

## Supplementary materials

Supplementary Table S1. Hemogram variables of healthy and calves with perinatal asphyxia.

Variable		Time of evaluation (hours)			
		Admission (n <sub>H</sub> :10, n <sub>A</sub> :25)	24 (n <sub>H</sub> :10, n <sub>A</sub> :12)	48 (n <sub>H</sub> :10, n <sub>A</sub> :12)	72 (n <sub>H</sub> :10, n <sub>A</sub> :12)
WBC (m/mm <sup>3</sup> )	Healthy	8.75 (5.44-13.04)	6.10 (4.23-9.12)	5.39 (4.46-15.97)	5.80 (4.74-11.40)
	Asphyxia	10.05 (1.90-42.84)	8.10 (4.99-9.70)	9.78 (3.24-48.24)	8.69 (5.05-23.64)
	<i>P value</i>				
RBC (m/mm <sup>3</sup> )	Healthy	7.68 (7.06-9.80)	7.39 (6.71-8.36)	7.71 (5.26-9.42)	7.76 (5.17-8.68)
	Asphyxia	7.91 (4.34-12.83)	7.35 (5.55-7.69)	7.50 (4.91-9.90)	6.91 (5.75-8.96)
	<i>P value</i>				
HCT (%)	Healthy	33.15 (14.4-49.70)	29.60 (27.50-39.60)	30.40 (21.40-37.80)	32.35 (19.90-35.00)
	Asphyxia	33.50 (15.40-64.20)	30.60 (22.80-35.20)	34.90 (14.70-40.70)	31.30 (21.50-36.10)
	<i>P value</i>				
Hb (g/dL)	Healthy	9.15 (7.50-13.20)	9.90 (6.90-13.00)	10.00 (5.60-12.20)	9.55 (6.60-11.50)
	Asphyxia	10.60 (2.50-14.40)	7.10 (4.00-8.50)	9.20 (5.40-13.00)	7.25 (6.40-8.10)
	<i>P value</i>				
THR (m/mm <sup>3</sup> )	Healthy	189.00 (200-310)	184.50 (172-247)	204.00 (143-384)	295.50 (165-385)
	Asphyxia	172.00 (85-424)	131.00 (131-243)	182 (123-404)	175.00 (141-285)
	<i>P value</i>				

n<sub>H</sub>: number of calves included in the healthy group, n<sub>A</sub>: number of calves included in the asphyxia group, WBC (Total leukocyte), RBC (erythrocyte), HCT (hematocrit), Hb (hemoglobin), THR (thrombocyte).

Supplementary Table S2. Scores of histopathological lesions in nonsurvivo calves with perinatal asphyxia.

Animal no.	INC	NF	Gliososis	MCI	Hyperemia	ECS	Edema	Hemorrhage	Total
1	2	2	2	2	4	2	2	2	18
2	1	1	2	1	4	1	2	0	13
3	3	3	3	0	2	1	3	2	17
4	2	2	3	1	2	1	2	0	13
5	3	3	3	2	3	2	3	2	21
6	3	3	3	1	4	3	3	2	22
7	3	4	4	1	4	3	3	1	23
8	1	2	2	0	3	1	2	1	12
9	2	3	2	0	2	1	2	0	12
10	1	2	2	0	4	2	3	1	15
11	3	2	3	0	3	1	2	1	15
12	1	2	2	0	2	1	2	0	10
13	2	3	2	0	2	1	2	0	12

Ischemic neuronal changes (INc); Neuronophagia (NF); Mononuclear cell infiltration (MCI); Endothelial cell swelling (ECS).

Supplementary Table S3. Immunohistochemistry scores in nonsurvivor calves with perinatal asphyxia.

Animal no.	IHC score
1	2
2	3
3	1
4	2
5	2
6	1
7	2
8	0
9	1
10	3
11	2
12	1
13	1
Average	1.61