

Table 3. Predictive ability of lactate cut-offs for different neonatal outcomes in women (n = 799) with non-reassuring CTG delivered within 25 minutes from FBS. The last column represents the whole cohort with time from FBS to delivery between 0 - 1413 minutes (n = 3334) and the expected intervention frequency (the percentages of pathological values requiring expedition of delivery).

SSLX Cut-offs mmol/L	Outcome variables	Sensitivity (%) (95% CI)	Specificity (%) (95% CI)	Positive LR (95% CI)	Negative LR (95% CI)	Expected intervention SSLX (LP)
>4.8	Metabolic Acidosis	82.4 (56.6-96.2)	66.4 (61.7-70.8)	2.5 (1.9- 3.2)	0.3 (0.1-0.7)	16.2 (16.7)
	pH < 7.05 + BD _{ecf} ≥ 12 mmol/L	100 (59.0-100)	66.5 (62.3-70.5)	3 (2.7-3.4)	0.0 (-)	
	pH < 7.0	71.4 (29.0-96.3)	66.1 (61.9-70.1)	2.1 (1.3-3.4)	0.4 (0.1-1.4)	
	AS < 7 at 5-minutes	72.7 (49.8-89.3)	67.1 (63.7-70.4)	2.2 (1.7-2.9)	0.4 (0.2-0.8)	
	pH < 7.10 + Composite outcome	69.4 (51.9-83.7)	68.1 (63.9-72.2)	2.2 (1.7-2.8)	0.5 (0.3-0.7)	
5.2	Metabolic Acidosis	82.4 (56.6-96.2)	70.7 (66.2-74.9)	2.8 (2.2-3.7)	0.3 (0.1- 0.7)	13.7 (13.3)
	pH < 7.05 + BD _{ecf} ≥ 12 mmol/L	100 (59.0-100)	70.5 (66.4-74.3)	3.4 (3-3.9)	0.0 (-)	
	pH < 7.0	71.4 (29.0-96.3)	70.2 (66.2-74.1)	2.4 (1.5-3.9)	0.4 (0.1-1.3)	
	AS < 7 at 5-minutes	72.7 (49.8-89.3)	71.8 (68.5-74.9)	2.6 (2-3.4)	0.4 (0.2-0.8)	
	pH < 7.10 + Composite outcome	66.7 (49.0-81.4)	72.3 (68.2-76.1)	2.4 (1.8-3.2)	0.5 (0.3-0.7)	
5.6	Metabolic Acidosis	82.4 (56.6-96.2)	78.7 (74.6-82.5)	3.9 (2.9-5.1)	0.2 (0.1-0.6)	10.4 (10.1)
	pH < 7.05 + BD _{ecf} ≥ 12 mmol/L	100 (59.0-100)	77.8 (74.1-81.3)	4.5 (3.9-5.3)	0.0 (-)	
	pH < 7.0	71.4 (29.0-96.3)	77.7 (73.9-81.2)	3.2 (2-5.3)	0.4 (0.1-1.2)	
	AS < 7 at 5-minutes	68.2 (45.1-86.1)	78.2 (75.2- 81.1)	3.1 (2.3-4.3)	0.4 (0.2-0.8)	
	pH < 7.10 + Composite outcome	64 (46.2-79.2)	80 (76.2-83.4)	3.2 (2.4-4.3)	0.5 (0.3-0.7)	

SSLX: StatstripLactate®/StatstripXpress® Lactate system, LR: Likelihood Ratio, LP: LactatePro, Metabolic acidosis: pH <7.05 and (BD_{ecf} > 10mmol/L and/or lactate >10mmol/L), BD_{ecf}: base deficit in extracellular fluid, AS: Apgar Score, 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 AS <7 at 5 minutes.