

Acute Pancreatic Necrosis in Quaker Parrots

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CASE HISTORY

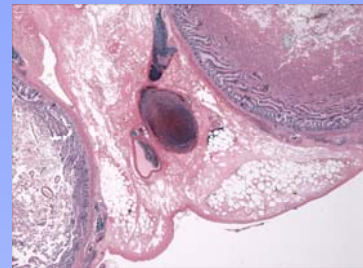
- **CASE I:** 3 year old male Quaker parakeet presented with acute symptoms of dyspnea, regurgitation, and lying down in cage.
- **CASE II:** 4 year old male Quaker parakeet presented as dehydrated & moribund, was treated for metal toxicity, but died shortly afterwards.

HISTOLOGICAL FINDINGS

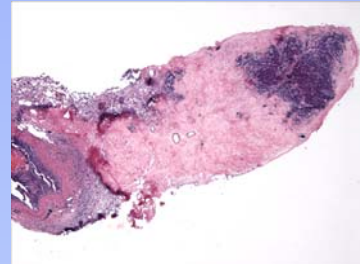
- **Pancreas:** Both cases showed severe, diffuse pancreatic necrosis with no inflammatory response. [Figs. 1, 2, 3]
- **Adipose tissue:** Multifocal areas of fat necrosis in adipose tissue adjacent to the pancreas in both cases. [Figs. 1, 3]
- **Lung:** Moderate, diffuse parabronchial edema in both cases in combination with edema of the air sacs & perivascular areas in Case I [Fig. 4] and of air capillaries in Case II [Fig. 5]
- **Liver:** Necrosis with vacuolation of the hepatocytes near the surface in Case I. In Case II, there were numerous hemosiderin granules in the cytoplasm of hepatocytes.

GROSS NECROPSY

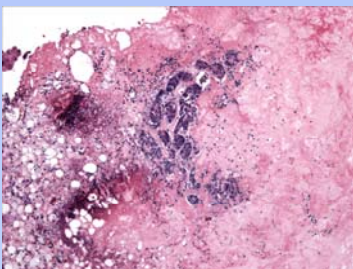
- **CASE I:** Necrotic spleen & proventriculus, excess abdominal fluid & airsacculitis.
- **CASE II:** Hemorrhagic lungs, abnormal pancreas, excess subcutaneous fat, enlarged testicle, & mottled liver with rounded edges.



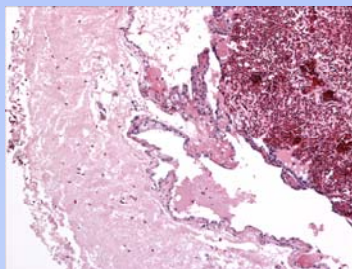
1. Case I: Necrotic pancreas between duodenal loops.



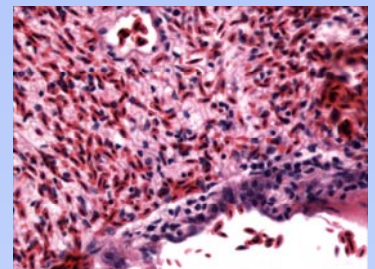
2. Case II: Necrotic pancreas with small patch of normal acinar cells.



3. Case II: Necrotic pancreas with necrosis of adjacent fat.



4. Case I: Edematous air sac and fibrin in adjacent tissue.



5. Case II: Edema in air capillaries.

CONCLUSIONS

The diagnosis in both of these cases was "acute pancreatic necrosis" of unknown origin. A connection between necrosis of the liver and edema in the lung and/or air sacs seems to be consistent with previous cases in Quaker parrots. It is unknown if the disease is systemic or if inflammation produces a response in multiple organs.