

ECVP/ESVP Summer School in Veterinary Pathology



Marie Curie Training Courses

Summer School 2005 - Urinary Tract Case 2

Case 2 (S04-0421.2)	Points (20)
Species: Dog	
Organ: Kidney	
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Description:	
Most glomeruli show plobal thickening of the plomerular basement membrane	
and moderate increased cellularity of mesanoial cells. Some glomeruli show	2 points
adhesions between glomerular loops and the Bowmann's capsule (synechie).	1 point
Bowmann's capsules are moderately to severly thickened and the slomerular	2 points
space is sometimes enlarged and filled with homogenous, eosinophilic	-
material (protein). Sometimes also blueish concrement are visible in the	
Bowmann's space or the glomerular tufts at the basement membranes	
(mineralization). Only few glomeruli are completely hyalinized and	1 point
eosinophilic and the glomerular loops adhered to the Bowmann's capsule	1 point
(selerotic slomeruli).	-
In the edematous interstitium multifocally a moderate to large amount of	
plasmacells and few macrophages are visible. In the cytoplasm of the	
macrophases multiple, round, some 2micrometer bis orsanism can be seen	
(protozoa interpreted as Leishmania).	3 points
Some tubuli show homogenous, eosinophilic material in the lumen (moderate	
proteinuria) or are slightly dilated as well as few tubular basement membranes	2 points
are severly thickened. In some tubular lumina mostly in the medullary region	•
finely stippled or granular to compact dark blue material is found	
(mineralization).	1 point
The cytoplasm of some tubular epithelial cells is foamy and show vacuoles	-
(fat storage).	
Diagnosis:	
Severe, diffuse (generalized) and global membranoproliferative	
glomerulonephritis	
Moderate, multifocal plasmacellular interstitial nephritis with intrahisticcytic	4 points
Leishmania	
Etiology: Leishmania sp.	1 point
Leishmania donovani/infantum	-
Leishmania chagasi (South America)	
•	
Associated lesions:	
Skin: Dermatitis, plasmacellular and histiocytic. Alopecia around the eyes.	2 points
Kidney: Chronic renal failure	•
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