

ECVP/ESVP Summer School in Veterinary Pathology



Marie Curie Training Courses

Summer School 2005 - Urinary Tract Case 9

Case 9 (S04-0669.2)	Points
Species: Cat	
Organ: Kidney	
Description:	
The whole capsule and 3/4 of the kideny (cortex and medulla) is obscured due to multifocally distributed necrotic areas (necrosis) and a high amount of	
multifocally to diffusely arranged inflammatory cells.	
The capsule architecture and the upper cortex is lost due to necrosis of the tissue. The necrotic areas are admixed with condensed chromatin,	
karyomhektic and pyknotic neutrophils, as well as homogenous to fibrillar	
material (fibrin, coagulation necrosis). In these areas only shadows of tubular structures are visible. Vessel walls are eosinophilic and disrupted (fibrinoid	
chanses). On the edges of the necrotic areas large amounts of karyomhektic	
and pyknotic neutrophils, macrophases, plasmacells and lymphocytes are	
visible. Some macrophages show intracytoplasmic erytrocytes (moderate	
erythrophagocytosis).	
The tubular structures are sometimes disrupted in these areas due to	
infalmmatory processes. Multifocally vessels are also involved (mixed	
vasculitis).	
In the interstitium multifocally to diffusely clear blue material is seen (interpreted as proteoglycans; edema).	
In the pelvis around a vein a large amount of macrophages, without and with	
erythrophagocytosis, lymphocytes and plasmacells can be seen. At one point	
the inflammatory cells are found from the lumen to the adventitia (transmurally; <u>vasculitis</u>).	
In the medulla focally-extensive accumulation of erythrocytes is visible (acute	
bleeding), erythrocytes also engorge smaller vessels (hyperemia) and some	
macrophages and lymphocytes are also seen in the lumina of these vessels	
(leucocytostasis).	
Diagnosis:	
Severe, multifocal to coalescing necrotizing and pyogranulomatous nephritis	
with mixed cellular to fibrinoid vasculitis	
Etiology:	
Feline Coronavirus type 1	
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Name of the disease:	
Feline Infectious Peritonitis	