

Supplementary Table S9. Variation (mean \pm SD) of serum concentrations of total calcium (Ca), phosphorus (P), and magnesium (Mg) in Gyr cows grouped according to milk yield on different days relative to calving (0 d) throughout of the transition period.

Variable	Group	-21 d	-7 d	0 d	7 d	21 d	42 d
Ca (mmol/L)	HP	2.23 \pm 0.09 ^{Aab}	2.29 \pm 0.09 ^{Aa}	2.15 \pm 0.14 ^{Ab}	2.22 \pm 0.15 ^{Aab}	2.30 \pm 0.10 ^{Aa}	2.31 \pm 0.11 ^{Aa}
	MP	2.19 \pm 0.12 ^{Aab}	2.22 \pm 0.09 ^{Aab}	2.17 \pm 0.13 ^{Ab}	2.23 \pm 0.12 ^{Aab}	2.27 \pm 0.13 ^{Aa}	2.26 \pm 0.16 ^{Aa}
P (mmol/L)	HP	2.32 \pm 0.24 ^{Aa}	2.33 \pm 0.20 ^{Aa}	1.55 \pm 0.44 ^{Bd}	1.87 \pm 0.28 ^{Bc}	2.04 \pm 0.24 ^{Bbc}	2.15 \pm 0.21 ^{Aab}
	MP	2.21 \pm 0.27 ^{Aa}	2.26 \pm 0.32 ^{Aa}	1.97 \pm 0.50 ^{Ab}	2.08 \pm 0.39 ^{Aab}	2.23 \pm 0.24 ^{Aa}	2.15 \pm 0.21 ^{Aab}
Mg (mmol/L)	HP	1.09 \pm 0.08 ^{Aa}	1.05 \pm 0.11 ^{Aab}	1.01 \pm 0.12 ^{Ab}	0.98 \pm 0.09 ^{Ab}	1.06 \pm 0.08 ^{Aab}	1.06 \pm 0.010 ^{Aab}
	MP	1.08 \pm 0.12 ^{Aa}	1.01 \pm 0.12 ^{Ab}	0.91 \pm 0.11 ^{Bc}	0.93 \pm 0.11 ^{Ac}	1.04 \pm 0.09 ^{Aab}	1.02 \pm 0.10 ^{Aab}

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

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

HP: high production (>30 kg/day; $n = 22$); MP: moderate production (20-30 kg/day; $n = 30$)