

**Table 4.** Newborns with hypoxic ischemic encephalopathy or metabolic acidosis defined as pH <7.05 and BD<sub>cef</sub> ≥10mmol/L and/or lactate >10mmol/L who had scalp blood sampling within 25 minutes of birth

	<b>Gestationa l week and day</b>	<b>CTG</b>	<b>Time from FBS to birth (min)</b>	<b>Last FBS LP</b>	<b>Last FBS pH</b>	<b>Last FBS SSLX</b>	<b>Delivery mode</b>	<b>Apgar 1- 5- 10 minutes</b>	<b>Umb Artery pH</b>	<b>Umb Artery BD<sub>cef</sub></b>	<b>Umb Artery Lactate</b>	<b>Birth weight (g)</b>	<b>CPAP</b>	<b>NICU</b>	<b>HIE</b>
1	41+3	Suspicious	16	5.7	-	11.6	CS	6-7-9	-	-	-	3950	Yes	Yes	Grade 3
2	38+3	Pathological	23	-	-	14.9	CS	2-7-8	6.94	20	17	2950	Yes	Yes	Grade 2
3	39+6	Pathological	10	12.4	-	15.5	CS	4-6-7	6.96	19	21	3424	Yes	Yes	No
4	42+1	Suspicious	20	4.9	-	4.6	NVD	2-7-8	6.96	11.8	12.7	4410	Yes	Yes	No
5	39+5	Pathological	17	4.6	-	5.8	NVD	6-8-10	6.96	12.2	11.2	4280	Yes	No	No
6	40+5	Pathological	16	6.7	-	6.6	IVD	6-7-7	6.98	10.8	10.2	3030	Yes	No	No
7	38+1	Pathological	16	12.9	-	10.4	CS	3-5-8	6.99	2.6	12.6	4350	Yes	Yes	No
8	42+1	Pathological	9	-	7.10	9	IVD	9-10-10	7.0	27	-	4270	No	No	No
9	39+6	Pathological	18	-	-	7.2	CS	3-6-6	7.02	8.6	12.3	3656	Yes	Yes	No
10	41+0	Pathological	20	5.7	-	8.5	CS	2-10-10	7.01	9	12.4	3930	Yes	No	No
11	39+6	Pathological	18	10.9	-	9.9	CS	6-9-10	7.02	11	14.2	3818	Yes	No	No
12	40+5	Pathological	13	5.6	-	5.7	IVD	6-8-8	7.03	10.2	10.8	3600	Yes	Yes	No
13	40+3	Pathological	19	2.6□	-	2.6	IVD	8-10-10	7.03	6.8	10.8	3775	Yes	No	No
14	39+6	Pathological	20	4.3 <sup>#</sup>	-	4.3	IVD	7-9-10	7.03	11.4	13.8	3846	No	No	No
15	41+5	Pathological	15	-	7.15	8.5	IVD	9-9-10	7.03	13.3	13.8	3590	No	No	No
16	37+0	Pathological	11	11.2	-	10.4	IVD	7-7-9	7.04	12.4	16	2520	No	Yes	No
17	41+2	Suspicious	16	8.0	-	10.9	IVD	9-9-10	7.04	15.8	14.3	3475	Yes	No	No

18	40+5	Pathological	16	5.8	-	7.5	IVD	6-9-9	7.04	8.8	11.8	4030	Yes	No	No

CTG: Cardiotocography, FBS: Fetal Blood Sampling, SSLX/LP/Lactate mmol/L, Umb: umbilical cord, BD<sub>ecf</sub>: Base Deficit extracellular fluid, CPAP: Continuous Positive Airway Pressure, NICU: Neonatal intensive care unit. NVD: Normal Vaginal Delivery, IVD: Instrumental Vaginal Delivery, CS: Caesarean Section for fetal distress, HIE: Hypoxic ischemic encephalopathy. □ Venous umb cord sample: pH 7.20, BD<sub>ecf</sub> 3.6 and lactate 6.6 mmol/L. FBS had been sampled 35 minutes prior the last FBS and showed 2.3 mmol/L, # Venous umb cord sample: pH 7.13, BD<sub>ecf</sub> 12.2 and lactate 11.6 mmol/L, α Venous umb cord sample: pH 7.17, BD<sub>ecf</sub> 8 and lactate 8.6 mmol/L