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## LAMINITIS – NOT EVERYTHING IS CAUSED BY METABOLISM

An examination by the Veterinary Medical Clinic of Leipzig University reveals: **The most important prophylatic factor in the prevention of laminitis is floor construction.**

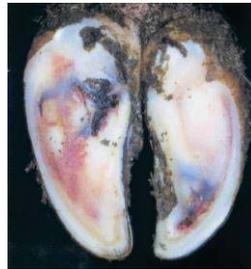
### What is subclinical laminitis and why is this claw disease so important?

Subclinical laminitis is the **most frequent laminitis form in dairy cattle**. The animals affected show no lameness, but at claw trimming yellowish bloody inclusions appear within the horn. **Through the changes in the corium only horn of lower quality can be produced.**



Yellowish red spots in the sole area are typical symptoms of laminitis

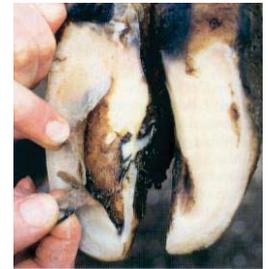
Subclinical laminitis is regarded as **the primary cause of numerous other claw diseases like sole ulcers, white-line defects, claw tip ulcers, double sole formation and heel horn erosion.**



A bluish spot indicates subclinical laminitis.



The dorsal wall is bent, a typical symptom of laminitis.



A double sole, caused by laminitis.

### Experimental arrangement:

- On three large farms 123 Holstein Friesian cows were systematically examined from drying off to finishing the second lactation month.
- Housing systems: Loose housing with cubicles
  - Walking areas:**
    - farm A (562 cows): mastic asphalt
    - farm B (530 cows): walking alleys littered with straw
    - farm C (623 cows): **rubber covered walking alley floors**
- Besides blood analysis for assessing the metabolism, all 8 main claws were checked twice in 8 week intervals after functional claw trimming. After the end of the examination a lameness assessment (locomotion scoring) was conducted.

### The most important results:

- **Farm C with complete rubber floor covering had the fewest subclinical laminitis symptoms.**
- **An interrelationship between energy metabolism and subclinical laminitis could not be found in this study.**

**CONCLUSION: Subclinical laminitis was found least often on rubber floors.**

**Source:** Prof. Dr. Manfred Füll, Katrin Wilhelm, Jürgen Wilhelm of the Medical Veterinary Clinic of Leipzig University, Nutztierpraxis aktuell, January 2011

**Images:** Landwirtschaftsverlag GmbH, top agrar Fachbuch „Klauenprobleme schneller lösen“ [“Solve claw problems faster“], 2003