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Dairy & Livestock

Lameness in dairy cattle is costly

BY AERICA BJURSTROM

IGITAL dermatitis has been in U.S. cattle herds for more than two decades. More commonly known as hairy heel warts, digital dermatitis poses a variety of threats to your dairy herd. This disease is caused by a mixture of different bacteria. Anaerobic bacteria are found in the lesions associated with the infection.

Digital dermatitis is not foot rot; however, both conditions may occur con-



currently. Digital dermatitis is one cause of dairy cattle lameness. Lameness in dairy cattle has been estimated to cost \$90 to \$300 per

cow. Cost of treatment, decreased fertility, milk yield loss and decreased longevity in the herd are all underlying expenses of lameness, not to mention the labor costs associated with treatment.

No cure

Prevalence of digital dermatitis in dairy herds varies depending on herd management. Detection of the condition is a key factor to managing it. Once a cow has digital dermatitis, she cannot be cured, only managed. Risk factors for digital dermatitis are poor hygiene, biosecurity and environment. Animals at an increased risk are nutritionally deficient, such as young cattle and fresh cows. In addition, animals with foot injury and/or skin trauma around the hoof caused by chemical or physical injury are at a higher risk of being infected.

Preventing digital dermatitis from spreading in a herd can be managed through footbath use. It is recommended that open lesions be detected and topically treated before sending the cow



HEALTHY HOOF: This dairy cow's hoof is healthy and lesion-free.

through a footbath. Consult your veterinarian about topical treatment options. Effectiveness of footbaths in preventing infectious lesions is dependent upon a number of factors, including footbath solution, frequency of changing solutions, footbath dimensions, footbath placement and animal hygiene.

Dr. Dorte Dopfer from the University of



ACTIVE LESION: This is an active, proliferative lesion on a cow's hoof.

Wisconsin-Madison School of Veterinary Medicine stresses that a one-size-fits-all footbath protocol does not exist. You need to bring down the prevalence of disease in the herd to a manageable state.

Footbath solution should be managed closely for maximum effectiveness. The solution should be maintained at 3.5 to 5.5 pH. Making the solution too acidic or too



WORTH PREVENTING: Dealing with lameness is estimated to cost dairy producers between \$90 and \$300 per cow.



CHRONIC LESION: This is an inactive, chronic, hyperkeratotic lesion.

alkaline will not improve digital dermatitis management results. Skin has a normal pH of 4 to 5.5; therefore, maintaining pH at normal skin levels will help maintain healthy skin condition and improve treatment results.

Footbaths should be a minimum of 10 feet long so each cow steps in the bath twice with each hoof. Solution depth should be maintained at a minimum of 4 inches so dewclaws are submerged as the cow passes though. Replacing or changing the footbath solution is dependent on hoof and leg hygiene of the cows. On average, the solution should be changed after 150 to 350 cows pass though the footbath. If cows have cleaner hooves and legs, the solution can be changed after 300 to 350 cows have passed though the footbath. If cows have dirty hooves and legs, the solution should be changed after 300 to 350 cows have passed though the footbath. If cows have dirty hooves and legs, the solution should be changed more frequently.

The UW Extension Dairy Team has written a series of fact sheets focusing on hoof health. To access these fact sheets, contact your local UW Extension office, or find them on the Dairy Team website, *fyi. uwex.edu/dairy*. Click on the Resources tab and then Animal Well-Being & Herd Health.

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