Supplementary Table S1. Variation (mean ± SD) of body condition score (BCS), serum concentrations of non-esterified fatty acids (NEFA), beta-hydroxybutyrate (BHB), and cholesterol, and plasma glucose concentrations 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
BCS	P	3.30 ± 0.19^{Aa}	3.29 ± 0.20^{Aa}	3.29 ± 0.20^{Aab}	3.17 ± 0.25^{Bb}	3.10 ± 0.27^{Abc}	3.02 ± 0.46^{Bc}
	B	3.38 ± 0.15^{Aab}	3.42 ± 0.14^{Aa}	3.42 ± 0.14^{Aa}	3.35 ± 0.17^{Aab}	3.25 ± 0.16^{Ab}	3.20 ± 0.19^{Ab}
	M	3.35 ± 0.12^{Aa}	3.35 ± 0.17^{Aa}	3.35 ± 0.17^{Aa}	3.30 ± 0.16^{ABa}	3.22 ± 0.21^{Aa}	3.25 ± 0.21^{Aa}
NEFA (mmol/L)	P	0.26 ± 0.04^{Ab}	0.30 ± 0.14^{Ab}	0.79 ± 0.35^{Aa}	0.72 ± 0.46^{Aab}	0.50 ± 0.40^{Ab}	0.54 ± 0.31^{Aab}
	B	0.23 ± 0.13^{Ac}	0.29 ± 0.22^{Ac}	0.80 ± 0.33^{Aab}	0.96 ± 0.66^{Aa}	0.55 ± 0.39^{Abc}	0.63 ± 0.51^{Ab}
	M	0.38 ± 0.18^{Ab}	0.52 ± 0.46^{Ab}	0.90 ± 0.30^{Aa}	0.69 ± 0.46^{Aab}	0.52 ± 0.54^{Ab}	0.74 ± 0.51^{Aab}
BHB (mmol/L)	P	0.47 ± 0.10^{Ab}	0.48 ± 0.11^{Ab}	0.43 ± 0.19^{Ab}	0.68 ± 0.24^{Aa}	0.57 ± 0.29^{Aab}	0.44 ± 0.12^{Bb}
	B	0.36 ± 0.09^{Ab}	0.45 ± 0.10^{Ab}	0.44 ± 0.18^{Ab}	0.69 ± 0.27^{Aa}	0.60 ± 0.33^{Aab}	0.62 ± 0.36^{Aab}
	M	0.36 ± 0.13^{Ab}	0.43 ± 0.15^{Ab}	0.48 ± 0.10^{Ab}	0.64 ± 0.23^{Aab}	0.46 ± 0.22^{Ab}	0.69 ± 0.56^{Aa}
Glucose (mmol/L)	P	2.14 ± 1.15^{Ab}	3.06 ± 0.63^{Ab}	6.64 ± 2.17^{Aa}	3.43 ± 0.74^{Ab}	3.55 ± 0.60^{Ab}	3.47 ± 0.67^{Ab}
	B	2.99 ± 0.64^{Ab}	2.98 ± 0.63^{Ab}	6.13 ± 2.98^{Aa}	3.26 ± 0.81^{Ab}	3.29 ± 0.65^{Ab}	3.29 ± 0.68^{Ab}
	M	3.05 ± 0.45^{Ab}	2.98 ± 0.37^{Ab}	6.12 ± 3.04^{Aa}	3.52 ± 0.75^{Ab}	3.58 ± 0.92^{Ab}	3.10 ± 0.92^{Ab}
Cholesterol (mmol/L)	P	2.54 ± 1.10^{Acd}	2.55 ± 0.47^{Acd}	2.32 ± 0.41^{Ad}	2.87 ± 0.68^{Ac}	4.03 ± 0.79^{Bb}	5.77 ± 1.32^{ABa}
	B	2.71 ± 0.44^{Ab}	2.75 ± 0.49^{Ab}	2.59 ± 0.46^{Ab}	3.19 ± 0.70^{Ab}	4.94 ± 0.76^{Aa}	5.31 ± 1.19^{Ba}
	M	2.46 ± 0.41^{Ac}	2.43 ± 0.49^{Ac}	2.24 ± 0.32^{Ac}	2.74 ± 0.66^{Ac}	4.40 ± 1.13^{ABb}	6.31 ± 1.56^{Aa}

^{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)