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

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**Supplementary Table S2** *Brown Swiss: 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 milk*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Item | Days in milk, d | | | | |
| 5 - 65 | 65 - 125 | 125 - 185 | 185 - 245 | > 245 |
| Total protein, g/L |  |  |  |  |  |
| -        Parity 1 | 70.8-73.9 | 70.0-73.8 | 70.7-75.4 | 70.4-73.9 | 70.4-73.1 |
| -        Parity 2 | 70.7-74.3 | 72.4-76.1 | 72.1-76.4 | 71.2-75.2 | 71.5-74.3 |
| -        Parity 3 | 71.5-75.1 | 72.7-76.9 | 72.3-76.6 | 73.2-77.5 | 71.1-74.5 |
| -        Parity ≥4 | 73.2-76.8 | 74.4-78.0 | 73.9-77.5 | 71.9-76.3 | 73.7-76.9 |
| Albumin, g/L |  |  |  |  |  |
| -        Parity 1 | 28.7-29.8 | 29.7-31.1 | 30.1-31.8 | 30.0-31.3 | 30.4-31.5 |
| -        Parity 2 | 29.6-30.9 | 30.1-31.5 | 29.7-31.3 | 30.4-31.9 | 30.7-31.8 |
| -        Parity 3 | 29.6-30.9 | 30.5-32.0 | 30.5-32.1 | 30.4-32.0 | 30.3-31.6 |
| -        Parity ≥4 | 29.6-31.0 | 29.9-31.2 | 29.9-31.2 | 30.4-32.0 | 30.8-32.0 |
| Globulin, g/L |  |  |  |  |  |
| -        Parity 1 | 41.4-44.5 | 39.5-43.4 | 39.8-44.6 | 39.7-43.3 | 39.4-42.2 |
| -        Parity 2 | 40.4-44.1 | 41.6-45.3 | 41.6-46.0 | 40.0-44.2 | 40.2-43.1 |
| -        Parity 3 | 41.2-44.8 | 41.3-45.6 | 40.9-45.4 | 41.9-46.3 | 40.2-43.6 |
| -        Parity ≥4 | 42.7-46.4 | 42.8-46.6 | 42.8-46.5 | 40.7-45.2 | 42.3-45.6 |
| Albumin:globulin |  |  |  |  |  |
| -        Parity 1 | 0.65-0.72 | 0.70-0.78 | 0.70-0.80 | 0.71-0.78 | 0.74-0.79 |
| -        Parity 2 | 0.70-0.77 | 0.68-0.76 | 0.66-0.75 | 0.71-0.79 | 0.73-0.79 |
| -        Parity 3 | 0.68-0.75 | 0.68-0.77 | 0.69-0.78 | 0.67-0.76 | 0.72-0.79 |
| -        Parity ≥4 | 0.65-0.72 | 0.65-0.72 | 0.65-0.72 | 0.69-0.78 | 0.69-0.76 |

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