

Umbilical disorders scoring system in calves

Animal identification: _____

Age: _____ **Sex:** _____ **Breed:** _____ **Farm:** _____ **Date:** _____

Umbilical thickening (external palpation)

- 0 - No thickening of the umbilical region (Normal).
- 1 - Mild thickening.
- 2 - Moderate thickening.
- 3 - Intense thickening.

Umbilical thickening in the abdominal region (internal palpation)

- 0 - No thickening.
- 1 - Presence of thickening.

Pain during palpation

- 0 - Absent.
- 1 - Present.

Presence of secretion

- 0 - No secretion.
- 1 - Hemorrhagic (bloody) secretion.
- 2 - Purulent secretion.

Umbilical hernia

- 0 - Not observed/palpated.
- 1 - Palpated by deep palpation.
- 2 - Observed on inspection.

Involvement of umbilical structures (arteries, vein, urachus)

- 0 - No involvement.
- 1 - Involvement of one structure.
- 2 - Involvement of two or more structures.

Systemic alterations

- 0 - None.
- 1 - Presence of fever, polyarthritis, diarrhea, nasal discharge, or decreased level of consciousness.

Total Score: _____

References

Carvalho AU, Silva J, Facury Filho EJ, Ferreira PM, Coelho SG. Principais doenças na criação de bezerros leiteiros. Cad Tec Vet Zootec. 2022;102:173 p.

Steerforth DD, Van Winden S. Development of clinical sign-based scoring system for assessment of omphalitis in neonatal calves. Vet Rec. 2018;182(19):549. <https://doi.org/10.1136/vr.104213>