Management for a Healthy GI Tract

Kelly Payne, PAS

Triple Crown Feed

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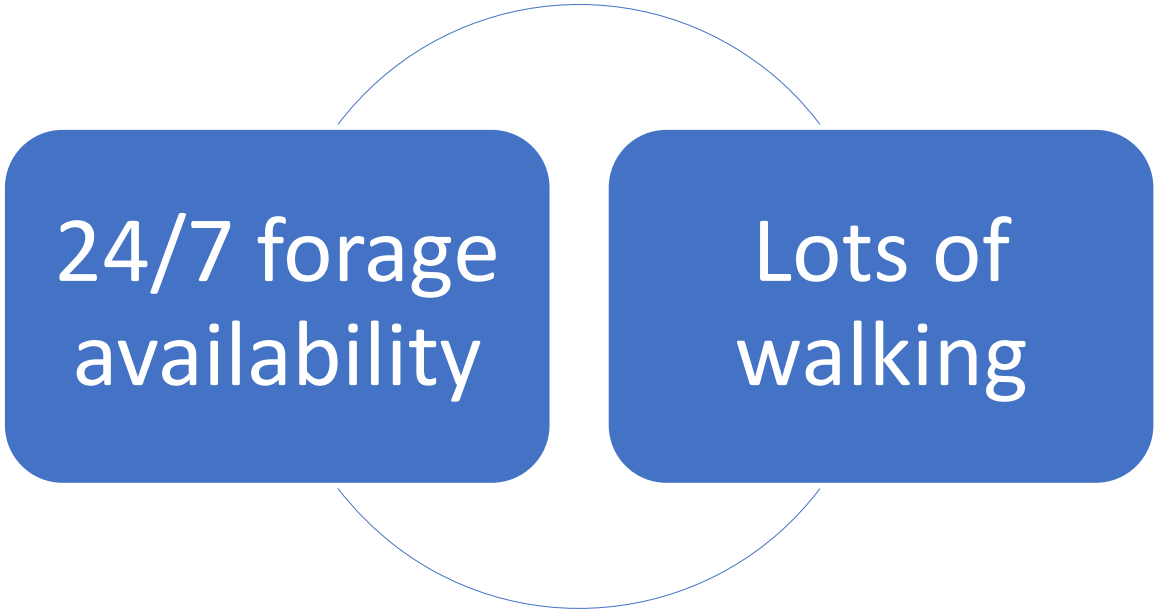
CR1

How are horses designed to work?



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Slide 2

CR1 Christina Reynolds, 10/25/2018

Modern Horse Management

- Stalled part (or all) of day
- Poor pasture
- Grain meals
- Limited movement

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Hot Topics in Equine Athletes

- Gastric Ulcers
- Hindgut Inflammation
- Leaky Gut Syndrome

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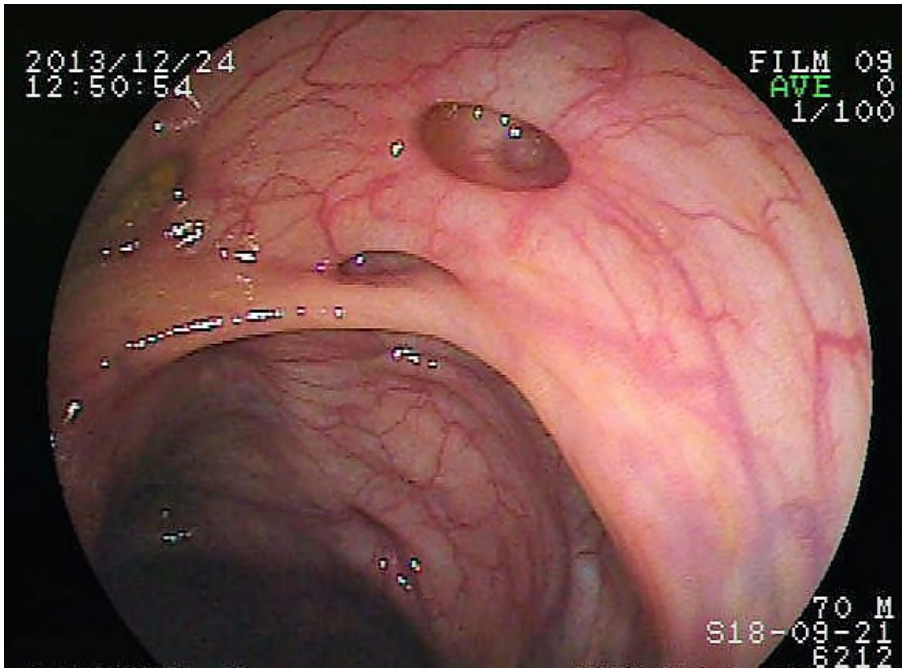
This

Gastric Ulcers



- Occur in the stomach
- Two portions to the stomach- glandular and non-glandular, can get ulcers on both, as well as the pyloric region
- Once present, require medical treatment
- Management can help avoid occurrence and can help with recovery

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Gastric Ulcer Symptoms

- Biting at sides
- Eat bite of feed, retreat
- Girthiness- reactivity when saddling
- Lying down more than normal
- Stretching stance after eating
- Resistant to forward movement/leg aides

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Hindgut Inflammation & Hindgut Ulcers

- Hindgut = cecum and large intestine, fermentation zone
- 44-60% horses have colonic ulceration, higher in performance horses, 70% in racehorses
- SOME CAUSES:
- Microbial balance out of whack (“alterations in intestinal microbiota”)
- - caused by feed, antibiotics, pasture changes
- Stress
- Mycotoxins/toxins/pathogens
- NSAIDs/other drugs

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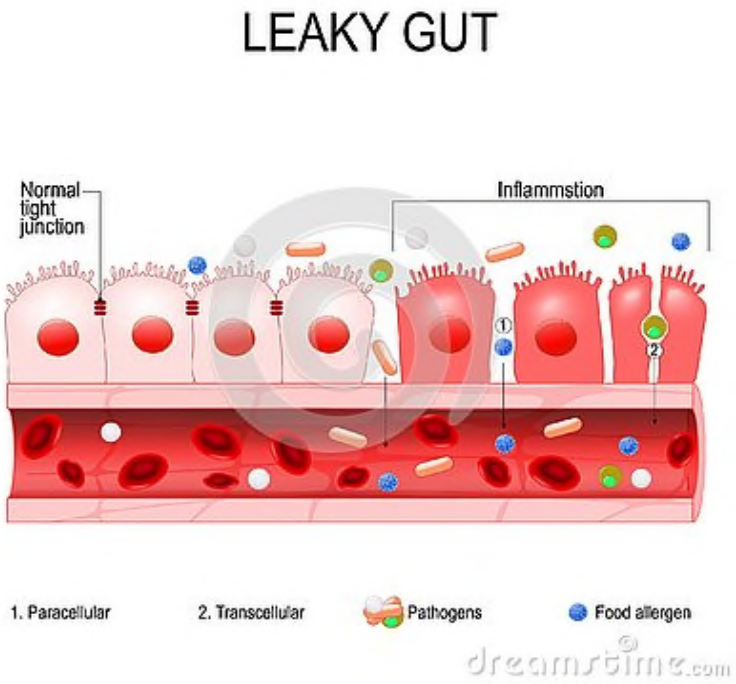
Leaky Gut



- Increased permeability of the intestinal wall- increased space between the cells
- Allows larger proteins out of the gut
- Allows harmful substances to be absorbed into the bloodstream
- Immune system can become hypersensitive

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Signs and Symptoms

Similarities between fore and hindgut issues:

***change in behavior/personality**

***grumpy, doesn't like being touched/groomed**

***"poor doer"- weight loss, poor performance**

***poor hair coat**

***reduced immune function**

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COMMON CAUSES OF LEAKY GUT SYNDROME

- Stressors: Training/Injuries/Heat, Weather Changes/Trailering/Abrupt change in feed or hay
- Excessive time spent in stalls
- Socialization issues: new grouping or new horses
- Pathogenic bacteria: Clostridium difficile, Clostridium perfringens, Salmonella etc..
- Medications: NSAIDS, deworming, Omeprazole, Antibiotics
- Toxins from mold, parasites

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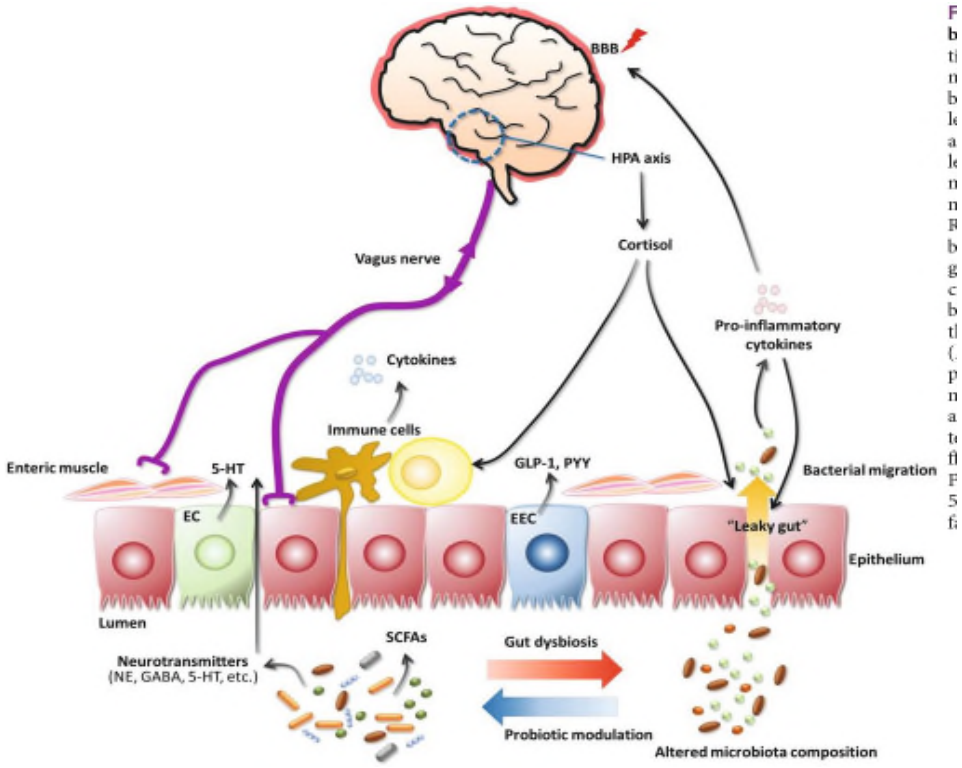
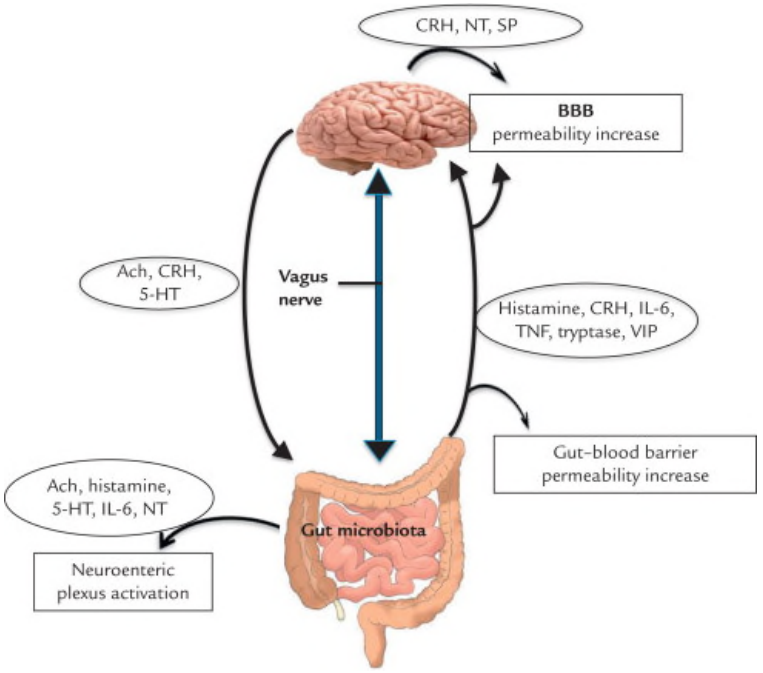
Leaky gut = leaky brain





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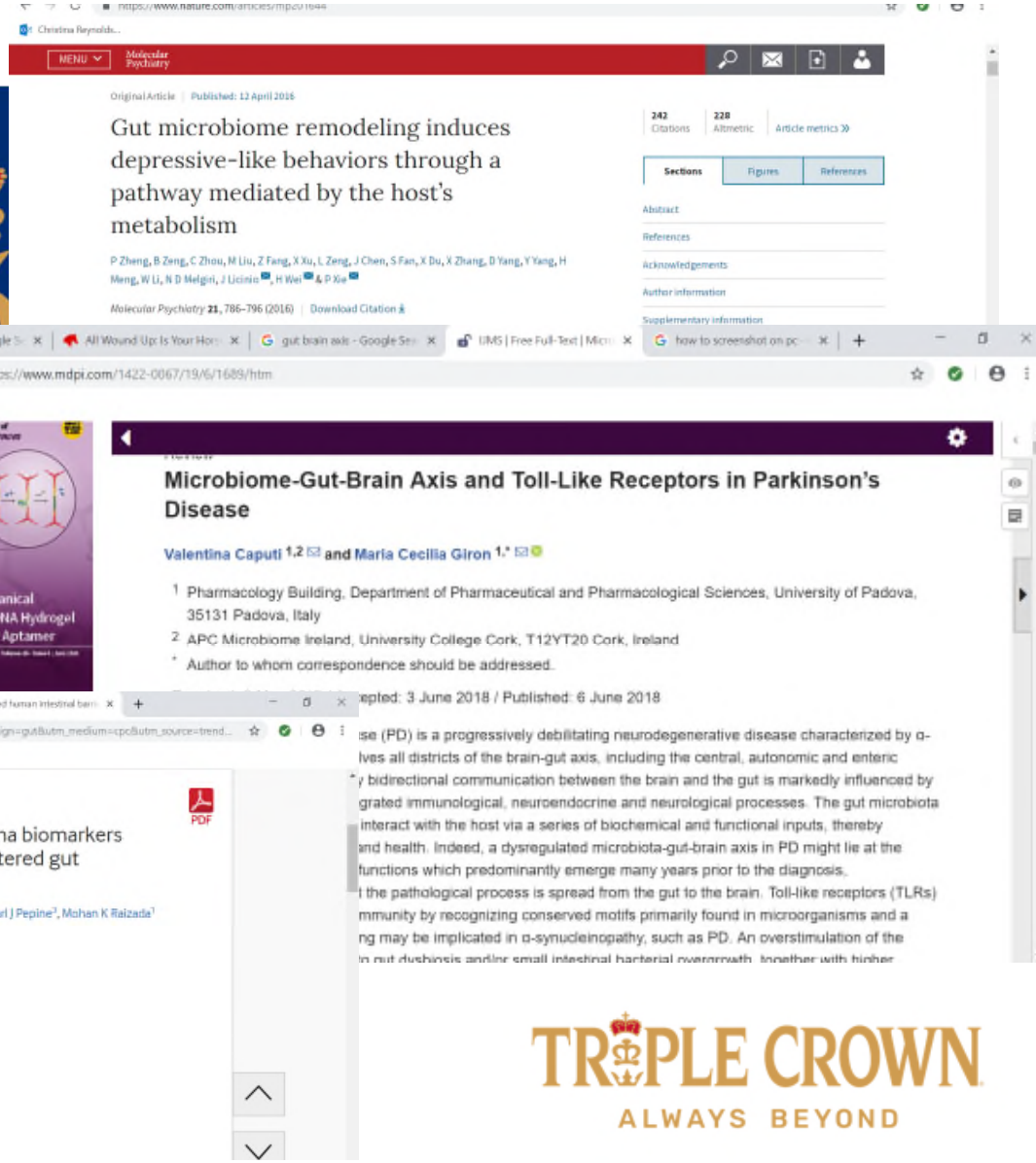
In Humans…

Gut dysbiosis linked with:

Anxiety	Hypertension	Dementia
Depression	Rosacea	Alzheimer's
Autism	Psoriasis	Autoimmune
Parkinson's	Eczema	Allergies
Migraines	Hashimoto's	Type 2 Diabetes



Simple Changes to Help with GI Issues

1. Maximize turnout time
2. Ensure free choice forage
3. Low carb concentrate when needed
4. Limit stress

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Turnout Time

Eating	More eating
Walking	More walking

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Free Choice Forage

Grass- metabolic limitations, seasonal limitations

Hay- choose by calorie needs so horse can eat 1.5-2% of body weight, slow feeder nets/bags

Bagged forage- can be soaked if needed, use ways to slow down intake

Soaked cubes- multiple meals per day for horses with compromised teeth, feed before riding/travelling

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Lower Carbohydrate Ingredients:

- Avoid “grains”- corn, wheat, barley, oats
- Look for high digestible fiber- alfalfa meal, soybean hulls, wheat middlings
- Look for high fat (if you don’t have an easy keeper)

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Limiting **Stress**

- Easier said than done…
- Transport
- Training
- Stall neighbors/ pasture buddies
- Heat stress

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Additional ideas

Good quality probiotic, prebiotics

- Look for at least 1 Billon CFUs of each strand

Omega 3:6 ratio- help decrease inflammation

- Good sources of O3: fish oil powder, ground flax, grass

Beet pulp-based concentrate- produces helpful volatile fatty acids that help with villi regeneration

- TC Senior/TC Senior Gold

Buffering agents- help decrease acidity in stomach

- Alfalfa, supplements, StressFree

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How Can Triple Crown Products Help

- EquiMix Technology: Found in all Triple Crown Products

- ButiPEARL Z EQ: an encapsulated form of Butyric Acid and Zinc
  - Acts as an energy source for the epithelial cells and strengthens the tight junctions of the intestinal lining
  - Helps reduce gut inflammation and promotes healing
  - Promotes a strong barrier against pathogens, parasites and toxins
  - Improves nutrient absorption

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Triple Crown EquiMix

- **Probiotics - 1Billion of each strain. Helps crowd out pathogens, better digestion and utilization of nutrients**
- **Hydroxy minerals**
- **Prebiotic fiber feeds the "good bugs" and helps them flourish (beet pulp)**
- **Digestive enzymes for better utilization of protein and fiber**
- **Mannanoligosaccharides (MOS) bind to pathogens such as E coli and salmonella**
- **ButiPearl Z EQ encapsulated butyric acid helped strengthen the gut wall**
- **Clostat (Bacillus subtilis PB6) Has a proven mode of action in its inhibition of equine-specific pathogens including a variety of *Clostridium* species.[2]**
- **Lysoforte natural emulsifier that increases fat digestion**

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New Terminology for the Microbiota

- Prebiotics: Feed ingredients that stimulate growth or activity of the probiotic bacteria.

- Probiotics: Live micro-organisms themselves, that confer a health benefit to the horse

- Postbiotics: result of probiotic activity. Non living by products or metabolites; examples include short chain fatty acids (acetate/butyrate: help reduce inflammation)

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Any Questions?

Triple Crown Customer Service

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