

Accepted Manuscript

Title: Validation of a clinical scoring system for bovine respiratory disease complex diagnosis in preweaned dairy calves using a Bayesian framework

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PII: S0167-5877(18)30028-X
DOI: <https://doi.org/10.1016/j.prevetmed.2018.05.004>
Reference: PREVET 4464

To appear in: *PREVET*

Received date: 12-1-2018
Revised date: 1-5-2018
Accepted date: 2-5-2018

Please cite this article as: Buczinski S, Fecteau G, Dubuc J, Francoz D, Validation of a clinical scoring system for bovine respiratory disease complex diagnosis in preweaned dairy calves using a Bayesian framework, *Preventive Veterinary Medicine* (2018), <https://doi.org/10.1016/j.prevetmed.2018.05.004>

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Validation of a clinical scoring system for bovine respiratory disease complex diagnosis in preweaned dairy calves using a Bayesian framework.

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Highlights

- Clinical signs of bovine respiratory disease (BRD) in calves were assessed for their diagnostic accuracy in a Bayesian framework
- A prediction rule using thoracic ultrasound as an imperfect test for BRD diagnosis was modeled
- Selection of the optimal threshold for case definition was proposed accounting for misclassification cost term analysis.
- Probability of active infection of the lower respiratory tract was determined for all 64 clinical signs combinations

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