Dr. Carney Jackson

Date: Tuesday, November 11, 2014  
Time: 8:00 a.m.-8:50 a.m.  
Presentation Title: Equine Enteric and Hepatic Pathology  
Session Title: Concurrent Session IV: Equine Pathology

Extended abstract

Review of liver conditions in equine with selected gross images.


Equine hepatic bacterial disease- C. piliforme Bacillus

Sarcocyst- Hepatic sarcocystosis in a horse

Hepatic lipidosis of donkeys and ponies- Hepatic-lipidosis in a post parturient mare.  

Hepatic lobe torsion in a horse

Hypoglycemia and hepatic ischemic necrosis after small intestinal incarceration through the epiploic foramen in a horse.

Hepatic encephalopathy

Hepatic ischemia

Toxic hepatopathy- Suspected hepatotoxicity in neonatal foals

Toxic hepatopathy in neonatal foals

Aflatoxicosis in the weanling pony

GI anatomy review with selected gross images.

Equine digestive problem review with selected gross images.

Quid- Tooth malformation causing the dropping of food or saliva  
Esophageal obstruction/choke

Colic:  
1)Obstruction, mal-position of parts, rectal tear
1) Poor quality feed or haystuffs
2) Poor dentition
3) Impaction- Sand, meconium
4) Decrease in amount of water being taken in due to low quantity or low palatability
5) Worm infestations
6) Strangulation- Lipomas, Meckel’s diverticulum, Umbilical/diaphragmatic hernia
7) Enteroliths
8) Impaction [link]
9) Spasmodic colic
10) Gastritis/ulceration
11) Fermentation or gas colic
12) NSAID- Stomach ulcers, colitis, kidneys

Diarrheal disease
Dysautonomia
Adhesion
Bowel twist/torsion, perforation
Endo-toxemia- bad gut flora overwhelming the good
Gastric distention
1) Cribbing
2) Microorganisms
3) Food stuff swelling after digestion
4) Highly digestible feeds (corn) causes gas build up in GI tract
5) Rapid ingestion of large amount of water
6) Gastrointestinal irritation from blister beetles
Eosinophilic enterocolitis
Pancreatitis
Neoplasia/Infiltrative bowel disease
   Lymphoma, granulomatous enteritis, lymphocytic-plasmacytic enterocolitis
   Multisystemic eosinophilic epitheliotropic disease, eosinophilic enterocolitis
   Melanoma (eg. salivary glands), intestinal adenocarcinoma
Parasitism-
Epiploic foramen intestine strangulation
Edema renal failure
Stomach rupture
Foals with Lactase Deficiency (Lactose Intolerance) [link]
Foal heat diarrhea
Neonatal foal differential DXs- Meconium retention, Enterocolitis
Uroperitoneum
Ileus
Herniation (inguinal, diaphragmatic, or external)
Gastric ulceration
Small intestine volvulus
Intussusception
Necrotizing enterocolitis
Peritonitis
Intestinal atresia
Ileocolonic aganglionosis/Lethal white syndrome
Large colon torsion (Slovis Infectious GI disorders in Foals)
Trauma
Equine intestine bacterial diseases-
   Clostridial- Clostridium botulinum
   Enteritis- Escherichia coli, Salmonella typhimurium, Salmonella anatum,
           Lawsonia intracellularis, Melioidosis- Pseudomonas pseudomallei
   Ulceration of intestine- Sphaerophorus necrophorus
   Listeria monocytogenes
Mycobacterium-
   Mesenteric lymph nodes- Rhodococcus abscessation
   Neorickettsia risticii (Potomac horse fever)
Equine intestinal viral disease-
   Rotavirus
   Coronavirus

References:
2001 / Vol. 47 / AAEP PROCEEDINGS MILNE LECTURE: GASTROINTESTINAL DISEASE
A New Look at Equine Gastrointestinal Anatomy, Function, and Selected Intestinal Displacements
Equine proliferative enteropathpy caused by Lawsonia intracellularis
Intestinal bacterial diseases of horses
http://www.mds-usa.com/micro_bacteriology_horses.html
Equine proliferative enteropathy caused by Lawsonia intracellularis
Intestinal bacterial diseases of horses
http://www.mds-usa.com/micro_bacteriology_horses.html
INFECTIOUS GASTROINTESTINAL DISORDERS  Nathan M. Slovis DVM, Diplomate
ACVIM, CHT Hagyard Equine Medical Institute, Lexington, KY
http://www.pnas.org/content/110/15/E1407
http://www.pnas.org/content/early/2013/03/15/1219217110
http://dx.doi.org/10.1073/pnas.1219217110
Distinctive virus behind mystery horse disease, Ed Yong, 18 March 2013
http://www.nature.com/news/distinctive-virus-behind-mystery-horse-disease-1.12624
Theiler's disease virus identified http://www.equinescienceupdate.com/articles/tdivi.html
Theiler’s disease (acute serum hepatitis) causative agent identified, 21 Mar 2013
British Equine Veterinary Association
Etiology and Prevention of Equine Serum Hepatitis (Theiler's Disease) Dr. Thomas Divers
http://www.vet.cornell.edu/Zweig/Projects/Divers13.cfm