



498 Research paper

Aromam Field trial: Efficiency of an essential oil-based mixture to cure mild and severe clinical mastitis in lactating dairy cows

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In **Significant Impact Groups:**

Specific alternatives \ Other

Species targeted: Dairy;

Age: Adult;

Summary:

A study evaluated an essential oil mixture for the treatment of bovine mild and moderate clinical mastitis in dairy cattle. In dairy herds from Brittany, Pays de la Loire or Auvergne Rhône Alpes, a total of 131 clinical cases were randomly assigned to essential oil (n = 72) or antibiotic (n = 63) group. Essential oil mixture was applied on infected quarter during 14 consecutive milking. Results showed that clinical cure rate was lower in the essential oil group than in antibiotic group (72.3 % vs 88.1 %). Cure rate based on two consecutive individual SCC < 300 000 cell/ml after occurrence was higher in essential oil group only in Brittany, Pays de la Loire (95.0 % vs 60.0 %). Bacteriological cure rate was lower in essential oil group compare to antibiotic group only in Auvergne Rhône Alpes (96.0 % vs 53.4 %). In the growing context of antimicrobial resistance, results showed that there is an interest to consider essential oils as a complement to antibiotics to evaluate new treatment strategies of dairy cows mammary infections.

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