Atypical Spindle Cell Proliferation in the Ciliary Body of a Cat with Presumptive FIP

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History

- DSH, male, unknown age
  - Forelimb lameness (R>L?) of unknown etiology
    - Joint tap (R carpus): *Mycoplasma* negative
      - Bacterial culture negative
      - Cytology NSF
      - ANA negative
  - Progressive leukopenia & lymphopenia
  - Iridal mass in temporal quadrant OD
    - *Toxoplasma gondii* titer: 1:1024

- Euthanasia
Gross Findings

- Left carpus: Equivocal thickening
- Peripancreatic mesenteric fat: 1x1x2 cm focus of firm, yellow-brown discoloration (= LN?)
- Spleen (serosal & cut surface): Multiple 3-5 mm pink foci
- Diaphragm (abdominal surface): 2-4 mm, soft, white, spherical nodules (= lipomas)
Histologic Findings

• **Pancreaticoduodenal LN:**
  – Large cells with vacuolated cytoplasm and pleomorphic cleaved nuclei; heavy eosinophilic infiltrate (*Eosinophilic granulomatous lymphadenitis*)

• **Peripancreatic fat:**
  – Many lymphocytes, macrophages and eosinophils, with fibrosis and focal aggregates of neutrophils

• **Spleen:**
  – Aggregates of large cells and eosinophils; two PTAH-positive fibrin deposits (*Fibrinous extravasations*)

• **Small intestine:**
  – Diffuse hypercellularity (plasma cells and few eosinophils)
  – Lymphoid tissue of Peyer’s patch with uniform population of large cells with pleomorphic cleaved nuclei

• **Liver:**
  – Diffuse portal infiltration of plasma cells, few lymphocytes and PMNs and scattered eosinophils that focally form dense aggregates (*Chronic cholangitis*)
Histologic Findings (cont.)

- **Right carpus (Chronic eosinophilic osteomyelitis):**
  - Metaphyseal bone resorption
  - Marrow space with fibrin, hemorrhage and proliferating fibroblasts
  - Lymphocytes, neutrophils and eosinophils extend from the marrow space through the resorbed bone into the muscle

- **Left carpus (Chronic eosinophilic osteomyelitis):**
  - Marrow fibrosis and infiltration with eosinophils and lymphocytes

*Lesions most consistent with Feline Infectious Peritonitis (?)*

- Eye: ...
IHC for CD18