# Nordic Claw Atlas

## Definitions of claw diagnoses



A collaboration between Nordic claw health experts

# Nordic Claw App

The Nordic Claw Atlas is a collection of photos showing the disorders that are recorded in the common Nordic Claw Health Recording Program, The Nordic Claw App.

The atlas contains trait definitions of all diagnoses that leading claw experts from Denmark, Finland, Norway and Sweden has agreed upon. All trait names are shown in English, Danish, Finnish, Norwegian and Swedish.

**Updated in June 2020**


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# Sole haemorrhage

Såleblødning

Vertymiä anturassa

Blødning i sålen

Sulblödning

## Mild





Superficial haemorrhage or slight discoloration of  the sole and/or the white line, may disappear at normal trimming.

## Severe





Profound haemorrhage of the horn of the sole and/or the white line, remains after trimming.

# Sole ulcer

Sålesår

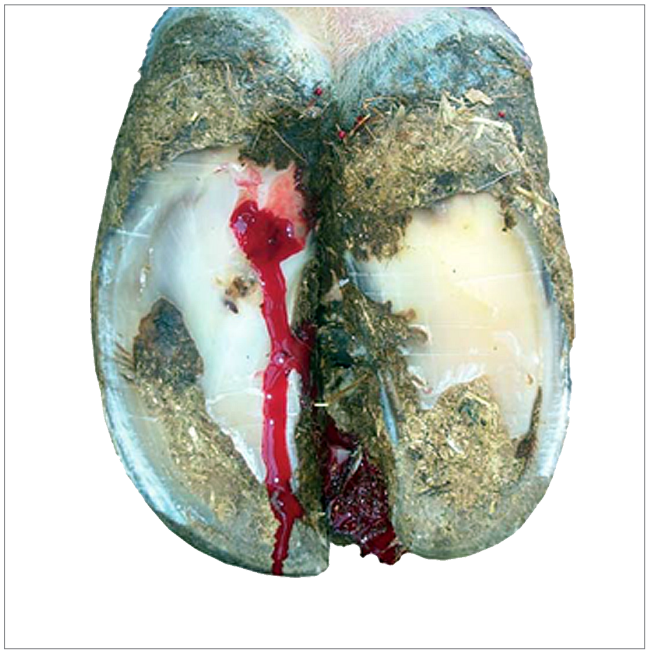
Anturahaavauma

Såleknusning

Klövsulesår

## Mild

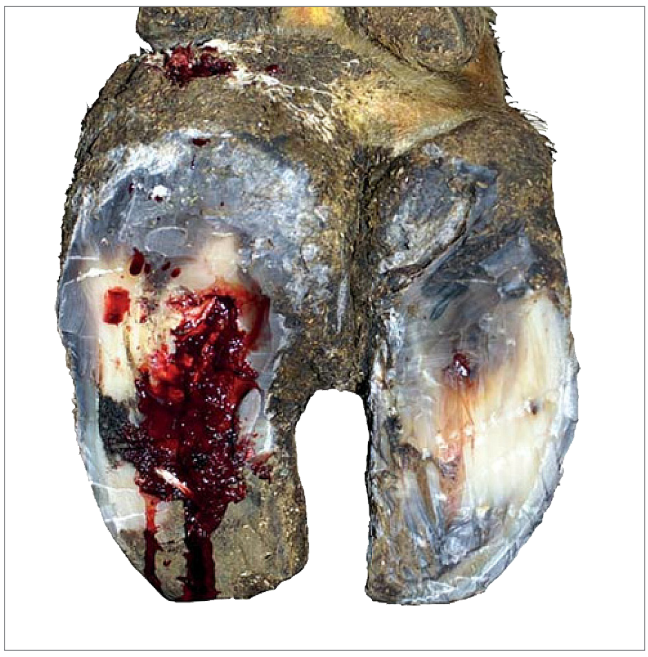




Penetration through the sole horn exposing fresh corium. Located in the typical rear part of the sole.

## Severe





Penetration through the sole horn exposing affected corium with necrotic discolored tissue and/or protruding granulation tissue. Located in the typical rear part of the sole.

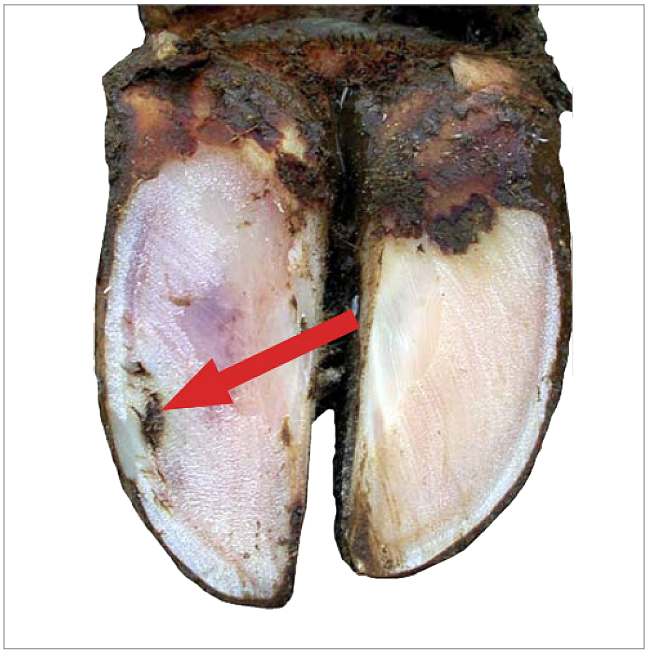
# White line fissure

Hul væg, løs hvid linje

Valkoviivan repeämä

Løsning i den hvite linjen

Hålvägg









Separation of the white line that remains after normal trimming. No exposed corium.

# White line abscess/ White line ulcer

Hul væg, sår/byld i hvid linje

Valkoviivan paise

Byll i den hvite linjen

Sår/böld i vita linjen

## Before opening

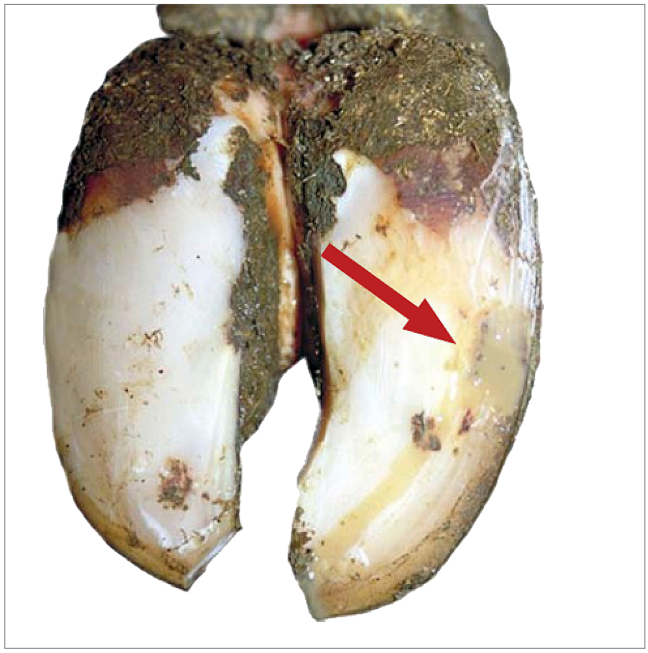


## After opening





## Abscess opening in coronary band





Exposed corium with or without purulent exudation or necrosis originating from a fissure of the white line.

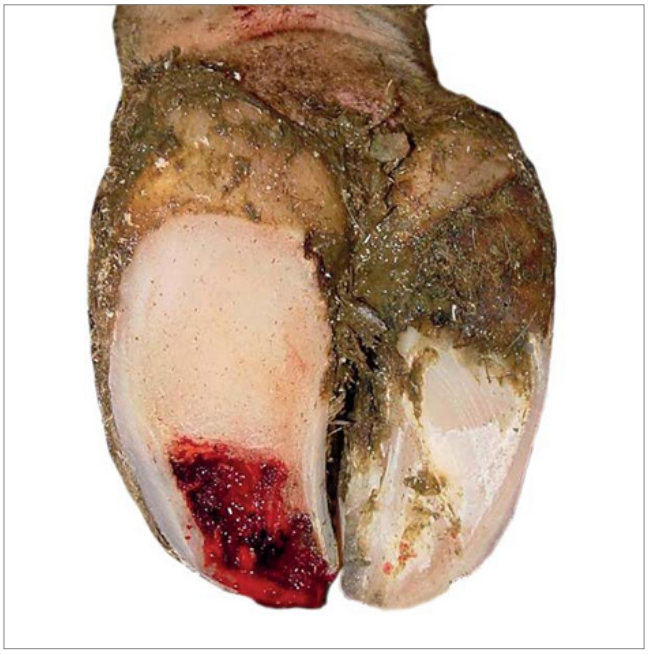
# Toe ulcer/
# Toe abscess/
# Toe necrosis

Tånekrose

Kärkipaise

Tåbyll/tånekrose

Sår/böld i tån









Ulceration of toe with an abscess and/or necrosis.

# Double sole

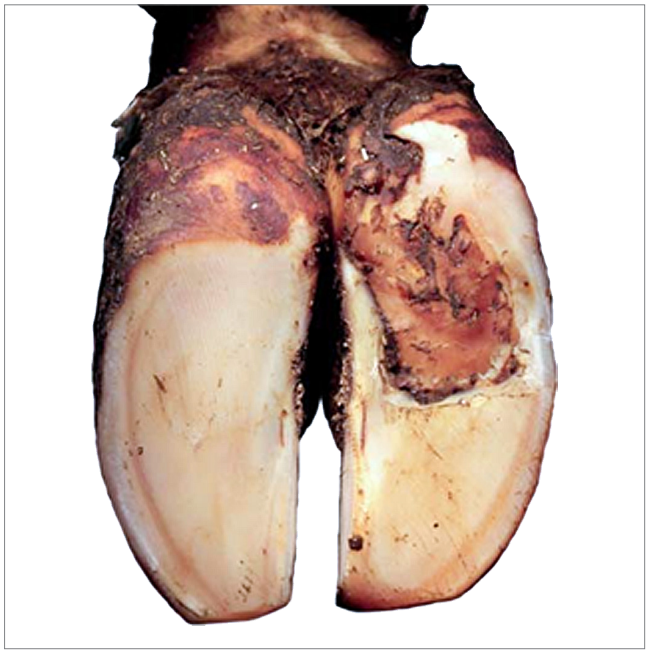
Dobbeltsål

Kaksoispohja

Dobbeltsåle

Dubbelsula









One or more layers of under-run sole horn.

# Chronic laminitis/ Laminitic ring/ Horizontal fissure

Kronisk laminitis/ vandret hornspalte/snabelklov

Krooninen sorkkakuume/ Poikittaishalkema

Kronisk forfangenhet/ horisontal klauvsprekk

Kronisk fång/ horisontell spricka









Concave deviation of the dorsal wall with i.e laminitic ring(s) or a horizontal fissure.

# Vertical horn fissure

Lodret hornspalte

Pitkittäishalkeama

Vertikal klauvsprekk

Vertikal spricka









Vertical (longitudinal) fissure/crack of the dorsal or abaxial wall extending from the coronary band.

# Axial horn fissure

Hornspalte i indre

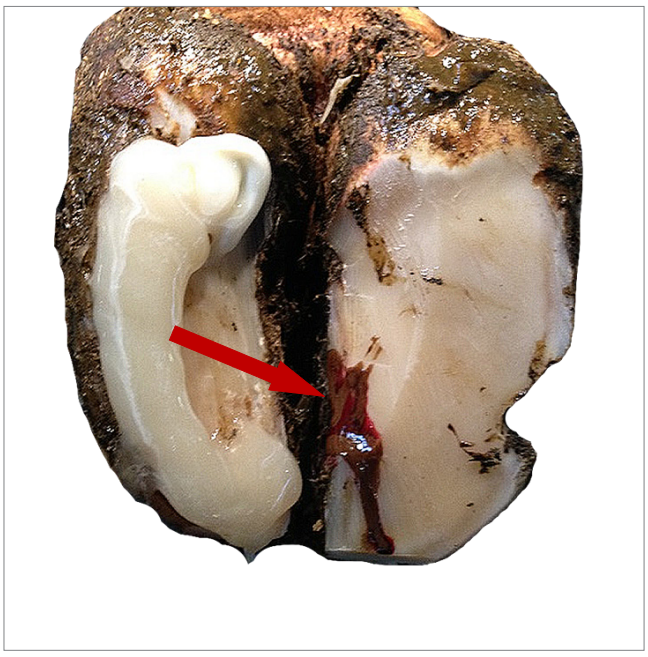
Sisäpinnan halkeama

Sprekk innvendig hornvegg

Spricka inre hornvägg







Vertical (longitudinal) crack in the inner claw wall extending to the corium.

# Heel horn erosion

Balleråd

Kantasyöpymä

Hornforråtnelse

Klövröta

## Mild





Superficial erosions of the bulbs.

## Severe





Moderate to profound erosions of the bulbs, most often V-shaped and possibly extending to the corium.

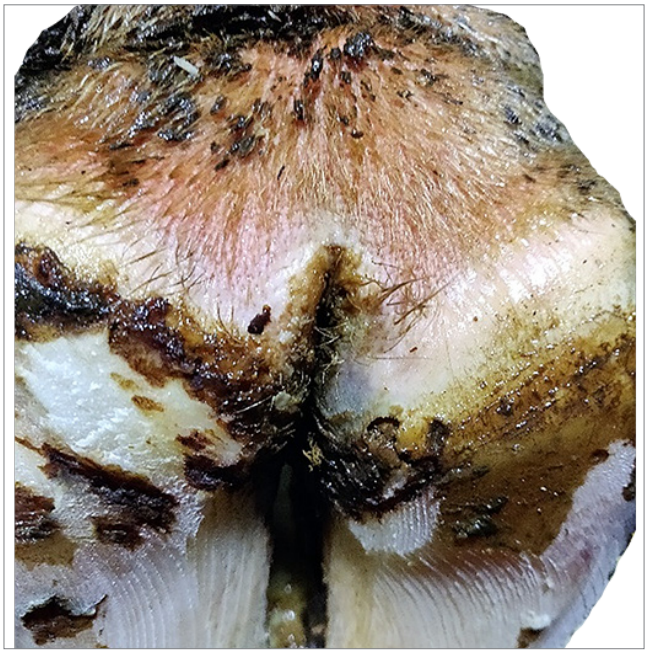
# Mild dermatitis

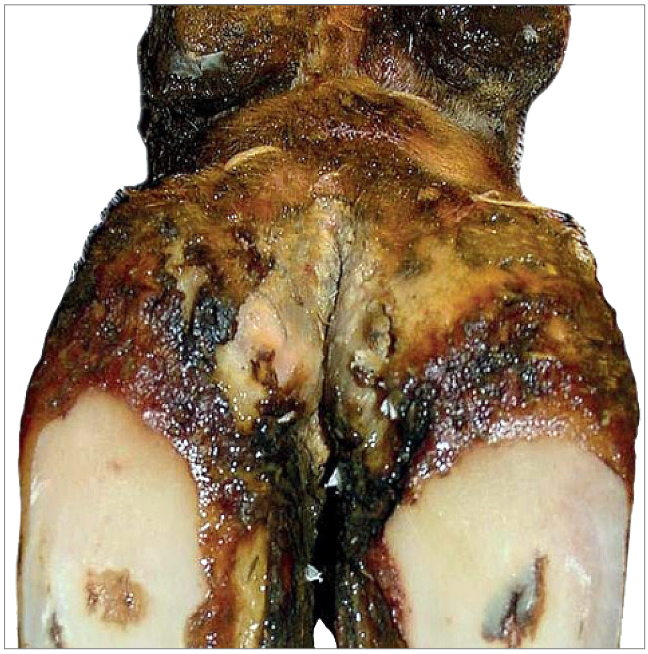
Spaltetændelse

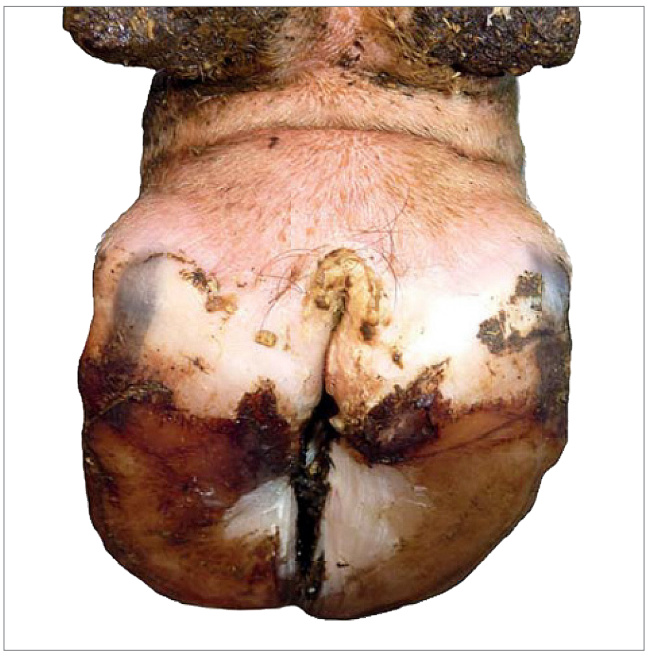
Lievä ihotulehdus
(sorkkavälin ihotulehdus)

Mild dermatitt
(interdigital dermatitt)

Lindrigt eksem









Mild hyperkeratosis without proliferation. Lesion is not painful or bleeding.

# Digital dermatitis

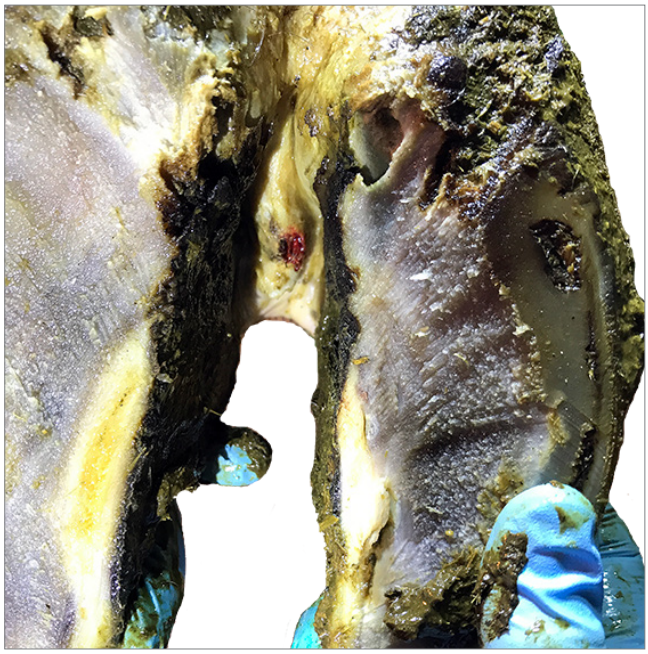
Digital dermatitis, DD

Sorkka-alueen ihotulehdus, DD

Digital dermatitt

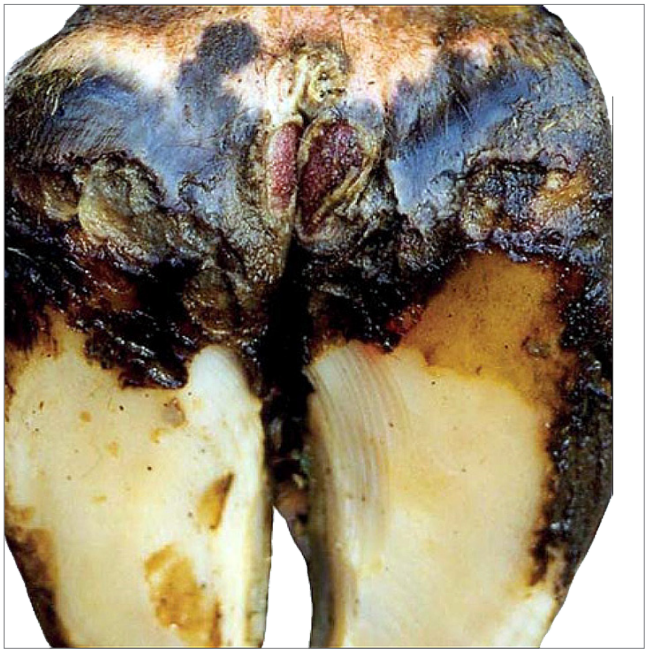
Digital dermatit

## Minor lesions









Ulcerative, granulomatous and easily bleeding lesion of any size.

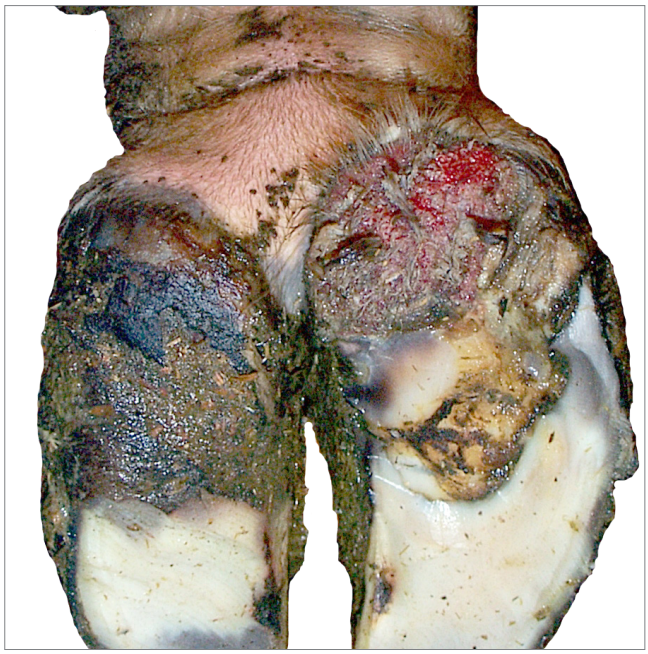
# Digital dermatitis

Digital dermatitis, DD

Sorkka-alueen ihotulehdus, DD

Digital dermatitt

Digital dermatit





## Acute lesion in chronic DD





Ulcerative, granulomatous and easily bleeding lesion of any size.

# Chronic dermatitis/ Wart growth

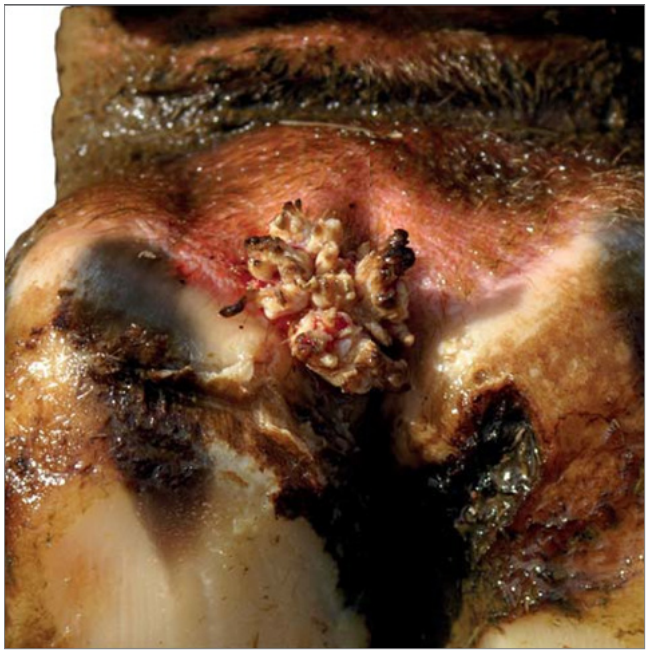
Kronisk digital dermatitis/vorte

Sorkkasyylä/ Krooninen DD

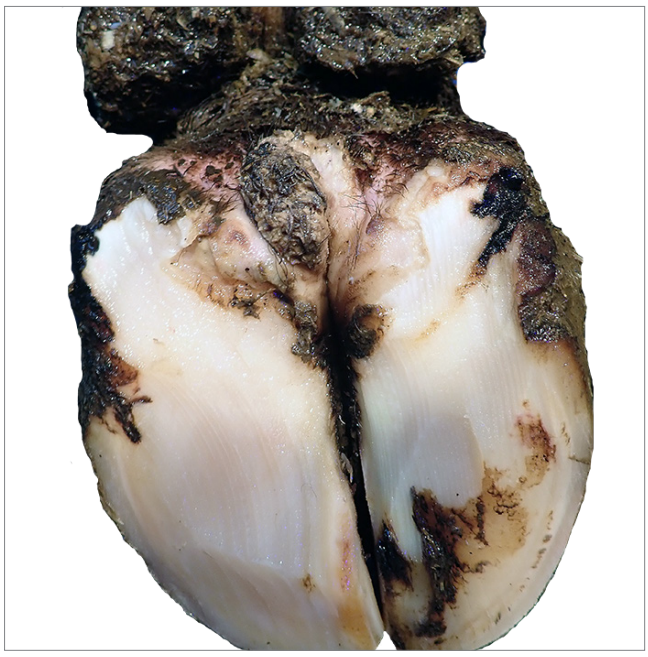
Kronisk dermatitt

Kronisk DD/Vårta









Proliferation and / or severe hyperkeratosis. Often the chronic stage of digital dermatitis, but also includes warts of unknown aetiology.

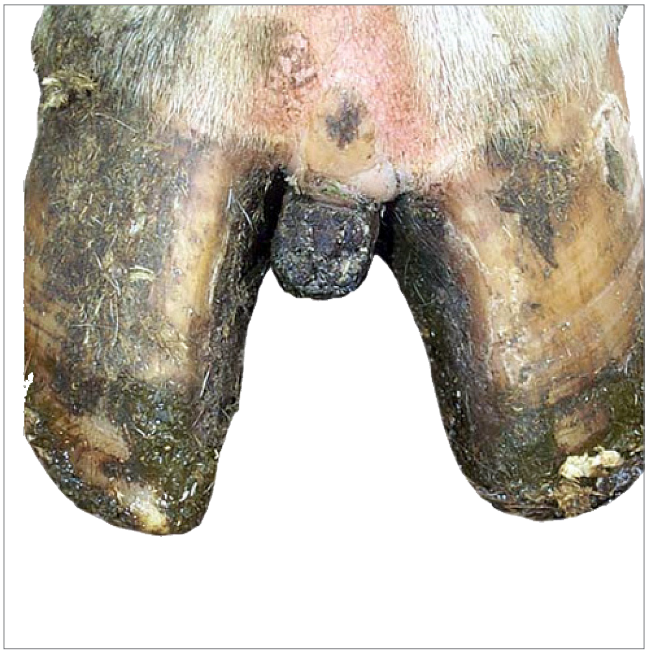
# Interdigital hyperplasia/ Interdigital fibroma

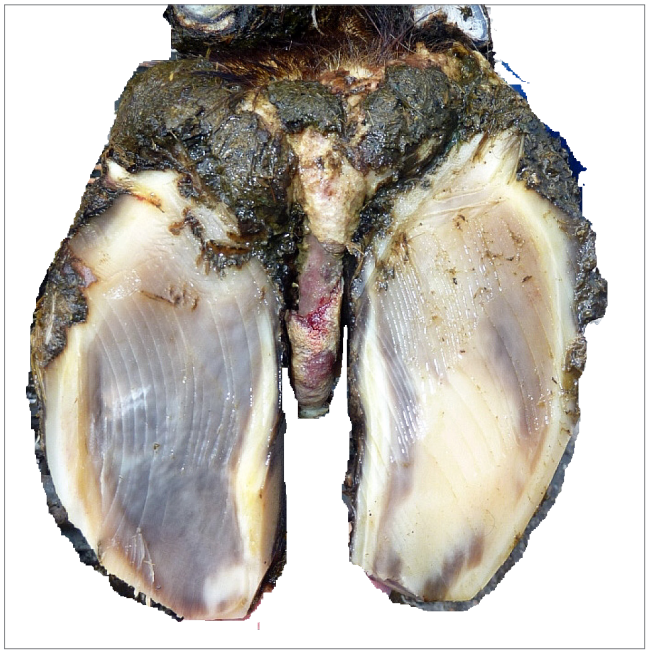
Nydannelse

Sorkkavälin liikakasvu

Limax

Limax









Interdigital growth of fibrous tissue.

# Interdigitalphlegmone /Foul in the foot/ Foot rot

Klovbrandbyld

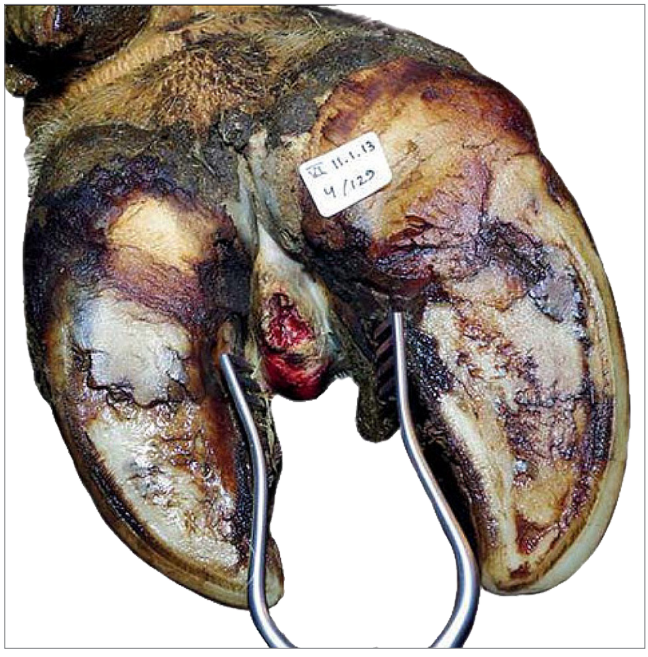
Sorkkavälin ajotulehdus

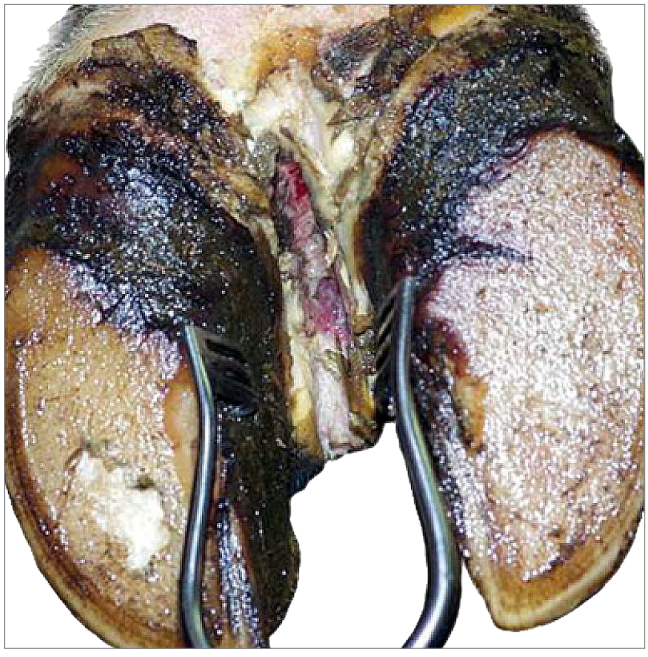
Klauvspalteflegmone

Klövspaltsinflammation









Deep interdigital infection with symmetric swelling of the foot, odorous smell, ulceration and commonly necrotic tissue. The disease frequently causes fever and acute lameness.

# Corkscrew claw

Proptrækkerklov

Sorkkakiertymä

Korketrekkerklauv

Korkskruvsklöv





**Before trimming** **After trimming**







Any inward torsion lengthwise of the either outer or inner claw. The dorsal edge of the wall deviates from a straight line.

# Asymmetric claws/ Different sized claws

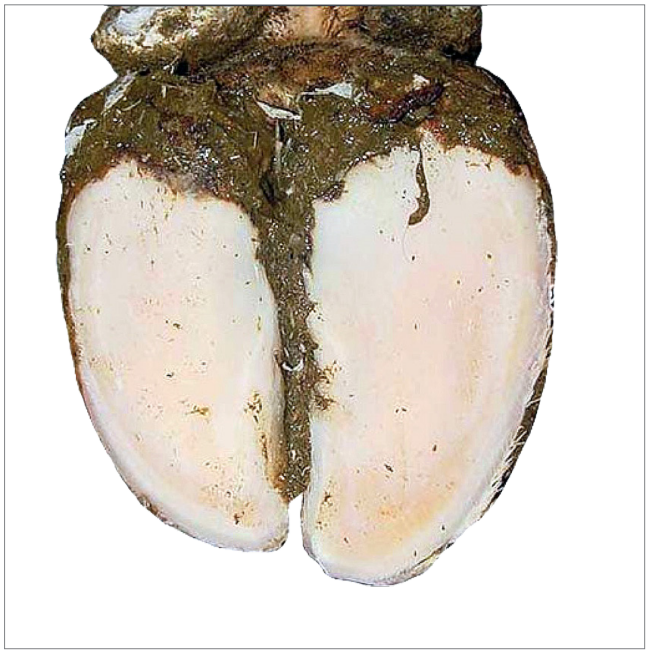
Asymmetrisk klov

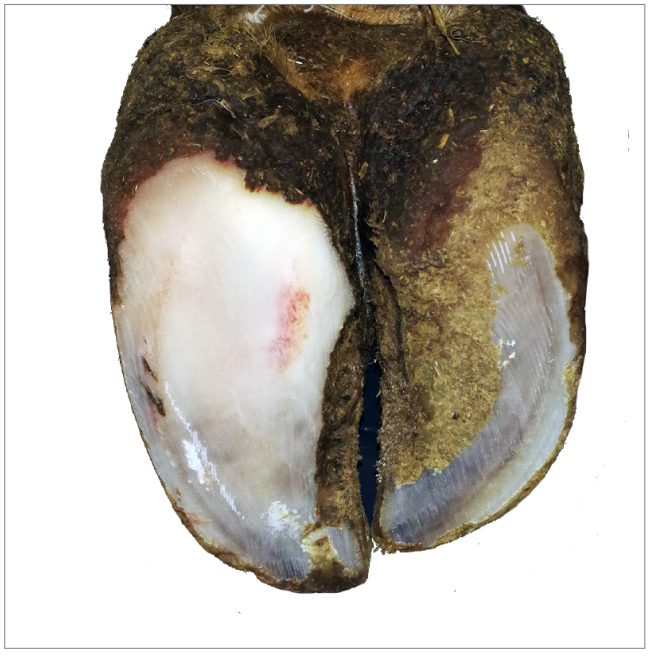
Epäsymmetriset sorkat

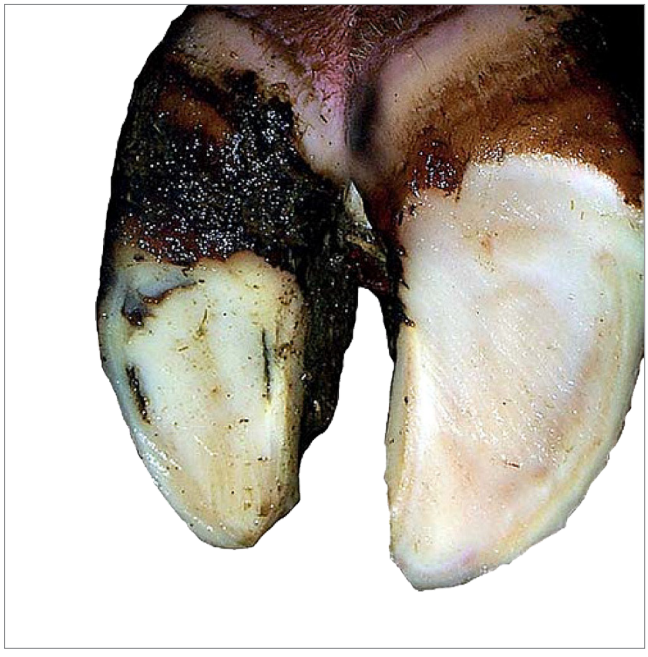
Asymmetriske klauver

Asymmetri









Significant difference in width, and possibly height and length, between the outer and inner claw.

# Scissor claws

Sakseklov

Saksisorkat

Sakseklauv

Saxklöv









Tip of toes crossing each other, but without torsion.

# Overgrown claws

Overgroet klov

Ylikasvaneet sorkat

Overvokste klauver

Förvuxen klöv









Severely overgrown claws

# Thin sole

Tynd sål

Ohut pohja

Tynn såle

Tunn sula

## Over-worn sole before trimming





## Over-trimmed sole





Sole horn yields (feels spongy) when finger pressure is applied.

# Trauma

In cases with trauma – always consult a veterinarian!

Skade

Vamma

Skade

Trauma

## Claw capsule damage



## Exungualtion of dewclaw



## Exungulation



## Trauma after bandage



Accidental traumatic damage to the claw capsule, the coronary band and / or the digital / interdigital skin.

# Lameness

Halthed

Ontuminen

Halthet

Hälta





Walks and/or stands with an arched back. The cow walks with shorter, stiff strides or is clearly lame.

A pdf of the Nordic Claw Atlas is available to download from the following websites:

www.landbrugsinfo.dk

www.faba.fi

www.animalia.no

www.vxa.se

