

**Table 2.** Area under the ROC curve (AUC) for lactate measured by the StatstripLactate®/StatstripXpress® Lactate system within 25 minutes from scalp blood sampling to delivery (N=799). The optimal cut-off lactate value with highest accuracy (maximal sensitivity and specificity) and the likelihood ratios are presented for different neonatal outcome variables.

Outcome	Cases	Non-cases	AUC (95% CI)	Optimal cut-off lactate value	Sensitivity (%)	Specificity (%)	Positive LR (95%CI)	Negative LR (95%CI)
Metabolic acidosis (MA)	17	437	0.87 (0.77-0.97)	5.7	82.4 (56.6-96.2)	80.1 (76.0-83.7)	4.1 (3.1-5.5)	0.2 (0.1-0.6)
pH < 7.0	7	534	0.83 (0.68-0.97)	4.6	85.7 (42.1-99.6)	60.9 (56.6-65)	2.2 (1.6-3)	0.2 (0-1.4)
pH < 7.10	83	459	0.72 (0.66-0.78)	4	75.9 (65.3-84.6)	53.2 (48.5-57.8)	1.6 (1.4-1.9)	0.5 (0.3-0.7)
pH < 7.15	205	353	0.67 (0.62-0.71)	3.6	73.7 (67.0-79.6)	49.9 (44.5-55.2)	1.5 (1.3-1.7)	0.5 (0.4-0.7)
pH < 7.05 + BD <sub>ecf</sub> ≥ 12mmol/L	7	528	0.97 (0.92-1)	5.8	100 (59.0-100)	81.0 (77.3-84.1)	5.2 (4.4-6.2)	0.0 (-)
pH < 7.05 + Lactate > 10mmol/L	16	455	0.87 (0.76-0.97)	5.6	81.3 (54.4-96)	78.9 (74.9-82.6)	3.9 (2.9-5.2)	0.2 (0.1-0.7)
pH < 7.10 + Lactate > 8mmol/L	59	412	0.78 (0.72-0.84)	4.5	78.0 (65.3-87.7)	63.1 (58.3-67.8)	2.1 (1.8-2.5)	0.4 (0.2-0.6)
pH < 7.15 + Lactate ≥ 7mmol/L	152	313	0.72 (0.67-0.77)	4.2	69.1 (61.1-76.3)	62.6 (57-68)	1.9 (1.6-2.2)	0.5 (0.4-0.6)
pH < 7.10 + composite outcome	36	505	0.76 (0.67-0.85)	4.8	72.2 (54.8-85.8)	65.7 (61.4-69.9)	2.1 (1.7-2.7)	0.4 (0.3-0.7)
AS < 4 at 1-minutes	37	761	0.76 (0.68-0.84)	4.5	78.4 (61.8-90.2)	60.1 (56.5-63.6)	2 (1.6-2.4)	0.4 (0.2-0.7)
AS < 7 at 5-minutes	22	776	0.74 (0.63-0.86)	5.2	72.7 (49.8-89.3)	71.8 (68.5-74.9)	2.6 (2-3.4)	0.4 (0.2-0.8)

MA: pH < 7.05 and (BD<sub>ecf</sub> > 10 mmol/L and/or lactate > 10mmol/L), ROC: receiver operating characteristic, LR: Likelihood Ratio, BD<sub>ecf</sub>: Base Deficit in extracellular fluid mmol/L, Composite outcome: one or more of the following, admission to neonatal intensive care unit continuous positive airway pressure therapy, bilevel positive airway pressure, manual ventilation or Apgar score (AS) < 7 at 5 minutes.