

Supplementary Table S3. Variation (mean \pm SD) of serum concentrations of total calcium (Ca), phosphorus (P), and magnesium (Mg) in high-producing Gyr cows grouped according to parity, 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)	P	2.20 \pm 0.08 ^{Aab}	2.25 \pm 0.06 ^{Aab}	2.22 \pm 0.18 ^{Aab}	2.25 \pm 0.17 ^{Aab}	2.27 \pm 0.12 ^{ABa}	2.17 \pm 0.17 ^{Bb}
	B	2.46 \pm 0.23 ^{Ab}	2.29 \pm 0.24 ^{Aab}	2.20 \pm 0.49 ^{ABb}	2.37 \pm 0.45 ^{Aab}	2.50 \pm 0.37 ^{Aa}	2.27 \pm 0.28 ^{Aab}
	M	2.16 \pm 0.11 ^{Aab}	2.23 \pm 0.09 ^{Aab}	2.11 \pm 0.15 ^{Bb}	2.20 \pm 0.13 ^{Aab}	2.22 \pm 0.11 ^{Bab}	2.24 \pm 0.16 ^{ABa}
P (mmol/L)	P	2.46 \pm 0.23 ^{Aa}	2.29 \pm 0.24 ^{Aa}	1.81 \pm 0.49 ^{Ab}	2.37 \pm 0.45 ^{Aa}	2.50 \pm 0.37 ^{Aa}	2.27 \pm 0.28 ^{Aa}
	B	2.26 \pm 0.25 ^{Aa}	2.23 \pm 0.19 ^{Aa}	1.86 \pm 0.50 ^{Ab}	1.98 \pm 0.27 ^{Bab}	2.19 \pm 0.22 ^{Ba}	2.15 \pm 0.22 ^{Aa}
	M	2.24 \pm 0.31 ^{Aa}	2.35 \pm 0.30 ^{Aa}	1.67 \pm 0.52 ^{Ab}	2.07 \pm 0.46 ^{Ba}	2.13 \pm 0.29 ^{Ba}	2.16 \pm 0.31 ^{Aa}
Mg (mmol/L)	P	1.24 \pm 0.16 ^{Aa}	1.07 \pm 0.14 ^{Aa}	1.00 \pm 0.13 ^{Aa}	1.00 \pm 0.14 ^{Aa}	1.05 \pm 0.18 ^{Aa}	1.04 \pm 0.28 ^{Aa}
	B	1.12 \pm 0.09 ^{Aa}	1.04 \pm 0.12 ^{Aab}	0.91 \pm 0.10 ^{Ab}	0.97 \pm 0.10 ^{Ab}	1.08 \pm 0.10 ^{Aab}	1.06 \pm 0.08 ^{Aab}
	M	1.04 \pm 0.09 ^{Aa}	1.00 \pm 0.09 ^{Aab}	0.97 \pm 0.13 ^{Aab}	0.91 \pm 0.10 ^{Ab}	1.01 \pm 0.09 ^{Aab}	0.98 \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)

P: primiparous (n = 26); B: biparous (n = 21); M: multiparous (n = 17)