Case 51:
N 13-1293

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Signalment and History

- 6 week old male mixed breed Shepherd cross puppy found dead
Signalment and History

• 6 week old male mixed breed Shepherd cross puppy found dead

• Bitch and 6 additional litter mates recently entered foster care
  • Vaccination status unknown
Signalment and History

- **Herd health:**
  - Bitch: cough
  - One littermate: pneumonia
  - One additional death
Gross Findings
Histologic findings
Ancillary Tests

• Virology:
  • PCR for Canine Distemper Virus: Negative
  • RT-PCR for Canine Parvovirus: Positive!!
Ancillary Tests

- **Virology:**
  - PCR for Canine Distemper Virus: Negative
  - RT-PCR for Canine Parvovirus: Positive!!

- **Tongue vs. Heart?**
Ancillary Tests

- **Virology:**
  - PCR for Canine Distemper Virus: Negative
  - RT-PCR for Canine Parvovirus: Positive!!

- **Tongue vs. Heart?**

- **Immunohistochemistry for Canine Parvovirus**
Interpretation:

Tongue: Multifocal ulceration and epithelial degeneration with intranuclear and pseudocytoplastic inclusion bodies consistent with Canine Parvovirus
Discussion

• Canine Parvovirus-2 inclusions in tongue epithelium may be both intranuclear and pseudocyttoplasmic
Pseudocyttoplasmic Inclusions in Tongue Epithelium of Dogs with Canine Parvovirus-2 Infections
Gordon A. Hullinger, Murray E. Hines II, Eloise L. Styer, Ken S. Frazier and Charles A. Baldwin
Discussion

- Tongue is superior to intestine in both dogs and cats
Discussion

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  • More consistent inclusions
    • Persist for days to weeks
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  • Resists autolysis
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• Tongue is superior to intestine in both dogs and cats
  • More consistent inclusions
    • Persist for days to weeks
  • Resists autolysis
  • Easily obtainable
Discussion

• Oral and lingual erosions and ulcerations can occur
  • Secondary to epithelial degeneration
SAMPLE TONGUE!!!!
SAMPLE TONGUE!!!!

CAT GOT YOUR TONGUE?

GOOD
THANKS!!!

- Histo lab
- Kansas State University
- Fellow residents
- Drs. Newkirk and Donnell

How to recognize the moods of an Irish setter
Okay Tell me!!

I'm all ears!