



# ECVP/ESVP Summer School in Veterinary Pathology



## Marie Curie Training Courses

Summer School 2006 – Toxicological Pathology 92-06866

### 9. K-3 (92-06866) Cat

#### Description

*Many cortical tubules severely dilated and lined by attenuated epithelium*

*Many tubules contain fibrillar basophilic material as well as birefringent crystals*

*Some tubules have swollen epithelium and contain granular eosinophilic material.*

*Multifocal mild cortical interstitial fibrosis and mononuclear inflammatory cell infiltration*

*Medulla has multifocal amphophilic interstitial deposits (amyloid)*

*Medullary interstitial fibrosis*

*Papillary necrosis*

#### Morphologic Diagnosis(es)

*Severe diffuse chronic nephrosis with intralésional calcium oxalate crystals*

*Severe locally extensive papillary necrosis*

#### Possible cause for lesions

*For the nephrosis – ethylene glycol (automotive antifreeze)*

*For the papillary necrosis – NSAIDS, diabetes, arsenic, idiopathic*

**Additional information:** *renal biopsy from an Abyssinian cat*

*Also mild renal amyloidosis with Congo Red stain – mild glomerular and medullary interstitial deposits*