

## ECVP/ESVP Summer School in Veterinary Pathology



## Marie Curie Training Courses

Summer School 2005 – Urinary Tract Case 11

Case 11 (804-1482.5)	Points
Species: Dog	
Organ: Kidney	
Description: Most <u>glomeruli (generalized)</u> show <u>segmental to diffuse dilation of vessels</u> that are filled with homogenous to <u>fibrillary eosinophilic material (fibrin)</u> <u>admixed with a modeate amount of neutrophils (beginning thrombosis)</u> . Some vessels are dilated and filled mostly with <u>erythrocytes and fibrin</u> along the vessel wall. Some small vessels are occluded by fibrin thrombi ( <u>disseminated</u> <u>intravascular coagulation</u> ). The <u>proximal tubules</u> mostly show tubular epithelial cells that are sloughing and are rounded. They have <u>hypereosinophilic</u> , sometimes granular cytoplasm and only sometimes <u>pyknotic or condensed nuclei (beginning</u> <u>tubulonephrosis</u> ). In the cytoplasm of some tubulus epithelial cells granular brownish pigment can be seen ( <u>hemosiderin</u> ). Some tubular epithelial cells are activated and sometimes show more than one nucleus ( <u>regeneration</u> ).	
Diagnosis: Severe, generalized, segemental acute ensudative glomerolonephritis with beginning disseminated intravascular coagulation and multifocal, acute tubulonephrosis	
Etiology: toxic, endotoxemia	
Snake bite (Vipera aspis, Vipera berus)	
Enzymes involved: Protease, hyaluronidase, phospholipase, kininogenase Toxins involved: Neurotoxin, hemorrhagin, hemolysin, thrombase	