

Supplementary Table S2. Variation (mean \pm SD) of serum concentrations of total proteins (TP) and albumin, and serum aspartate aminotransferase (AST) and gamma-glutamyltransferase (GGT) activities 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 |
|---------------|-------|---------------------------------|---------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| TP (g/L) | P | 72.00 \pm 2.00 ^{Cb} | 71.46 \pm 4.85 ^{Bb} | 71.34 \pm 7.12 ^{Bb} | 75.53 \pm 5.94 ^{Ba} | 78.26 \pm 6.17 ^{Ba} | 76.80 \pm 5.72 ^{Ba} |
| | B | 77.70 \pm 5.19 ^{Bc} | 76.40 \pm 6.32 ^{Ac} | 77.30 \pm 5.95 ^{Ac} | 78.05 \pm 5.73 ^{ABc} | 82.55 \pm 4.00 ^{Ba} | 82.45 \pm 3.70 ^{Aab} |
| | M | 83.11 \pm 9.81 ^{Ab} | 81.52 \pm 9.61 ^{Ab} | 80.41 \pm 7.89 ^{Ab} | 81.41 \pm 9.00 ^{Ab} | 90.29 \pm 9.06 ^{Aa} | 87.58 \pm 10.28 ^{Aa} |
| Albumin (g/L) | P | 32.50 \pm 2.88 ^{Aa} | 32.50 \pm 3.27 ^{Aa} | 32.61 \pm 3.62 ^{Aa} | 32.50 \pm 4.35 ^{Ba} | 34.38 \pm 3.69 ^{Ba} | 34.92 \pm 5.90 ^{Aa} |
| | B | 32.75 \pm 2.33 ^{Ab} | 34.40 \pm 2.47 ^{Aab} | 34.90 \pm 2.46 ^{Aab} | 35.40 \pm 6.18 ^{Aab} | 37.35 \pm 4.82 ^{Aa} | 37.05 \pm 4.47 ^{Aa} |
| | M | 32.52 \pm 3.57 ^{Ab} | 32.70 \pm 3.11 ^{Ab} | 33.64 \pm 3.40 ^{Ab} | 32.82 \pm 2.96 ^{ABb} | 37.52 \pm 6.65 ^{Aa} | 34.76 \pm 2.63 ^{Aab} |
| AST (U/L) | P | 74.92 \pm 24.97 ^{Ab} | 82.61 \pm 48.03 ^{Ab} | 78.65 \pm 19.96 ^{Ab} | 103.57 \pm 47.40 ^{Aa} | 77.30 \pm 19.58 ^{Ab} | 67.80 \pm 12.90 ^{Ab} |
| | B | 61.40 \pm 11.02 ^{Ab} | 64.85 \pm 15.93 ^{Bb} | 72.15 \pm 11.78 ^{Ab} | 93.20 \pm 27.67 ^{ABa} | 71.35 \pm 12.70 ^{Ab} | 72.40 \pm 14.31 ^{Ab} |
| | M | 59.88 \pm 10.88 ^{Ab} | 62.35 \pm 7.66 ^{Bb} | 69.76 \pm 27.68 ^{Aab} | 85.23 \pm 25.98 ^{Ba} | 70.52 \pm 20.41 ^{Aab} | 69.64 \pm 14.46 ^{Aab} |
| GGT (U/L) | P | 27.50 \pm 3.78 ^{Ab} | 32.11 \pm 4.36 ^{Ab} | 49.53 \pm 30.92 ^{Aa} | 33.53 \pm 9.19 ^{Ab} | 30.26 \pm 6.35 ^{Ab} | 26.19 \pm 4.82 ^{Ab} |
| | B | 25.30 \pm 5.66 ^{Ab} | 31.10 \pm 5.27 ^{Aab} | 37.65 \pm 8.62 ^{Ba} | 29.00 \pm 5.80 ^{Aab} | 29.50 \pm 5.80 ^{Aab} | 31.20 \pm 8.87 ^{Aab} |
| | M | 27.88 \pm 6.31 ^{Ab} | 32.00 \pm 6.43 ^{Aab} | 42.11 \pm 15.75 ^{ABa} | 37.23 \pm 27.40 ^{Aab} | 38.41 \pm 25.49 ^{Aab} | 33.47 \pm 9.34 ^{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)