

Table 1. Maternal and neonatal characteristics of 3334 women with indication for fetal scalp blood sampling (FBS). The results are presented in two cohorts depending on the time interval between FBS to delivery.

	25 minutes or less from FBS to delivery	26 - 1413 minutes from FBS to delivery	p- value
	n = 799	n = 2535	
	Mean ± SD (Median)	Mean ± SD (Median)	
	[range]	[range]	
Scalp lactate (mmol/L) measured by LP	4.3± 1.9 (4.1) [1.0-16.7]	3.1± 1.5 (2.8) [0.3-18.9]	0.000†
Scalp lactate (mmol/L) measured by SSLX	4.3± 2.0 (4.0) [0.9-15.5]	2.9± 1.5 (2.6) [0.4-13.7]	0.000†
Time from FBS to delivery (minutes)	16±6 (16) [0-25]	135±163 (78) [26-1413]	0.000†
Cervix dilation at FBS (cm)	10±1 (10) [3-10]	8±2 (10) [2-10]	0.000†
Maternal age (years)	30.6 ± 5.1 (30.0) [19-48]	30.7 ± 5.2 (30.0) [16-48]	0.475†
Body Mass Index	25.5±5.1 (24.4) [16.3-48.3]	25.6 ± 5 (24.6) [13.9-54.0]	0.63†
Gestational age, days	282 ± 9 (283) [246-297]	282±9.8 (283) [247-299]	0.126†
Infant birth weight, grams	3491±484 (3495) [2040-4940]	3553± 520 (3565) [1584-5340]	0.000†
Umbilical artery pH	7.18 ±0.08 (7.18) [6.94-7.39]	7.20 ± 0.07 (7.21) [6.75-7.46]	0.000†
Umbilical artery BD _{ref} (mmol/L)	6.1 ±3.4 (5.8) [-7-27]	5.4 ±3.4 (5.2) [-8-23]	0.000†
Umbilical artery lactate (mmol/L)	7.3±2.4 (7.0) [1.9-21.0]	6.6±2.4(6.4) [1.2-24.0]	0.000†
	n (%)	n (%)	
Primiparous	571 (71.5%)	1932 (76.2%)	0.008‡
Use of oxytocin (yes)	559 (69.9%)	2044 (80.6%)	0.001‡
Use of epidural (yes)	442 (57.8%)	1779 (72.3%)	0.001‡
Number of women with a fully dilated cervix at FBS.	692 (86.7%)	1399 (55.3%)	0.001‡
Mode of delivery: Normal vaginal delivery	421 (52.7%)	1206 (47.6%)	0.012‡
Instrumental vaginal delivery Fetal Distress	233 (29.2%)	306 (12.1%)	0.001‡
Caesarean Section Fetal Distress	108 (13.5%)	507 (20.0%)	0.001‡
Fetuses with last FBS with LP value > 4.8 mmol/L	251 (33.8%)	265 (11.2%)	0.001‡
Metabolic acidosis	17 (3.7%)	51 (5.4%)	0.231‡
pH < 7.10 + Composite outcome	36 (6.7%)	78 (3.1%)	0.096‡
Apgar score < 7 at 5 minutes	22 (2.8%)	64 (2.5%)	0.702‡
Composite outcome	156 (19.6%)	449 (17.8%)	0.247‡
NICU admission	65 (8.1%)	190 (7.5%)	0.542‡

SSLX: StatstripLactate®/StatstripXpress® Lactate system, SD: standard deviation, Metabolic acidosis defined as pH < 7.05 and $BD_{ecf} > 10\text{mmol/L}$ and/or lactate >10mmol/L in umbilical cord blood, BD_{ecf} : Base Deficit in extracellular fluid, 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 < 7 at 5 minutes. NICU: neonatal intensive care unit, † Kruskal Wallis test, ‡ Fischers exact test, P-values < 0.05 considered significant.