

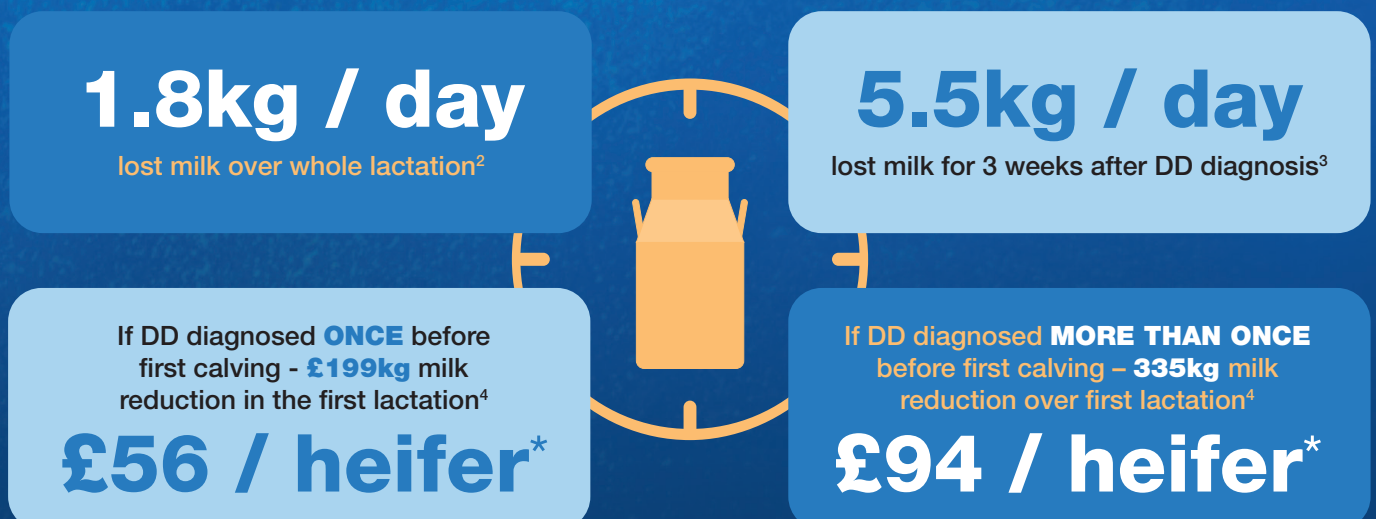


# The Economic Impact of Lameness Associated with Digital Dermatitis in Dairy Cows

## CATEGORISATION OF EXPENDITURE VS. ASSOCIATED LOSSES LINKED WITH DAIRY COW LAMENESS<sup>1</sup>

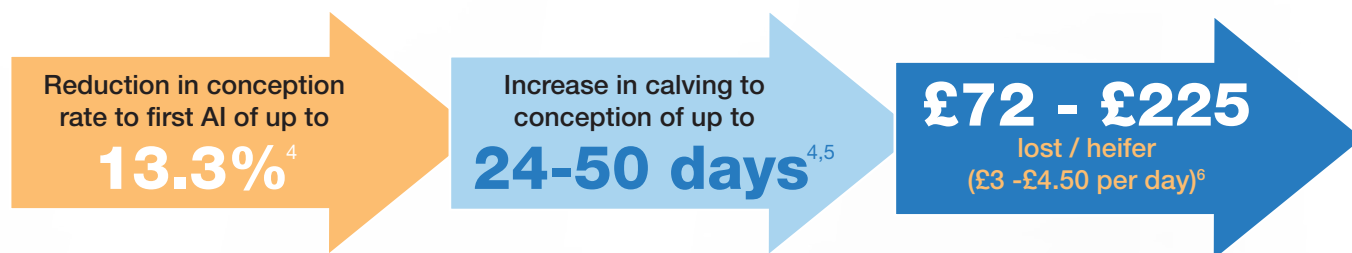
EXPENDITURE = INCREASED COSTS	LOSSES = REDUCED RETURNS
<p>Treatment:</p> <ul style="list-style-type: none"><li>• Labour and therapeutics</li></ul> <p>Prevention:</p> <ul style="list-style-type: none"><li>• Environmental change, management practice upgrades, detection technology</li></ul>	<ul style="list-style-type: none"><li>• Reduced milk production</li><li>• Reduced reproductive performance</li><li>• Increased risk of culling and death</li><li>• Reduced welfare effects</li></ul>
<p>Losses represent up to <b>93%</b> of total costs and outweigh expenditure in most cases<sup>1</sup></p>	

## PRE-CALVING HEIFERS WITH DD: IMPACT ON MILK PRODUCTION



## PRE-CALVING HEIFERS WITH DD: IMPACT ON REPRODUCTIVE PERFORMANCE

Delayed cyclicity • Increased anoestrus treatment • Increased cystic ovarian disease



## IMPACT OF TREATMENT

One injection of Ketofen® 10% for a dairy cow (weighing 700kg) costs less than £15\*

Milk production from lame freshly calved adult cows with DD – 47.89kg / day<sup>7</sup>

Milk production from lame freshly calved adult cows with DD **treated with Ketofen® 10%** – 58.38kg / day<sup>7</sup>

Lame cows receiving Ketofen® 10% were **20x less likely to be lame** 1 week after treatment than untreated cows<sup>7</sup>



**+10.49kg / day**

Extra £21 earned per cow for the first week\*\*

The economic consequences of DD relate not only to direct costs but also can have a significant impact on welfare and production.

**The use of ketoprofens, such as Ketofen® 10%, can improve welfare and have a significant production benefit, which outweighs the cost of treatment.**

\*Prices based on Farmacy Nov 2021 and informal research across practices in G.B. \*\*Assume average milk price of 28ppl

**References:** 1. Dolecheck K., J Bewley J. Animal board invited review: Dairy cow lameness expenditures, losses and total cost. 2018 Jul;12(7):1462-1474. doi: 10.1017/S1751731118000575. Epub 2018 Mar 20. • 2. Yeruham, I. 2000. Association between milk production, somatic cell count and bacterial dermatoses in three dairy cattle herds. Aust. Vet. J. 78:250-253. • 3. Pavlenko, A., Bergsten C., Ekesbo I., Kaart T., Aland A., and Lidfors L. 2011. Influence of digital dermatitis and sole ulcer on dairy cow behaviour and milk production. Animal 5:1259-1269. • 4. Gomez A, Cook NB, Socha MT, Döpfer D. First-lactation performance in cows affected by digital dermatitis during the rearing period. J Dairy Sci. 2015;98(7):4487-98. • 5. Huxley, J. (2013). Impact of lameness and claw lesions in cows on health and production. Livestock Science, 156(1-3), doi:10.1016/j.livsci.2013.06.012 • 6. <https://www.kingshay.com/wp-content/uploads/Dairy-Costings-Focus-Report-2019-WEB-VERSION.pdf> • 7. Kasiora K, et al. Evaluation of the use of ketoprofen for the treatment of digital dermatitis in dairy cattle: A randomised, positive controlled, clinical trial. Vet Rec. 2021;e977. <https://doi.org/10.1002/vetr.977> 20kkinga, K., 1998.

**Ketofen® 10%** solution for injection for horses, cattle and pigs contains 100 mg ketoprofen per ml. **Legal Category:** UK POM-V

Further information is available from the product SPC, data sheet, pack insert or from the prescriber.

Prescription decisions are for the person issuing the prescription alone. Use medicines responsibly ([www.noah.co.uk/](http://www.noah.co.uk/) responsible)

Ceva Animal Health Ltd, Explorer HOUSe, Mercury Park, Wycombe Lane, Wooburn Green, Bucks HP10 0HH

Tel: 01628 3340566 [www.ceva.co.uk](http://www.ceva.co.uk) KET Aug24

