0.2
Model 2	3	IL-6, CRP, lactic acid	84.7(+3.0)	77.7(+3.2)	85.9	75.2	70.9	88.4	3.47	0.19
Model 3	4	IL-6, CRP, pH, cervical length	83.3(+3.1)	77.1(+3.8)	76.1	85.1	78.3	83.5	5.12	0.28
Model 4	3	IL-6, CRP, cervical length	82.2(+3.1)	76.9(+3.4)	84.5	75.2	70.6	87.4	3.41	0.21

Vaginal IL-6 (pg/mL), US Cervical length (mm), maternal C-reactive protein (CRP) concentrations (mg/L), vaginal pH as absolute value; vaginal lactic acid as mg/L; vaginal *Lactobacillus* genus as log number copies gene/ng total DNA. AUC: Area under curve; F1: F1-score; PPV: Positive predictive value; NPV: Negative predictive value; LR: Likelihood ratio; IAI: Intra-amniotic infection.