

Supplementary Table S6. Variation (mean \pm SD) of serum concentrations of total calcium (Ca), phosphorus (P), and magnesium (Mg) in high-producing Gyr cows grouped according to BCS at calving, on different days relative to calving (0 d) throughout the transition period.

Variable	Group	-21 d	-7 d	0 d	7 d	21 d	42 d
Ca (mmol/L)	HBCS	2.23 \pm 0.11 ^{Aa}	2.25 \pm 0.10 ^{Aa}	2.17 \pm 0.14 ^{Aa}	2.23 \pm 0.13 ^{Aa}	2.27 \pm 0.11 ^{Aa}	2.25 \pm 0.19 ^{Aa}
	NBCS	2.18 \pm 0.13 ^{Aab}	2.23 \pm 0.08 ^{Aab}	2.12 \pm 0.14 ^{Ab}	2.21 \pm 0.14 ^{Aab}	2.26 \pm 0.13 ^{Aa}	2.27 \pm 0.17 ^{Aa}
P (mmol/L)	HBCS	2.24 \pm 0.24 ^{Aa}	2.29 \pm 0.30 ^{Aa}	1.74 \pm 0.49 ^{Ab}	2.04 \pm 0.38 ^{Aab}	2.16 \pm 0.28 ^{Aa}	2.08 \pm 0.24 ^{Aa}
	NBCS	2.23 \pm 0.30 ^{Aa}	2.32 \pm 0.28 ^{Aa}	1.73 \pm 0.53 ^{Ab}	2.02 \pm 0.44 ^{Aab}	2.17 \pm 0.29 ^{Aa}	2.18 \pm 0.30 ^{Aa}
Mg (mmol/L)	HBCS	1.07 \pm 0.11 ^{Aa}	1.01 \pm 0.15 ^{Aab}	0.98 \pm 0.14 ^{Ab}	0.95 \pm 0.11 ^{Ab}	1.03 \pm 0.11 ^{Aab}	1.02 \pm 0.12 ^{Aab}
	NBCS	1.06 \pm 0.10 ^{Aa}	1.01 \pm 0.09 ^{Aab}	0.96 \pm 0.12 ^{Ab}	0.93 \pm 0.10 ^{Ab}	1.02 \pm 0.09 ^{Aab}	1.00 \pm 0.12 ^{Aab}

^{A,B} different letters represent differences between groups ($P < 0.05$).

^{a,b,c} different letters represent differences between moments ($P < 0.05$).

HBCS: high body condition score (>3.5 ; $n = 21$); NBCS: normal body condition score (3.0 - 3.5 ; $n = 20$)