

## ABSTRACT

### CONTROL OF DIGITAL DERMATITIS ON A CALIFORNIA COMMERCIAL DAIRY WITH A *TREPONEMA* BACTERIN VACCINE

A trial designed to test the efficacy of a *Treponema* bacterin vaccine for controlling digital dermatitis (DD) in the dairy industry was conducted on a large commercial-sized dairy for over one year. Heifers (234) and cows (259) were observed for presence or absence of lesions. Additionally designated animals (112) were used to test for the presence of *Treponema* antibody in their sera via ELISA testing. Observation data did not show effectiveness of the vaccine in the reduction of lesions or clinical signs of lesions. However, through antibody testing it was determined that vaccination created a titer response occurs. Vaccine administration though affected titer level positively, did not provide animals an immunological advantage in avoiding DD but did in some cases delay the onset of lesions.

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August 2004