



340 Research paper

**Efficacy of non-antibiotic treatment options for digital dermatitis on an organic dairy farm**

by Paudyal, S., Manriquez, D., Velasquez, A., Shearer, J.K., Plummer, 2020 The Veterinary Journal 255: 105417

In **Significant Impact Groups:**

Specific alternatives \ Other

Species targeted: Dairy;

Age: Adult;

**Summary:**

The objective of this study was to evaluate the efficacy of two non-antibiotic treatment options for digital dermatitis (DD) (1) topical application of copper sulfate and iodine (CUI); (2) topical application of honey and iodine (HOI); and (3) control subject to no treatment (CON). A randomized clinical trial was conducted using 70 multiparous Holstein cows with an early DD lesion at a USDA certified organic dairy farm in Northern Colorado, USA. The two non-antibiotic formulations resulted in an earlier transition to mature lesions compared with the control group. The CUI combination was the most effective treatment in reducing lesion size, pain, and lameness in affected cows. However, this combination had short-term efficacy, which did not persist throughout the duration of the study. The HOI combination produced only transient reduction in lesion size.

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**Where to find the original material:**

<http://www.sciencedirect.com/science/article/pii/S1090023319301509>;

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