Signalment/history

• Mare

• 9 yr old multiparous

• Presented on day 281 of gestation for purulent vulvar discharge

• Clinically diagnosed with ascending bacterial placentitis and Nocardia form placentitis

• Tx with multiple antibiotics since day 281 of gestation
Signalment/history

• Foal was born alive on day 291 of gestation
  • Immature cartilage formation
  • Minimal hair coat development
  • Labored breathing and vocalization
  • Euthanized

• Placenta
  • Passed within several minutes post-delivery
Necropsy

- Foal
- Premature
- Placenta
  - Necrotizing pyogranulomatous placentitis
  - Adenomatous hyperplasia
  - Pyogranulomatous funicitis
Additional Testing

- Microbiology (in-house): From placenta immediately after parturition.
  - Moderate growth:
    - Mixed bacterial flora with no clear predominance, including:
      - 1. *Enterobacter* sp.
      - 2. Mixed Gram negative bacilli
    - No Nocardia or actinomycetes isolated
Additional Testing

- Samples of placenta were submitted to the University of Kentucky Veterinary Diagnostic Laboratory for further testing
  - Bacteriology:
    - Overgrowth of saprophytic microorganisms
    - *Leptospira* sp.: negative
  - Virology
    - Virus isolation: none isolated
    - Equine Herpesvirus-1: negative
Adenomatous hyperplasia

- Associated with chronic bacterial or fungal placentitis
  - *Nocardia* spp.
  - *E.coli*
  - *Pseudomonas* spp
  - *Aspergillus* spp.
- Typical gross finding
  - Variably sized tan nodules near the umbilical stalk
Adenomatous hyperplasia

• Categories

• Stage 1: hypertrophy of allantoic epithelium and formation of intracytoplasmic vacuoles and glandular formation

• Stage 2: glandular structures associated with reactive stroma

• Stage 3 (current case): formation of nodules composed of glandular structures in a reactive stroma
References

• Buergelt CD and Del Piero F. Color Atlas of Equine Pathology. Pg. 370.

• Hong, CB, Donahue JM and Giles RC. 1993. Adenomatous hyperplasia of equine allantoic epithelium. Vet Path 30; 171-175.


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Thank you and Questions

• Thank you
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  • UF faculty
  • Dr. Scott Terrell
  • Histology lab – Tim Owens