



ECVP/ESVP Summer School in Veterinary Pathology



Marie Curie Training Courses

Summer School 2005 – Urinary Tract Case 4

Case 4 (H97-1016.1)	Points
<p>Species: Rabbit Organ: Kidney</p> <p>Description: <u>Multifocally (focal-extensive) in the interstitium of the cortex and medulla an inflammatory process consisting out of different amounts of macrophages, lots of plasmacells, few lymphocytes and a moderate amount of heterophils and eosinophils is visible.</u> In these regions as well as in the interstitium on other places an increase of <u>fibrous tissue can be noted (moderate to severe fibrosis).</u> In the inflammatory and fibrotic areas the glomeruli are sometimes shrunken, hyper eosinophilic and <u>adhered to the thickened Bowman's capsule (sclerosis).</u> The tubuli in these areas are sometimes as well shrunken. Only few tubuli are dilated and show hyper eosinophilic, homogenous material in their lumina (<u>slight proteinuria</u>) and some show blueish material in their lumen (<u>slight mineralization</u>). Sometimes also brownish granular material is visible in fibrotic areas and vessel lumina (<u> hemosiderin</u>). Larger vessels are engorged and filled with erythrocytes (<u>hyperemia</u>).</p> <p>Diagnosis: Moderate to severe, multifocal plasmacellular (to granulomatous) interstitial nephritis with moderate interstitial fibrosis and slight proteinuria</p> <p>Etiology: Encephalitozoon cuniculi</p> <p>Associated lesions: Granulomatous encephalitis</p> <p>Special stain: Gram stain (positive), Giemsa, immunohistochemistry</p>	