Supplementary Table 2. Results from univariable contingency table analyses with presence of a sole ulcer (SU) at early lactation as an outcome. Sole soft tissue thickness (SSTT) is grouped into terciles. Likelihood ration testing was used to obtain P values.

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| --- | --- | --- | --- |
| **Explanatory variable**  | **Category**  | **Prevalence of cows with a SU at early lactation** | **P value**  |
| Farm  | 1 | 11.38% | 0.2289 |
| 2 | 16.18% |
| 3 | 7.69% |
| Parity  | 1 | 9.85% | 0.0121 |
| 2 | 5.56% |
| ≥3 | 15.69% |
| Season | Spring  | 10.29% | 0.0221 |
| Summer  | 9.78% |
| Autumn | 4.00% |
| Winter | 20.78% |
| Mastitis within 30 days of calving | No | 10.36% | 0.01 |
| Yes | 33.33% |
| SSTT at pre-calving | 1 | 12.16% | 0.526 |
| 2 | 11.29% |
| 3 | 8.18% |
| SSTT at fresh  | 1 | 13.41% | 0.1865 |
| 2 | 13.64% |
| 3 | 7.84% |
| SSTT at early lactation | 1 | 13.97% | 0.1444 |
| 2 | 6.48% |
| 3 | 11.85% |
| BCS at pre-calving | <2.5 | 0.00% | 0.6608 |
| 2.5 to 3 | 12.36% |
| >3 | 10.00% |
| BCS at fresh  | <2.5 | 0.00% | 0.6174 |
| 2.5 to 3 | 12.32% |
| >3 | 9.59% |
| BCS at early lactation | <2.5 | 21.09% | 0.0005 |
| 2.5 to 3 | 7.49% |
| >3 | 8.70% |

BCS= Body Condition Score