Case # P14002463: Abdominal fluid from a dog

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Presentation

- 7 year old female intact Boxer
- 12x10 cm cranial abdominal mass
  - Associated with body wall or mesentery (per U/S)
- Bicavitary effusion
  - Abdominal fluid
  - Thoracic fluid
Abdominal fluid analysis

- **Color/turbidity:** Red, opaque
- **Total nucleated cell concentration**
  - 28,870/μL
- **Red blood cell concentration**
  - 540,000/μL
- **Total protein (refractometer)**
  - 2.5 g/dL
- **Specific gravity**
  - 1.020
Cytologic features

- Cohesive cell clusters
- Large cells, moderate to marked atypia
- Highly vacuolated (lipid)
- Perivascular arrangement, capillaries
- Highly proteinaceous background
- Smooth pink material within clusters
  - Call-Exner-like bodies?
Histogel H&E
Histogel IHC: Inhibin-α
Diagnosis

- Carcinomatosis
- Some cytologic features and IHC compatible with...
  - Granulosa cell tumor
  - Adrenocortical carcinoma
Other Markers?

- Synaptophysin
- Chromogranin A
- Cytokeratinins – AE1/3 vs CK7
- ACTH receptor
References


Thanks! Any Questions?