

Equine ulcers have become an epidemic

It is estimated that up to $80\,\%$ of horses have stomach ulcers. They are often misdiagnosed or not diagnosed at all

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What are ulcers?

Lesions or sores caused by damage to the gastric or intestinal lining.

Identified as pits or craters in the tissue lining

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Types of Ulcers

Gastric (stomach) Ulcers

- Squamous region (upper)
- Glandular region (lower)

Classified as 3 types

- Equine Squamous Gastric Disease (ESGD)
 Equine Glandular Gastric Disease (EGGD)
 Equine Colonic Ulcer Syndrome (ECUS)

In a post-mortem study (545 horses): 55% were found to have ulcers in the hindgut region and 65% of performance horses

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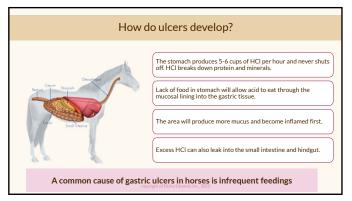
Signs, symptoms and behaviors

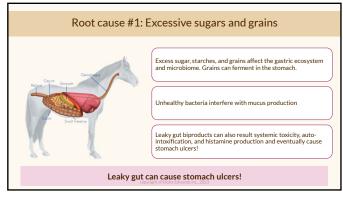
- Poor appetite, or slow and picky eating Laying down frequently Dull haircoat and poor shedding Weightloss

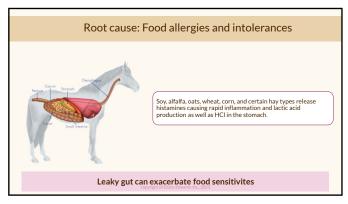
- Weightloss
 Body soreness
 Cinchy
 Belly kicking and not wanting to be touched
 Sucked up flanks
 Fatigue
 Anxiety
 Chronic or recurring colic
 Burning or acid reflux
 Cribbina

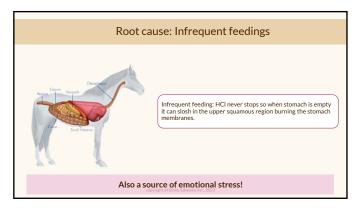
- Cribbing
 Teeth grinding
 Eating wood or manure
 Explosive outbursts

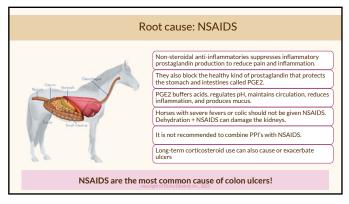
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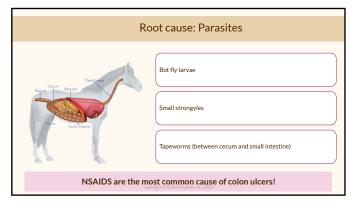




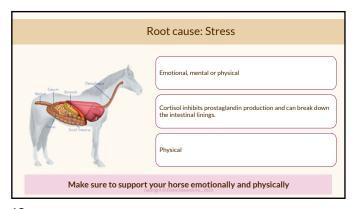








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Horses at higher risk

- Performance horses or horses in rigorous showing and training schedules have a significantly higher incidence of ulcers than the general population of horses.
- Broodmares
- Foals at the time of weaning
- Horses that are confined without turn-out or kept in a stall develop ulcers.
- Horses that have been abused including rescue horses.
- Horses that travel a lot in trailers.
- Horses on high sugar diets or grain such as oats or barley.
- Horses that are fed infrequently.
- Horses that are in chronic pain, including laminitis.
 Horses with unresolved parasite infections.
- Horses with unresolved parasite infections.
 Horses administered antibiotic prescriptions.
- Horses using or have used NSAIDS (non-steroidal anti-inflammatorie

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Conventional treatment

- Proton pump inhibitors (PPI's) such as omeprazole block the action of an enzyme that is produced by the parietal cells and is responsible for acid production. They are more effective for squamous ulcers and have little efficacy for glandular ulcers. PPI's are intended for short term use.
- H2 receptor antagonists are drugs which block Type 2 histamine production. Histamines stimulate the parietal cells to produce more acid.
- Sucraffate is a drug that buffers acid by increasing bicarbonate secretion and stimulating prostaglandins. It also
 coats the sores with a sticky mass.
 - Does not stop acid production or protect the tissues
 - It can also interfere with the absorption of nutrients, supplements, and other medications.
 - 3) Decreases the rate of gastric emptying and slows down the overall intestinal transit time.
 - Contains aluminum, a toxic heavy metal which a lot of horses already have stored in organs and tissues in toxic levels. This drug should only be used short-term.

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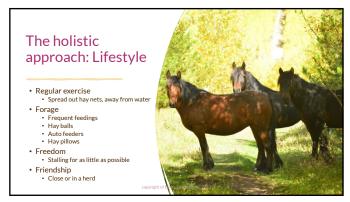
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Medication induced nutrient deficiencies Vitamin B12 Folic Acid Iron Calcium Zinc Magnesium

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The holistic approach: Diet

- Eliminating commercial feeds and multi's
- Add more fibre to the diet
- Small amount of alfalfa cubes
- Assess hay choose a softer less coarse (perhaps temporary) depending on sugar and protein levels.



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SOURCES OF FIBRE

- ✓ Beet pulp: 1 cup soaked daily Provides extra fibre and nutrition. Prebiotic.
- ✓ Wheat bran

 Source of fibre and beta glucans
- ✓ Cooked Barley
 Contains beta glucans to soothe and reduce inflammation
- ✓ Low sugar cubes Additional short-stem forage
- √ Soaked Chia seeds: 2 tbsp
 Superfood that is rich in fibre. Mucilage acts as a thickening agent.

✓ Crushed Flax

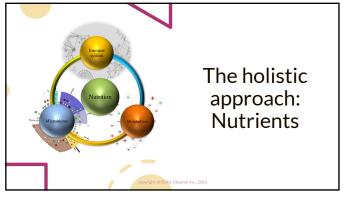
Source of fibre. Can be beneficial for bulking stool.

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REGULATE pH

✓ Sodium Bicarbonate (baking soda)
Excellent source of antioxidants and minerals. Supports cellular detoxification.





Nutrients

- ✓ Probiotics: 50 100 billion CFU's daily Pre- and probiotics, improves digestion and nutrient absorption, aids intestinal immunity, aids leaky gut.
- ✓ Potassium Citrate: 1000 mg daily pH regulation, eliminating waste, digesting protein.
- Folic acid: 1 tsp daily (=10 mg daily)
 Supports protein digestion and promotes the natural production of probiotics. Is necessary for tissue repair.
- ✓ Magnesium Citrate: 1500 mg daily Helps carbohydrate digestion. Soothes nervous system and relaxes the tissues.
- ✓ Zinc Citrate: 150 mg daily
 Helps support a healthy mucosal lining in the stomach.



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Herbs

- Pro-Dygest herbal blend: 2 Tbsp daily Intestinal cleanser and detoxifier. Protects intestinal membranes from mal-digested feed material and irritations.
- ✓ Marshmallow root: 1 tbsp daily Helps soothe and repair the intestinal lining
- ✓ Calm & Cool herbal blend: ¼ cup daily Supports the nervous system and adrenals in cases where stress is a significant factor in causing the ulcers. Soothes the digestive system.
- Y Stomach Ease: 2 thop daily A digestive blend of herbs to support the health of the stomach lining and the intestinal membranes of the hindgut. Helps to maintain normal digestive pH in acidic horses.
- Five Herb Digest: ¼ cup daily
 Promotes healthy digestion and soothes the intestinal tract. Helps to lessen gas and
 bloating. Supports the intestinal immune system.





Homeopathy

Gastricol

Helps eliminate toxicity from chemicals and parasites. It also helps address digestive symptoms such as acid reflux, indigestion, bloating, and gas.

- Arsenicum (chilly and aggravated by cold)

 Great restlessness and anxiety

 Helps with burning, acid reflux and symptoms of gastritis

 Diarrhea especially with anxiety



