



Understanding and Preventing Thrush in Horses

Thrush is a common, often foul-smelling bacterial infection of the horse's hoof, specifically affecting the central and lateral sulci (grooves) of the frog. While generally not an emergency, if left untreated, it can cause pain and lead to more serious deep-tissue infections.



What is Thrush?

Thrush is primarily caused by an anaerobic bacterium called *Fusobacterium necrophorum*.

- **Anaerobic** means the bacteria thrives in an environment with little to no oxygen.
- It feeds on the decaying tissue of the frog and sulci.
- **Key Signs:** A characteristic black discharge that is moist or pasty, and often has a strong, repulsive odor. The affected area will look ragged and deteriorate.



How to Prevent Thrush (The Best Defense)

Prevention is always easier and less expensive than treatment. It focuses on addressing the environment and maintaining a healthy, functional hoof.

1. Environmental Management (The Stall and Paddock)

- **✓ Keep Stalls Clean and Dry:** Remove manure and wet bedding at least twice a day. Use absorbent bedding (e.g., kiln-dried shavings) and ensure adequate drainage.
- **✓ Manage Paddock Footing:** Where possible, reduce muddy areas by adding gravel, mats, or sand in high-traffic zones like gates and feed areas.
- **✓ Provide a Dry Retreat:** Ensure your horse has access to a consistently dry area (like a run-in shed or a dry paddock) where they can stand.

2. Hoof Hygiene and Care

- **✓ Daily Hoof Picking:** Pick out your horse's hooves **every single day**—ideally before and after riding. This removes packed-in dirt, manure, and debris that trap moisture.
- **✓ Air and Sunlight:** The bacteria that cause thrush *hate* air and sunlight. Allowing the horse to stand on clean, dry surfaces helps dry out the frog and sulci.
- **✓ Regular Farrier Care:** Maintain a consistent schedule with your farrier (usually every 6-8 weeks).
 - **Good trimming** removes excess frog tissue that might be trapping bacteria and opens up the sulci to allow for natural cleaning and airflow.
 - Ask your farrier to specifically evaluate the depth of the central sulcus.

3. Health and Diet

- **✓ Promote Movement:** Ensure your horse gets sufficient exercise or turnout. Movement stimulates the blood flow and the natural "pumping" action of the frog, which is essential for hoof health.
- **✓ Proper Nutrition:** A balanced diet ensures the horse has the necessary building blocks for strong, healthy hoof tissue, which is naturally more resistant to infection.



When to Call Your Veterinarian or Farrier

While often minor, thrush can become a serious problem if it reaches sensitive structures.

- **Call if you see or suspect:**
 - The infection has caused the frog to bleed or looks extremely deep.
 - The horse is **lame** (limping or sore) when pressure is applied to the frog.
 - The odor is persistent, or the discharge seems to be getting worse despite home treatment.
 - You notice deep crevices, especially a V-shaped defect in the central sulcus that is sensitive to touch.

🤔 Why Does Thrush Happen? (Causes)

Thrush is essentially a disease of **poor hoof hygiene and environment** that creates the perfect breeding ground for anaerobic bacteria.

Primary Cause	Description
Moisture and Mud	Prolonged exposure to wet, muddy, or consistently damp bedding and footing softens the frog tissue, making it easily compromised and susceptible to bacterial invasion.
Lack of Exercise/Movement	The frog is designed to act as a pump, expelling moisture and promoting circulation when the horse moves. Lack of movement reduces this self-cleaning mechanism.
Poor Stable Management	Infrequent cleaning of stalls, especially if the horse is standing in soiled (manure and urine) bedding, introduces a high concentration of bacteria to the hooves.
Hoof Conformation/Trimming	A deep, narrow central sulcus or very deep, poorly defined lateral sulci can create crevices where mud, manure, and moisture get trapped, preventing airflow and cleaning.
Under-Run Heels	A conformational fault where the heel collapses, putting undue pressure on the frog and increasing the depth and tightness of the sulci, hindering air circulation.

Early detection and consistent preventative care are the keys to keeping your horse's hooves sound and healthy!

