Sadie
Christina Peck
UTCVM class of 2018
History

- 3 week old Golden Retriever Puppies
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  - 8 puppies total in the litter
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History

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  - 5th puppy to be affected and die
- Clinical signs
- Additional diagnostics:
  - Radiographs
Gross Findings

- Multifocal red-orange 1mm foci on:
  - Kidneys
  - Liver
  - Spleen
  - Submandibular lymph nodes

- Lungs
  - Rubbery and diffusely red orange
Diagnoses

- Morphologic Diagnosis:
  - Severe acute multifocal renal necrosis and hemorrhage
Diagnoses

- **Morphologic Diagnosis:**
  - Severe acute multifocal renal necrosis and hemorrhage

- **Final Diagnosis:**
  - Canine Herpesvirus-1 Infection
Canine Herpesvirus-1

- Etiology:
  - α-Herpesvirus with a narrow host range
Canine Herpesvirus-1

- Etiology:
  - α-Herpesvirus with a narrow host range
- Epidemiology:
  - Persistent and latent infection
Canine Herpesvirus-1

- Etiology:
  - α-Herpesvirus with a narrow host range

- Epidemiology:
  - Persistent and latent infection

- Predisposing factors for neonatal puppies:
  - Hypothermia
    - Optimal temperature for CHV-1 is 35-36°C
  - Underdeveloped immune system
Why do we care?

- Important differential for:
Why do we care?

- Important differential for:
  - Acute death
Why do we care?

- Important differential for:
  - Acute death
  - A litter of puppies
Why do we care?

- Important differential for:
  - Acute death
  - A litter of puppies
  - Necrohemorrhagic lesions on the kidney
CHV-1 in adult dogs

- Usual Presentation:
CHV-1 in adult dogs

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  - Respiratory infection (kennel cough)
CHV-1 in adult dogs

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  - Respiratory infection (kennel cough)
- **Others:**
  - Keratitis
  - Papulovesicular genital lesions
  - Embryonic resorption, abortion, and stillbirth
CHV-1 in adult dogs

- **Usual Presentation:**
  - Respiratory infection (kennel cough)
  - Others:
    - Keratitis
    - Papulovesicular genital lesions
    - Embryonic resorption, abortion, and stillbirth

- **Usual underlying cause:**
  - Immune suppression
CHV-1 in adult dogs

- New findings:
  - Causal relationship between CHV-1 and acute primary respiratory disease
CHV-1 in adult dogs

- New findings:
  - Causal relationship between CHV-1 and acute primary respiratory disease
    - Case series of four dogs that were not immunosuppressed and did not have clinical signs until an acute onset of respiratory distress (Kumer et al 2015)
    - Case report of a Bichon Frise dog with no history of immunosuppression or concurrent disease (Gadsden et al 2012)
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