Milk Yield, Somatic Cell Counts and Risk of Removal from the Herd for Dairy Cows after Covered Teat Canal Injury

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Abstract

The objective of the study reported here was to evaluate milk yield, somatic cell count (SCC), and risk of removal of cows from the herd after covered teat injury. In covered teat injuries the teat skin is relatively undamaged. Eighty-one patients were used for this study. Teat injuries were diagnosed and treated using endoscopy (Medl et al. 1994). After treatment teats were rested for 3 x 3 days (Geishauser et al. 1998). Each patient was matched to three herdmates by breed, age and calving date. Data on milk yield and SCC were available from DHI records.

Test day milk yields (Fig. 1) and lactational milk yields were equal in cows with covered teat injury and herdmates during the lactation the injury was diagnosed, and in the subsequent lactation. Calving interval in the year the injury was diagnosed, and the time cows lived in the herd (Fig. 2) were also equal. However, covered teat injuries significantly increased test day SCC on average by 128,000 cells/ml milk (Fig. 3). We conclude that diagnosis and treatment of covered teat injuries using endoscopy may be useful to keep cows milking after teat injuries.

References

Figure 3. Test day SCC (1000 cells/ml milk) in patients with covered teat injury or in herdmates. Medians are given for the months 1 to 10 in the lactation when the injury was diagnosed.