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A strain-, cow-, and herd-specific bio-economic simulation model of intramammary infections in dairy cattle herds

Maya Gussmann, Carsten Kirkeby, Kaare Græsbøll, Michael Farre, Tariq Halasa

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**Highlights**

- A model with environmental, contagious, and a new opportunistic transmission mode
- Two strains of the same pathogen with different transmission modes are possible
- The model is sensitive to certain parameter changes, proper parameters are necessary
- Can be used for modelling short and long term decisions for mastitis control

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