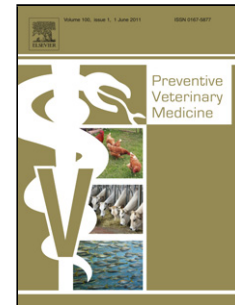


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Authors: K.J. Stanger, H. McGregor, M. Marenda, J.M. Morton, J.W.A. Larsen



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**A longitudinal study of faecal shedding of *Yersinia enterocolitica* and *Yersinia pseudotuberculosis* by Merino lambs in south-eastern Australia.**

KJ Stanger<sup>a\*</sup>, H McGregor<sup>b</sup>, M Marenda<sup>a</sup>, JM Morton<sup>c</sup> and JWA Larsen<sup>d</sup>

\*Corresponding author [kelly.stanger@unimelb.edu.au](mailto:kelly.stanger@unimelb.edu.au) , ph: +61 397312310, +61 487 071 347

<sup>a</sup>University of Melbourne, Faculty of Veterinary and Agricultural Sciences, The University of Melbourne, 250 Princes Highway, Werribee, Victoria 3030

<sup>b</sup>Redefining Agriculture Pty Ltd, PO Box 723, Brunswick Lower, VIC 3056

<sup>c</sup>Jemora Pty Ltd., PO Box 2277, Geelong 3220, Victoria, Australia

<sup>d</sup>Mackinnon Project, Faculty of Veterinary and Agricultural Sciences, The University of Melbourne, 250 Princes Highway, Werribee, Victoria 3030

**Abstract**

A prospective longitudinal study was conducted to investigate potential risk factors for faecal shedding of *Yersinia enterocolitica* and *Y. pseudotuberculosis* by Merino lambs in four flocks in south-eastern Australia. The primary aims of the study were to determine the seasonal patterns of shedding of pathogenic *Y. enterocolitica* and *Y. pseudotuberculosis*, and to evaluate putative risk factors for faecal shedding of these organisms, including worm egg count, live-weight and growth rate.

The risk of shedding varied markedly between *Yersinia* spp., farms, seasons and years. Shedding of *Y. pseudotuberculosis* occurred predominately in winter, whereas *Y. enterocolitica* was commonly isolated from faeces throughout the year. Moderate to high prevalences of shedding of each organism occurred in the absence of outbreaks of yersiniosis. In general, for shedding of *Y. pseudotuberculosis*, animals

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