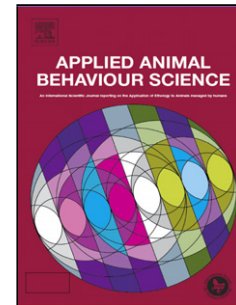


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# Behavioural and physiological responses to pest flies in pastured dairy cows treated with a natural repellent

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**Running head:** Responses to pest flies in pastured cows

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## Highlights

- Cows treated with an essential oil repellent had lower fly densities
- Tail flicks, skin twitches, head throws and leg stamps were reduced for treated cows
- Treated cows grazed longer, spent less time ruminating and walked less than untreated ones.

## ABSTRACT

The effects of reducing fly attack intensity, using an essential oil fly repellent, on fly avoidance behaviour, grazing, milk production and stress was evaluated. Twenty Holstein dairy cows on pasture were divided into two groups of 10, which were

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