



Anatomy and Physiology of the Equine Stomach

Anatomy of the Equine Stomach

The stomach of an average-dized horse can hold 10-15L of fluid/feed

Fundus - the upper portion

squamous epithelium
orminal protections against acid
Pylotic antrum - the lower portion
glandular epithelium
owell developed protections against acid
Divided by the margo pilcatus
Lesser curvature and greater curvature

Physiology of the Equine Stomach

Herses are monogastric animals
One stomach, similar to humans, dogs, cats
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On Insurance secretion of acidic digestive piaces
On 1.9. per hour
On onto hydrochloric acid, digestive enzymes
Liquid meal empties in ~30 min
Hay meal can take up to 24hrs to empty

Physiology of the Equine Stomach

o pH varies within the stomach:

Near esophagus -pH 7.0 (neutral)

At pryarus -pH 1.5 - 4.0 (moderately to extremely acidic)

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Low pH is important for digestion of feed material and serves as a defence mechanism against ingested bacteria, viruses, parasites























































