Liver of Horse

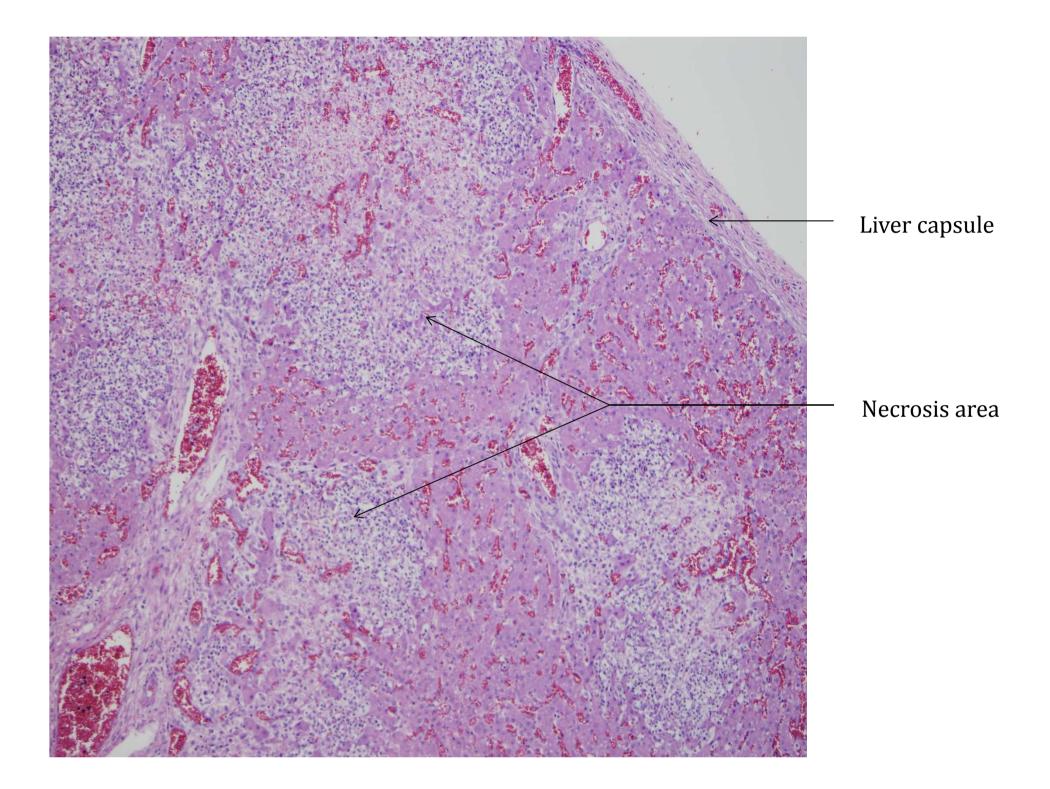
2017-2-1

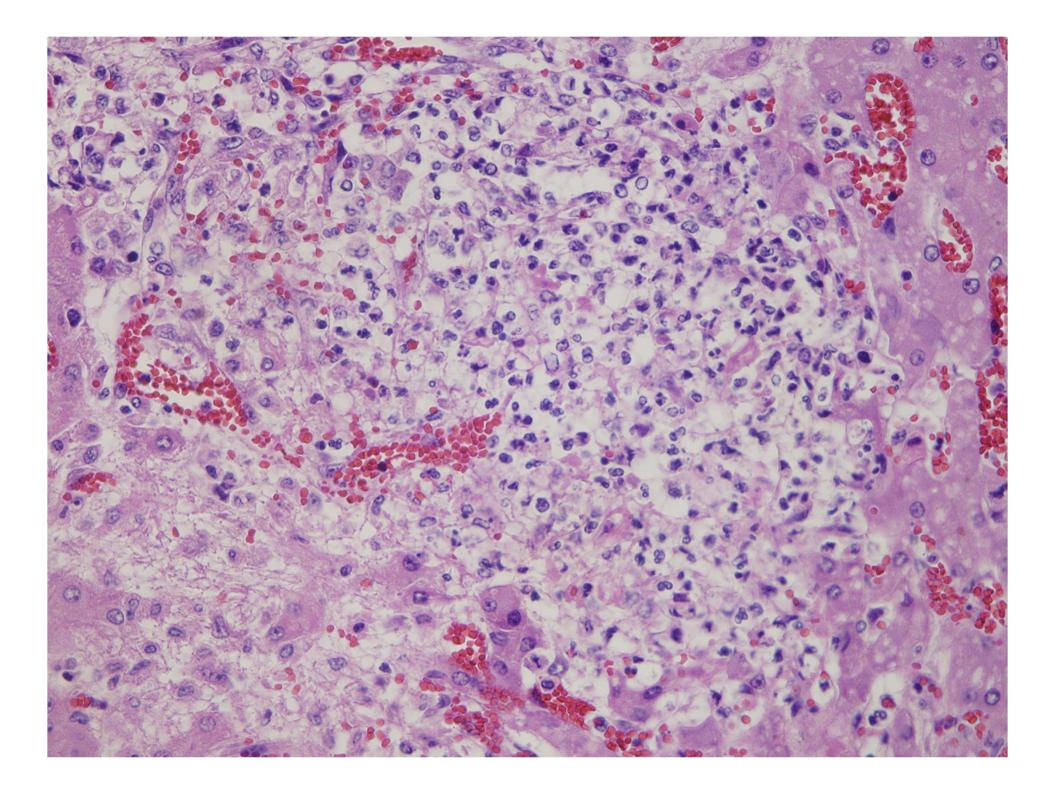
Sandi Htein Linn

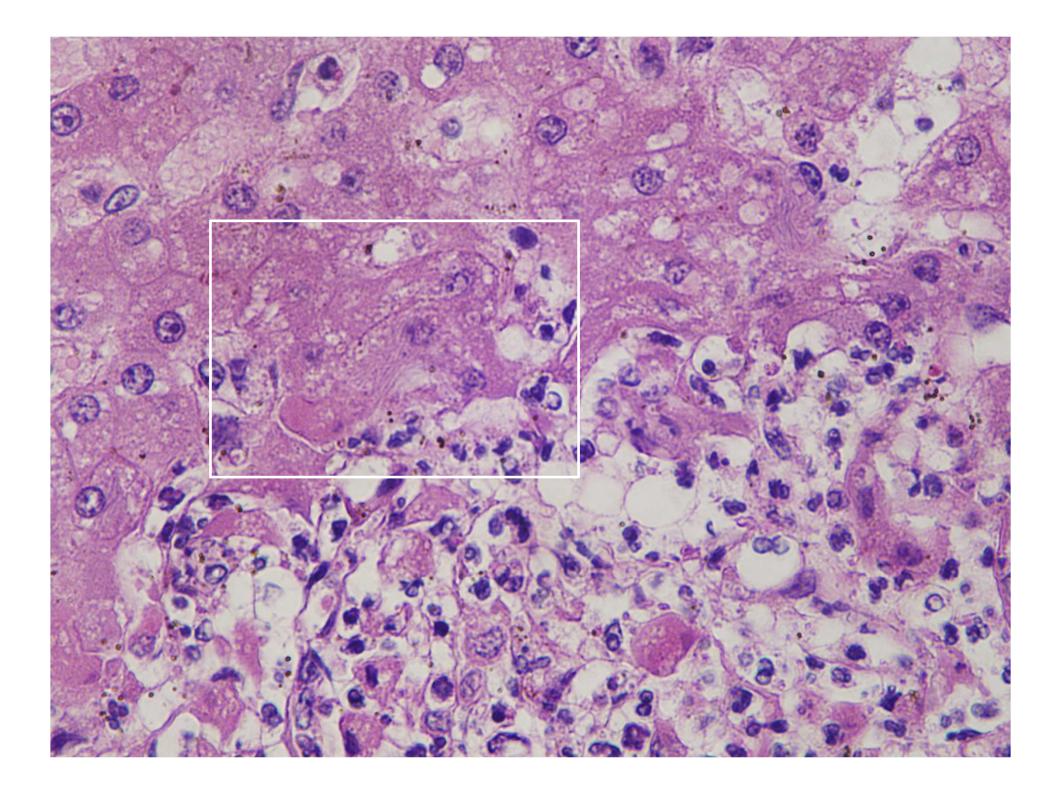
Contributor:	Oklahoma State University, USA
Signalment:	1- month old, intact female, Thoroughbred horse (<i>Equus caballus</i>)
History:	The owner found her dead in the stall

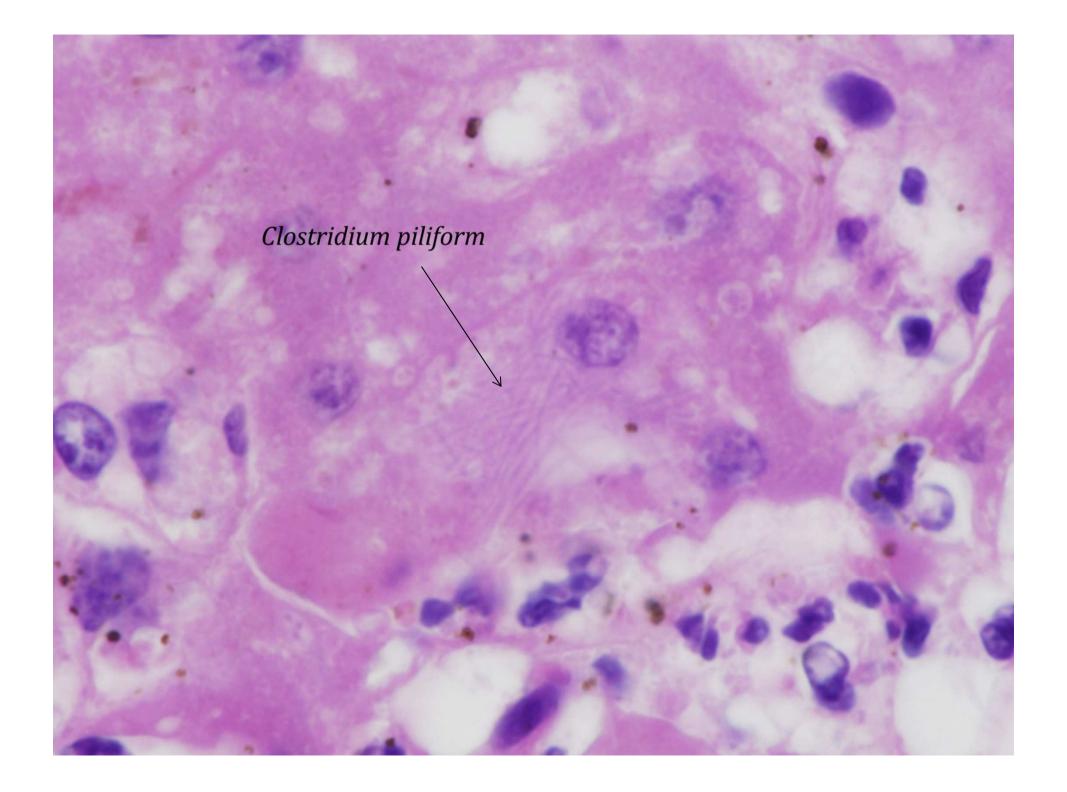
She was behaving normally the night before

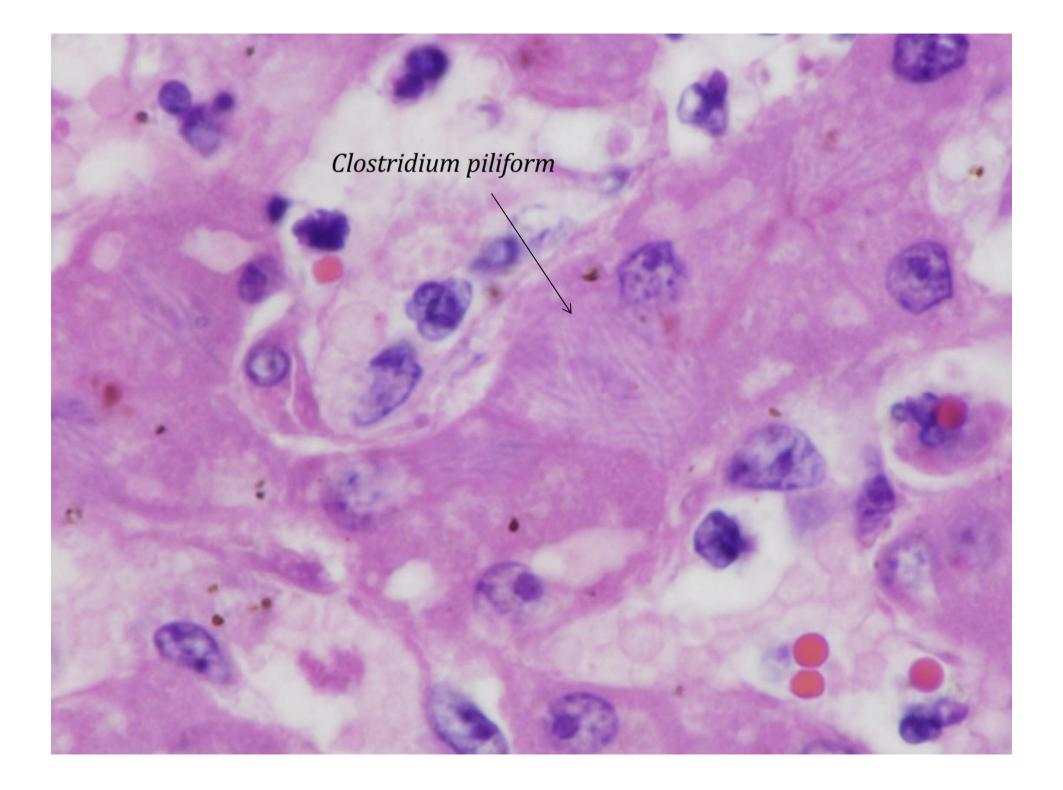
Gross pathology:The conjunctiva, sclera, and adipose tissue are yellowThe liver is enlarged and skeletal muscle is pale

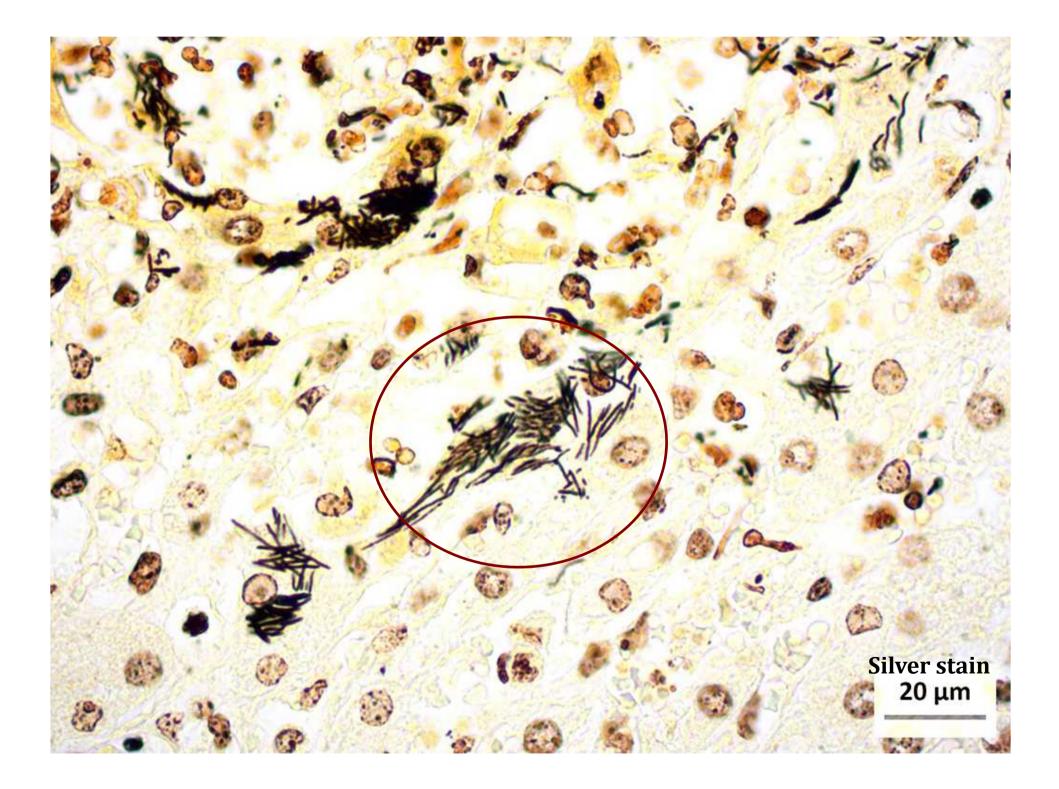












Contributor's Diagnosis:

Liver: Severe, acute, multifocal to coalescing, random, necrosuppurative hepatitis with intracellular bacilli and moderate bile stasis



Liver: Hepatitis, necrotizing, multifocal to coalescing, random, marked with numerous intracytoplasmic bacilli, thoroughbred equine

Contributor's comment

- caused by *Clostridium piliform* (filamentous, spore forming, gram negative, argyrophilic, obligate intracellular bacterium)
- occur in under 6 weeks of foals
- display non-specific signs for 24-48 hours before death
- In younger foals, usually dead without signs of illness
- Icterus is a common squeal of hepatic damage
- Inflammatory cells are found in necrotic lesions
- Silver stain confirm the diagnosis of *Clostridium piliform* such as intracellular black bacilli are bundle within the hepatocytes at the periphery of necrotic foci.

Conference comment

This disease is resulting in;

- Multifocal necrosis of the liver
- Acute necrotizing of hepatitis
- Coagulative necrosis
- Prominent inflammatory cells in necrotic lesion

Differential diagnosis with the following diseases;

- Equine herpesvirus-1
- > Actinobacillus equuli
- Septicemia due to *Salmonella* sp. and *E.coli*