

WHITE LINE DISEASE (SEEDY TOE)

Preventing, recognising and treating white line disease.

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White line disease, otherwise known as seedy toe, lesions are rarely painful unless there is extensive hoof instability, but the widened white line may allow the entry of foreign objects and organisms. Often little stones and dirt can get stuck in the space under the horny part of the hoof, causing the donkey pain or an infection.

Follow our owner's guide to preventing, recognising and treating white line disease (WLD, or seedy toe) in donkeys and mules.

WHAT IS WHITE LINE DISEASE/SEEDY TOE?

WLD affects the inner layers of the hoof wall and presents as necrotic and crumbly grey-white material along the white line of the foot.



The reason why WLD occurs isn't fully known, but anaerobic bacteria and fungi alongside poor foot hygiene play an important role in the development of the disease.

Some of the risk factors associated with the development of this condition are;

- The presence of horn digesting microbes (*Pseudoallischeria boydii*, *Scopulariopsis* spp., *Aspergillus* spp, *Fusobacterium necrophorum*, *penicillium* spp.)
- A wet and humid environment, poor foot hygiene,
- Pre-existing laminitis resulting in a stretched white line
- Hereditary factors.

Donkeys seem to be more susceptible to WLD than horses. It can affect any of the four feet and recurrence is common. Generally donkeys with WLD will not be lame, but depending on the severity of the pathology or the presence of other associated diseases, lameness could be present.

HOW CAN WLD **BE PREVENTED?**

Maintaining good foot hygiene and regular foot care will help to prevent the occurrence of WLD. The following are best practice for prevention of this condition:

- Clean the hooves daily, monitoring the integrity of the white line and the rest of hoof structures.
- Change bedding frequently, avoiding humidity and accumulation of faeces and urine, especially in wet seasons.
- Arrange for your farrier to check and trim the feet every six to ten weeks depending on the amount of exercise/wear, the age of the donkey and/or the presence of hoof pathology.
- Avoid grease or similar products as they reduce horn oxygenation and can create an environment that encourages proliferation of horn digesting microbes.
- Monitor animals with a history of WLD closely as they will be more susceptible to recurrence.
- Good, clean hard standing and dry bedding are important for the health of all donkeys' feet, but for animals with recurrent WLD it is very important.

HOW TO TREAT **WLD**

RESECTION

Your farrier or vet will remove all the damaged horn. This procedure should not be painful but it may be necessary to remove a lot of hoof wall if the disease has progressed. In some circumstances it may be necessary to take an x-ray before removing a large amount of hoof wall to check the stability of the pedal bone.



DRESSINGS (OPTIONAL)

Your vet may decide to use sugardine (sugar and iodine mixture) in a bandage for the first few days after the affected horn has been removed, as this can help to harden the underlying softer layers of horn and keep the area clean.

CLEANING

Once all the damaged horn has been removed, the hoof needs to be kept clean with daily hoof picking and brushing to remove as much organic matter as possible. Once the foot is clean topical disinfectants (eg povidone iodine, hydrogen peroxide or zinc sulfate) in solutions or sprays are useful to reduce microbial contamination.

OTHER TREATMENTS

Removing all the abnormal horn, ensuring good oxygenation to the area and maintaining good foot hygiene may be enough to manage the problem. However, if the amount of wall that has been removed is substantial, your vet or farrier may decide to refill the defect with acrylic material to give more stability to the hoof capsule. In these cases it is vital that all the affected horn is removed to ensure the acrylic material bonds to healthy horn.



Note: topical antibiotics should be avoided and only administered if your veterinary surgeon prescribes them.



FURTHER PROBLEMS AND RECURRENCE

Once WLD has developed the disease can advance towards the coronary band and extend further around the hoof wall. This promotes wall detachment and can result in further problems like hoof abscesses.

WLD recurrence should be closely monitored by you and your farrier as some animals have a predisposition to this problem.

If you need any further advice or information please do not hesitate to use the details below to contact us.

MORE INFORMATION

If you need clinical and dental veterinary advice contact our [veterinary team](#) or telephone 01395 578222 and ask to be put through to the veterinary department.