

Marie Curie Training Courses

Summer School 2005 – Urinary Tract Case 5

Case 5 (503-2154.1)	Points (20)
<p>Species: Porcine Organ: Kidney</p> <p>Description: <u>All glomeruli (generalized) are severely damaged (necrotic) and show large amounts of homogeneous to fibrillar, eosinophilic fluid (fibrin) admixed with erythrocytes in the Bowman's space and between the glomerular tuft/loops.</u> <u>In the Bowman's space, in the mesangium and in the glomerular vessels moderate to large amounts of pyknotic and karyorrhectic neutrophils are visible. Mesangium cells have large nuclei and good visible single nucleoli as well as cells of the Bowman's capsule (activated). The Bowman's capsule is infiltrated with inflammatory cells mostly consisting out of karyorrhectic neutrophils that are as well periglomerular.</u> <u>Periglomerular, in the tubular lumina and only seldom in the interstitium multinucleated giant cells can be seen. In some tubuli a moderate to large amount of karyorrhectic and pyknotic neutrophils are visible. In the cytoplasm of tubular epithelial cells (proximal tubules mostly) eosinophilic droplets of different diameter are found (protein reabsorption).</u> <u>Most tubular lumina are filled with homogenous, eosinophilic material (prominent proteinuria).</u> <u>In the interstitium multifocally some plasmacells, few macrophages and lymphocytes can be seen.</u> <u>Diffusely small vessels are filled with erythrocytes (hyperemia).</u></p>	<p>2 points</p> <p>2 points</p> <p>1 point</p> <p>1 point</p> <p>1 point</p> <p>1 point</p> <p>1 point</p> <p>2 points</p> <p>1 point</p>
<p>Diagnosis: Severe, generalized, global exudative glomerulonephritis with prominent proteinuria and few giant cells Moderate, multifocal, chronic interstitial nephritis</p>	<p>2 points</p> <p>1 point</p>
<p>Etiology: Porcine Circovirus type 2</p>	<p>1 point</p>
<p>Associated lesions: Depletion or hyperplasia of lymphatic tissue, giant cells with intracytoplasmic basophilic (bostryoid) inclusion bodies, interstitial pneumonia, hepatitis</p>	<p>3 points</p>