



ECVP/ESVP Summer School in Veterinary Pathology



Marie Curie Training Courses

Summer School 2007 – Avian Q4

Slide Q4: Tissue from a Guinea fowl

Tissue: Pancreas and duodenum (intestine)

Morphological description:

No change on the 2 sections of duodenum. Lesions located on pancreatic parenchyma and on perilobular and peripancreatic serosa.

Acute, severe, diffuse, subtotal lytic necrosis (or multifocal to coalescent, severe, extensive, lytic necrosis) extended to all the lobules of pancreatic parenchyma.

Massive destruction of the parenchyma appearing as irregular acidophilic areas without structures, with accumulation of cytoplasmic and nuclear fragmented debris throughout necrotizing areas.

Persistence of few identifiable pancreatic structures in the lobular periphery surrounding the necrotic areas. The remaining pancreatic parenchyma exhibits severe degenerative changes with lost of acinar organisation and glandular cells with vacuolated cytoplasm, hyperchromatic dense nuclei and area of dedifferentiation.

In enlarged nucleus of few epithelial cells presence of intranuclear viral inclusion bodies, basophilic to amphophilic, badly defined, without peripheral clear halo. (Avian Adenovirus group I type).

A severe and extensive edema with few inflammatory cells exists in the perilobular connective tissue, peripancreatic serosa and surrounding extralobular excretory pancreatic duct.

Early repair by healing is observed in perivascular and perilobular spaces with fibroblasts proliferation (fibroplasia).

Morphological diagnosis/diagnoses

Severe, acute, necrotizing pancreatitis associated with intranuclear viral inclusion bodies of Avian Adenovirus group I type

Name the disease:

Guinea fowl Adenoviral Necrotizing Pancreatitis

Key words and marks:

Tissue	1
Design	2
Description:	
Location of the lesions (pancreas and peripancreatic areas)	1
Acute, severe, diffuse, subtotal lytic necrosis in pancreatic parenchyma	2
Description of necrosis lytic	1
Severe parenchymal degenerative changes (description)	1
Intranuclear viral inclusion bodies	1
Description of inclusion bodies	2
Avian Adenovirus group I type	1
Intralobular and serosal severe inflammatory edema	2
Fibroplasias	1
Morphological diagnosis/diagnoses	4
Name the disease	1