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Thank you very much from your KRAIBURG research & development

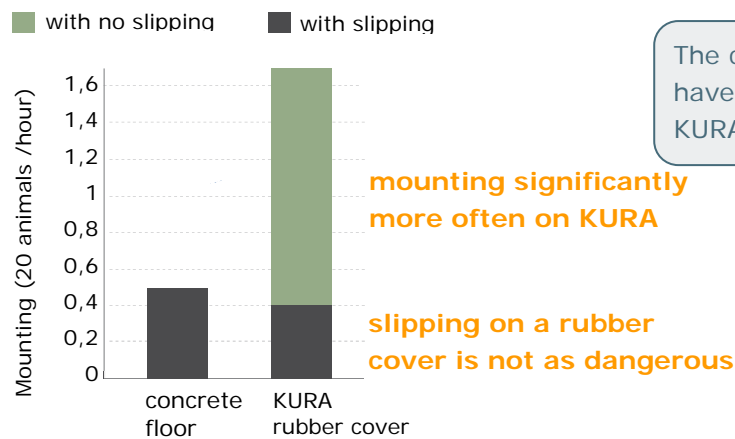
REPRODUCTIVE DISORDERS AND LAMENESS

KURA prevents lameness.

Lameness has severe negative effects on dairy cow fertility.

1. Behaviour during oestrus

Mounting is an important criterion in determining the time for insemination. Cows with healthy claws kept on rubber mats show this behaviour more frequently, because they can move around free of pain and safely.



The cows feel safe and have confidence in the KURA floor.

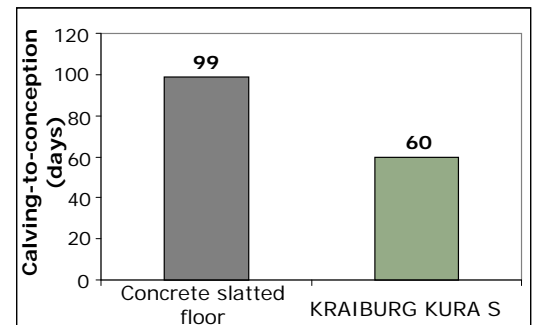


Every return to oestrus costs about 100 – 150 €!

Benz, 2002

2. Calving to conception intervals/calving intervals

A survey conducted by Strues & Malkow-Nerge (2008) revealed that animals with claw problems had notably longer calving intervals of from 17-45 days. This confirms the results by Kremer et al. (2007): cows on slatted floors with KURA S had a 39 day shorter calving-to-conception interval – which means a cost savings of approximately returning to oestrus twice!



Kremer et al., 2007

3. Reproductive disorders

Lame cows

- ingest up to 16 % less feed (DM), which makes them more prone to a negative energy balance. Consequently the risk of metabolic problems increases and conception rates are lower.
- have a 3.5 times higher risk of a delayed cycle, because the ovarian function is affected (Garbarino et al., 2009)
- have about a 125 % higher risk of ovarian cysts and the pregnancy rate is reduced about 8 % (Melendez, 2002; Wittkowski, 2007)

4. Culling

Worldwide there are immense economic losses from the 10-15 % of culling caused by claw diseases! Infectious claw diseases – according to new studies – do not cause early culling, but mechanical-traumatic claw diseases do (Cramer et al. 2009) – soft walking area covers reduce the occurrence of mechanical-traumatic claw diseases by up to 80 %.

Interrelation

Claw health – feed intake:

- After soft covers were installed on slatted floors, cows visited the feeding place 34 % more often (Miethke, 2004)
- Elevated feedstalls with a rubber cover reduce claw diseases (Bergsten, 2002) and improve stress free feed intake (DeVries et al., 2006)