

Table S1 – Mean values and standard error of the mean for the number of Red Blood Cells obtained, expressed in $\times 10^6 \text{mm}^3$, from Nellore calves during the first month of life and grouped according to type of birth (elective cesarean section without labor induction, elective cesarean section with labor induction and spontaneous vaginal calving).

RED BLOOD CELLS				
X 10^6mm^3				
Time of life (hours or days)	Elective cesarean section without inducing labor	Elective cesarean section with labor induction	Spontaneous vaginal calving	<i>P-Values</i>
0 Hours	7.77 \pm 0.29	8.27 \pm 0.25	8.39 \pm 0.44	0.2170
3 Hours	7.36 \pm 0.36	8.02 \pm 0.28	8.66 \pm 0.48	0.0735
6 Hours	7.20 \pm 0.34	7.84 \pm 0.30	8.18 \pm 0.45	0.1303
12 Hours	6.75 \pm 0.31	7.54 \pm 0.34	7.59 \pm 0.37	0.0294
1 Day	6.45 \pm 0.31	7.22 \pm 0.33	7.32 \pm 0.42	0.1401
2 Days	6.27 \pm 0.30	7.07 \pm 0.33	7.21 \pm 0.38	0.0654
3 Days	6.50 \pm 0.36	7.23 \pm 0.32	7.06 \pm 0.45	0.2172
5 Days	6.48 \pm 0.37	7.46 \pm 0.33	7.10 \pm 0.43	0.0582
7 Days	6.62 \pm 0.31	7.59 \pm 0.34	6.84 \pm 0.46	0.0456
10 Days	7.17 \pm 0.33	8.09 \pm 0.37	7.70 \pm 0.38	0.0602
15 Days	7.07 \pm 0.28	7.88 \pm 0.31	8.04 \pm 0.31	0.0480
30 Days	7.75 \pm 0.43	8.14 \pm 0.46	9.06 \pm 0.30	0.2913

A, B, C - different letters on the line mean statistically significant difference compared with Tukey's test.

Table S2 – Mean values and standard error of the mean obtained for Hemoglobin, expressed in g/dL, of Nellore calves during the first month of life and grouped according to type of birth (elective cesarean section without labor induction, elective cesarean section with labor induction and spontaneous vaginal calving).

HEMOGLOBIN				
g/dL				
Time of life (hours or days)	Elective cesarean section without inducing labor	Elective cesarean section with labor induction	Spontaneous vaginal calving	<i>P-Values</i>
0 Hours	11.29 ± 0.37	11.36 ± 0.46	11.10 ± 0.56	0.4641
3 Hours	10.54 ± 0.49	11.08 ± 0.50	11.25 ± 0.59	0.4681
6 Hours	10.33 ± 0.46	10.63 ± 0.48	10.65 ± 0.50	0.5407
12 Hours	9.71 ± 0.44	10.41 ± 0.52	9.91 ± 0.52	0.2887
1 Day	9.36 ± 0.39	10.05 ± 0.52	9.54 ± 0.56	0.3607
2 Days	9.06 ± 0.38	9.67 ± 0.54	9.26 ± 0.61	0.2652
3 Days	9.19 ± 0.46	9.878 ± 0.53	9.28 ± 0.76	0.3344
5 Days	9.17 ± 0.50	10.22 ± 0.50	9.98 ± 0.73	0.1736
7 Days	9.05 ± 0.41	10.35 ± 0.51	10.01 ± 0.55	0.0648
10 Days	9.33 ± 0.41 ^B	10.76 ± 0.57 ^A	11.59 ± 0.36 ^A	0.0023
15 Days	9.02 ± 0.42 ^B	10.22 ± 0.55 ^A	11.66 ± 0.22 ^A	0.0002
30 Days	9.41 ± 0.46 ^B	10.19 ± 0.51 ^A	12.19 ± 0.20 ^A	0.0019

A, B, C - different letters on the line mean statistically significant difference compared with Tukey's test.

Table S3 – Mean values and standard error of the mean obtained for hematocrit, expressed in %, of Nellore calves during the first month of life and grouped according to type of birth (elective cesarean section without labor induction, elective cesarean section with labor induction and spontaneous vaginal calving).

HEMATOCRIT				
%				
Time of life (hours or days)	Elective cesarean section without inducing labor	Elective cesarean section with labor induction	Spontaneous vaginal calving	<i>P-Values</i>
0 Hours	37.65 ± 1.15	39.01 ± 1.73	36.89 ± 1.69	0.1350
3 Hours	35.50 ± 1.61	37.52 ± 1.68	37.86 ± 2.10	0.4125
6 Hours	34.64 ± 1.54	36.41 ± 1.81	35.80 ± 2.10	0.0384
12 Hours	32.11 ± 1.44	34.60 ± 1.54	33.02 ± 1.88	0.2234
1 Day	30.59 ± 1.43	32.79 ± 1.79	31.34 ± 1.97	0.4015
2 Days	29.02 ± 1.28	31.83 ± 1.89	30.12 ± 1.97	0.1566
3 Days	29.25 ± 1.61	32.00 ± 1.76	29.54 ± 2.39	0.2624
5 Days	28.56 ± 1.68	32.73 ± 1.70	31.70 ± 2.23	0.0829
7 Days	28.46 ± 1.36 ^B	33.01 ± 1.72 ^{AB}	32.54 ± 1.56 ^A	0.0386
10 Days	29.61 ± 1.43 ^B	33.91 ± 1.78 ^A	37.35 ± 1.03 ^A	0.0022
15 Days	28.16 ± 1.35 ^C	32.15 ± 1.71 ^B	38.11 ± 0.68 ^A	0.0001
30 Days	28.21 ± 1.57 ^B	30.79 ± 1.92 ^B	38.18 ± 0.65 ^A	0.0040

A, B, C - different letters on the line mean statistically significant difference compared with Tukey's test.

Table S4 – Mean values and standard error of the mean obtained for Mean Corpuscular Volume (MCV), expressed in fL, of Nellore calves during the first month of life and grouped according to type of birth (elective cesarean section without labor induction, elective cesarean section with labor induction and spontaneous vaginal calving).

MCV				
fL				
Time of life (hours or days)	Elective cesarean section without inducing labor	Elective cesarean section with labor induction	Spontaneous vaginal calving	<i>P-Values</i>
0 Hours	48.76 ± 0.80	47.04 ± 1.10	44.51 ± 1.80	0.0520
3 Hours	48.50 ± 0.80 ^A	46.78 ± 1.03 ^{AB}	44.14 ± 1.76 ^B	0.0417
6 Hours	48.63 ± 0.76 ^A	46.36 ± 1.03 ^{AB}	44.04 ± 1.72 ^B	0.3862
12 Hours	47.79 ± 0.78 ^A	45.79 ± 0.98 ^{AB}	43.80 ± 1.73 ^B	0.0184
1 Day	47.59 ± 0.73 ^A	45.39 ± 1.07 ^{AB}	43.10 ± 1.64 ^B	0.4015
2 Days	46.56 ± 0.79 ^A	44.82 ± 0.98 ^B	41.81 ± 1.52 ^B	0.0114
3 Days	45.74 ± 0.79 ^A	44.13 ± 0.95 ^{AB}	41.70 ± 1.32 ^B	0.0379
5 Days	44.22 ± 0.68	43.86 ± 0.90	44.68 ± 1.34	0.9492
7 Days	43.08 ± 0.73 ^B	43.50 ± 0.89 ^B	48.60 ± 2.22 ^A	0.0165
10 Days	41.42 ± 0.66 ^B	41.99 ± 1.19 ^B	49.41 ± 2.25 ^A	0.0012
15 Days	39.81 ± 0.74 ^B	40.66 ± 1.05 ^B	48.03 ± 1.76 ^A	0.0002
30 Days	36.70 ± 0.96 ^B	37.90 ± 0.79 ^{AB}	42.62 ± 1.32 ^A	0.0031

A, B - different letters on the line mean statistically significant difference compared with Tukey's test.

Table S5 – Mean values and standard error of the mean obtained for Mean Corpuscular Hemoglobin (MCH), expressed in pg, of Nellore calves during the first month of life and grouped according to type of birth (elective cesarean section without labor induction, elective cesarean section with labor induction and spontaneous vaginal calving).

Time of life (hours or days)	MCH <i>pg</i>			<i>P-Values</i>
	Elective cesarean section without inducing labor	Elective cesarean section with labor induction	Spontaneous vaginal calving	
0 Hours	14.56 ± 0.31	13.64 ± 0.25	13.39 ± 0.74	0.1925
3 Hours	14.31 ± 0.25	13.74 ± 0.26	13.11 ± 0.61	0.0983
6 Hours	14.34 ± 0.24 ^A	13.48 ± 0.22 ^{AB}	13.10 ± 0.52 ^B	0.0493
12 Hours	14.34 ± 0.29 ^A	13.69 ± 0.25 ^{AB}	13.11 ± 0.58 ^B	0.0117
1 Day	14.56 ± 0.29	13.85 ± 0.28	13.13 ± 0.59	0.0576
2 Days	14.48 ± 0.26 ^A	13.56 ± 0.24 ^{AB}	12.78 ± 0.44 ^B	0.0022
3 Days	14.38 ± 0.34	13.55 ± 0.24	13.05 ± 0.52	0.0608
5 Days	14.20 ± 0.29	13.63 ± 0.19	14.00 ± 0.44	0.5120
7 Days	13.66 ± 0.26	13.57 ± 0.25	14.79 ± 0.51	0.0626
10 Days	13.01 ± 0.23 ^B	13.26 ± 0.40 ^B	15.24 ± 0.65 ^A	0.0027
15 Days	12.70 ± 0.25 ^B	12.86 ± 0.34 ^{AB}	14.63 ± 0.52 ^A	0.0036
30 Days	12.14 ± 0.50	12.44 ± 0.57	13.50 ± 0.39	0.2557

A, B - different letters on the line mean statistically significant difference compared with Tukey's test.

Table S6 – Mean values and standard error of the mean obtained for the Mean Corpuscular Hemoglobin Concentration (MCHC), expressed in %, of Nellore calves during the first month of life and grouped according to type of birth (elective cesarean section without induction of labor, cesarean section elective with labor induction and spontaneous vaginal calving).

Time of life (hours or days)	MCHC %			<i>P-Values</i>
	Elective cesarean section without inducing labor	Elective cesarean section with labor induction	Spontaneous vaginal calving	
0 Hours	29.94 ± 0.32	29.16 ± 0.26	30.03 ± 0.61	0.1665
3 Hours	29.63 ± 0.36	29.49 ± 0.21	29.73 ± 0.40	0.7276
6 Hours	29.78 ± 0.32	29.24 ± 0.30	29.93 ± 0.86	0.3862
12 Hours	30.24 ± 0.34	30.20 ± 0.33	30.03 ± 0.42	0.5557
1 Day	30.71 ± 0.48	30.69 ± 0.31	30.50 ± 0.35	0.9348
2 Days	31.22 ± 0.21	30.44 ± 0.29	30.68 ± 0.24	0.0703
3 Days	31.49 ± 0.37	30.90 ± 0.21	31.40 ± 0.48	0.4103
5 Days	32.18 ± 0.37 ^A	31.16 ± 0.33 ^B	31.38 ± 0.23 ^{AB}	0.0201
7 Days	31.83 ± 0.36	31.36 ± 0.31	30.63 ± 0.36	0.0757
10 Days	31.55 ± 0.25	31.69 ± 0.36	30.95 ± 0.25	0.3134
15 Days	32.07 ± 0.38 ^A	31.75 ± 0.26 ^A	30.53 ± 0.23 ^B	0.0071
30 Days	33.17 ± 0.83	32.89 ± 1.07	31.77 ± 0.18	0.6246

A, B - different letters on the line mean statistically significant difference compared with Tukey's test.

Table S7 – Mean values and standard error of the mean obtained for mean Serum Iron (SFe), expressed in $\mu\text{L/dL}$, of Nellore calves during the first month of life and grouped according to type of birth (elective cesarean section without labor induction, elective cesarean section with labor induction and spontaneous vaginal calving).

Time of life (hours or days)	SFe $\mu\text{L/dL}$			<i>P</i>-Values
	Elective cesarean section without inducing labor	Elective cesarean section with labor induction	Spontaneous vaginal calving	
0 Hours	154.46 \pm 16.17 ^A	140.80 \pm 11.93 ^A	65.32 \pm 9.19 ^B	0.0004
3 Hours	122.72 \pm 15.83 ^A	103.39 \pm 10.62 ^{AB}	66.36 \pm 7.13 ^B	0.0101
6 Hours	78.93 \pm 13.27	66.18 \pm 8.32	55.77 \pm 7.01	0.3452
12 Hours	50.55 \pm 8.12	46.06 \pm 10.65	41.22 \pm 5.82	0.8046
1 Day	38.40 \pm 7.18	49.11 \pm 12.94	83.52 \pm 19.99	0.0647
2 Days	58.70 \pm 7.94 ^B	71.70 \pm 12.78 ^B	228.06 \pm 49.68 ^A	0.0001
3 Days	58.55 \pm 10.06 ^B	54.11 \pm 11.16 ^B	262.10 \pm 44.08 ^A	0.0001
5 Days	47.71 \pm 6.64 ^B	59.95 \pm 16.01 ^B	273.94 \pm 48.00 ^A	0.0001
7 Days	70.33 \pm 17.19 ^B	54.24 \pm 12.08 ^B	264.15 \pm 50.64 ^A	0.0001
10 Days	55.94 \pm 11.63 ^B	59.64 \pm 18.72 ^B	345.51 \pm 41.54 ^A	0.0001
15 Days	75.89 \pm 20.04 ^B	41.76 \pm 8.03 ^B	369.29 \pm 64.22 ^A	0.0001
30 Days	79.14 \pm 20.42 ^B	123.29 \pm 32.93 ^B	292.03 \pm 33.13 ^A	0.0001

A, B - different letters on the line mean statistically significant difference compared with Tukey's test.

Table S8 – Mean values and standard error of the mean obtained for the Total Capacity to Bind Iron to Transferrin (TIBIC), expressed in $\mu\text{L/dL}$, of Nellore calves during the first month of life and grouped according to type of birth (elective cesarean section without induction of delivery, elective cesarean section with labor induction and spontaneous vaginal calving).

Time of life (hours or days)	TIBIC $\mu\text{L/dL}$			<i>P-Values</i>
	Elective cesarean section without inducing labor	Elective cesarean section with labor induction	Spontaneous vaginal calving	
0 Hours	307.96 \pm 10.84 ^B	321.93 \pm 22.86 ^{AB}	478.32 \pm 32.01 ^A	0.0001
3 Hours	269.12 \pm 12.84 ^B	284.72 \pm 6.76 ^{AB}	466.46 \pm 27.92 ^A	0.0001
6 Hours	240.80 \pm 13.15 ^B	255.14 \pm 11.38 ^{AB}	423.17 \pm 22.78 ^A	0.0001
12 Hours	232.17 \pm 14.17 ^B	206.50 \pm 29.07 ^B	412.00 \pm 21.80 ^A	0.0001
1 Day	223.14 \pm 12.53 ^B	220.02 \pm 28.17 ^B	399.42 \pm 28.84 ^A	0.0001
2 Days	246.90 \pm 12.94 ^B	235.12 \pm 34.52 ^B	434.66 \pm 24.96 ^A	0.0001
3 Days	278.35 \pm 21.37 ^B	226.25 \pm 42.01 ^B	470.10 \pm 28.73 ^A	0.0001
5 Days	295.98 \pm 16.97 ^B	187.20 \pm 38.03 ^B	526.14 \pm 23.76 ^A	0.0001
7 Days	329.33 \pm 20.21 ^B	238.40 \pm 41.16 ^B	578.25 \pm 18.79 ^A	0.0001
10 Days	344.94 \pm 23.27 ^B	271.10 \pm 42.63 ^B	616.91 \pm 25.38 ^A	0.0001
15 Days	353.92 \pm 21.01 ^B	250.83 \pm 49.87 ^B	612.59 \pm 24.43 ^A	0.0001
30 Days	394.07 \pm 28.71 ^B	378.47 \pm 70.53 ^B	590.43 \pm 36.53 ^A	0.0080

A, B - different letters on the line mean statistically significant difference compared with Tukey's test.

Table S9 – Mean values and standard error of the mean obtained for the Transferrin Saturation Index (TSI), expressed in %, of Nellore calves during the first month of life and grouped according to type of birth (elective cesarean section without labor induction, elective cesarean section with labor induction and spontaneous vaginal calving).

Time of life (hours or days)	TSI %			<i>P-Values</i>
	Elective cesarean section without inducing labor	Elective cesarean section with labor induction	Spontaneous vaginal calving	
0 Hours	51.64 ± 5.28 ^B	49.88 ± 2.15 ^B	14.24 ± 1.96 ^A	0.0001
3 Hours	48.17 ± 5.74 ^B	43.48 ± 4.20 ^{AB}	14.60 ± 1.51 ^A	0.0002
6 Hours	31.71 ± 4.55	32.71 ± 4.73	13.42 ± 1.60	0.0114
12 Hours	21.14 ± 2.55 ^{AB}	32.41 ± 3.72 ^B	10.24 ± 1.51 ^A	0.0008
1 Day	17.06 ± 2.82	35.86 ± 3.35	21.28 ± 5.64	0.0293
2 Days	24.22 ± 3.39 ^B	41.61 ± 3.39 ^{AB}	51.75 ± 9.83 ^A	0.0092
3 Days	21.56 ± 3.80 ^B	36.70 ± 5.79 ^{AB}	56.76 ± 9.65 ^A	0.0023
5 Days	16.99 ± 2.63 ^B	28.99 ± 5.19 ^{AB}	52.00 ± 9.33 ^A	0.0009
7 Days	21.86 ± 4.70	25.04 ± 3.72	44.26 ± 7.77	0.0291
10 Days	17.12 ± 3.64 ^B	24.09 ± 4.84 ^{AB}	56.19 ± 6.51 ^A	0.0001
15 Days	22.26 ± 5.15 ^B	28.46 ± 5.12 ^{AB}	59.76 ± 9.88 ^A	0.0028
30 Days	19.26 ± 4.36 ^B	57.97 ± 6.95 ^A	49.48 ± 4.94 ^A	0.0001

A, B - different letters on the line mean statistically significant difference compared with Tukey's test.