

## WHITEPAPER

# Powerful prevention with Intra Hoof-fit Spray



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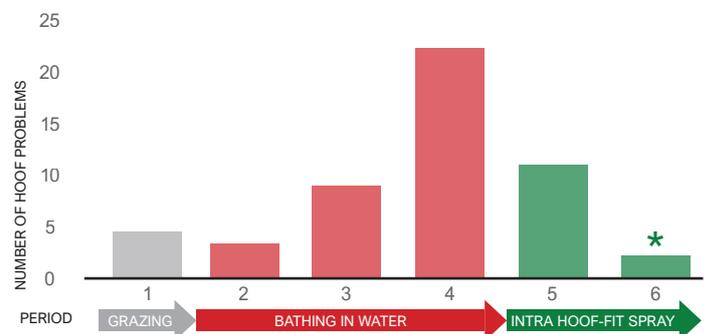
A Dutch national research institute, which experienced a sudden increase of hoof problems, started a once-a-week herd protocol with Intra Hoof-fit Spray and succeeded to control the situation within a timeframe of eight weeks.

Traditional hoof bathing strategies may be effective in the prevention of hoof problems, but only when the right product (Intra Hoof-fit Bath<sup>1</sup>) and protocol (optimal frequency, location, refreshing, etc.) are used. We developed and launched Intra Hoof-fit Spray as a ready-to-use hoof spray innovation, based on the Hoof-fit technology of chelated minerals with a proven long-lasting adhesion even to wet hooves<sup>2</sup>. This enables farmers to apply fresh product on the right spot on every single hoof using for example a low-pressure or automatic sprayer.

A Dutch national research institute with a herd size of approximately 45 lactating dairy cows was performing hoof checks and individual treatment of hoof problems with a four-week interval. During the end of the grazing period of 2019 (period 1), four hoof problems were individually treated during this four-week interval (Figure 1). At the start of the indoor winter season 2019/2020, an experimental hoof bathing protocol with only water for a couple of times per week was started, which unexpectedly resulted in a sudden increase to 23 hoof problems (period 2 to 4). This means that half of the animals was suddenly affected!



### HOOF PROBLEMS PER 4-WEEK PERIOD



**Figure 1.** Hoof problems per 4 week period rapidly increased during experimental bathing and were quickly reduced again by Intra Hoof-fit Spray application.

\* Lesions only on front legs (Intra Hoof-fit Spray was only applied on hind legs)

In order to reverse these problems, they prematurely cancelled the bathing trial and started a herd protocol by weekly spraying the hind legs of all animals with Intra Hoof-fit Spray. Already in the first four-week interval using Intra Hoof-fit Spray (period 5), the number of cases dropped to 11. This further decreased to only two affected front legs in the last four-week interval (period 6). This observation emphasizes the importance of spraying all feet, because the spray was applied only on the hind legs. Please note that animals with severe hoof problems during all time periods were treated individually.

### **THESE RESULTS DEMONSTRATE:**

- One time a week preventive application of Intra Hoof-fit Spray is able to reduce a significant level of hoof problems within eight weeks.
- This realized reduction during the challenging indoor season (period 5 and 6 were rainy winter conditions) was even better than the level of hoof problems typically observed during the problem-free grazing season.
- Don't forget to spray the front legs.

**INTRA HOOF-FIT SPRAY IS THUS AN EASY AND EFFECTIVE METHOD TO OPTIMALLY SUPPORT HOOF CONDITION.**

### **REFERENCES**

1 Jacobs, C., Beninger, C., Hazlewood, G. S., Orsel, K., & Barkema, H. W. (2019). Effect of footbath protocols for prevention and treatment of digital dermatitis in dairy cattle: A systematic review and network meta-analysis. *Preventive veterinary medicine*, 164, 56-71.

2 Roijackers DDJAM, Lammers G, Kloosterman P (2019). Spot treatment, not pit treatment: Evaluating claw contact time of a spray product under field conditions. Proceedings of the 12th International conference on Lameness in Ruminants, Tokyo, Japan.