Variation in blood serum proteins and association with somatic cell count in dairy cattle from multi-breed herds

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**Supplementary Table S1** *Holstein Friesian: reference intervals (*95% Confidence Intervals) *of blood concentration of total protein, albumin and globulin, and of albumin:globulin ratio, according to parity and days in milk1*

|  |  |
| --- | --- |
| Item | Days in milk, d |
| 5 - 65 | 65 - 125 | 125 - 185 | 185 - 245 | > 245 |
| Total protein, g/L |  |  |  |  |  |
| -        Parity 1 | 71.8-75.5 | 71.8-76.0 | 70.3-74.1 | 72.9-77.0 | 71.3-74.1 |
| -        Parity 2 | 72.2-76.2 | 75.9-79.8 | 74.8-79.4 | 72.2-76.8 | 72.7-75.7 |
| -        Parity 3 | 72.4-76.9 | 73.3-77.8 | 74.5-79.0 | 72.2-79.2 | 72.6-76.8 |
| -        Parity ≥4 | 71.1-75.7 | 75.0-80.3 | 74.7-81.3 | 75.1-80.4 | 73.8-77.6 |
| Albumin, g/L |  |  |  |  |  |
| -        Parity 1 | 29.4-30.7 | 29.4-31.0 | 29.9-31.3 | 30.4-31.9 | 30.4-31.5 |
| -        Parity 2 | 30.0-31.5 | 30.0-31.5 | 30.0-31.7 | 30.1-31.8 | 30.3-31.4 |
| -        Parity 3 | 29.6-31.3 | 29.9-31.6 | 29.8-31.4 | 28.3-30.8 | 29.9-31.4 |
| -        Parity ≥4 | 29.5-31.3 | 29.2-31.2 | 28.6-31.0 | 30.0-31.9 | 30.3-31.7 |
| Globulin, g/L |  |  |  |  |  |
| -        Parity 1 | 41.7-45.4 | 41.6-45.9 | 40.1-44.0 | 41.8-46.0 | 40.4-43.2 |
| -        Parity 2 | 41.5-45.6 | 45.0-49.0 | 43.9-48.6 | 41.1-45.8 | 41.8-44.9 |
| -        Parity 3 | 42.0-46.6 | 42.6-47.2 | 43.8-48.4 | 42.6-49.8 | 42.0-46.2 |
| -        Parity ≥4 | 41.2-45.8 | 43.9-49.5 | 45.0-51.7 | 44.0-49.4 | 42.9-46.8 |
| Albumin:globulin |  |  |  |  |  |
| -        Parity 1 | 0.67-0.75 | 0.66-0.74 | 0.71-0.79 | 0.68-0.77 | 0.72-0.78 |
| -        Parity 2 | 0.68-0.76 | 0.61-0.69 | 0.63-0.73 | 0.67-0.76 | 0.68-0.75 |
| -        Parity 3 | 0.65-0.74 | 0.65-0.74 | 0.61-0.70 | 0.58-0.72 | 0.66-0.75 |
| -        Parity ≥4 | 0.65-0.74 | 0.60-0.72 | 0.56-0.70 | 0.62-0.72 | 0.66-0.74 |

195% Confidence Intervals obtained fitting a model which considered the three-way interaction breed × days in milk × parity.