



ECVP/ESVP Summer School in Veterinary Pathology



Marie Curie Training Courses

Summer School 2004 – Reptile Case 9

Slide 9

Tissues of a snake. Kidney, Heart, Liver, Trachea

Morphological diagnoses:

- Nephritis, interstitial, fibrosing, chronic, diffuse, severe
- Tubulonephritis, pyogranulomatous, multifocal, acute to subacute
- Pyogranuloma with urate crystals (tophi), multifocal, acute to subacute (heart, liver, trachea)

Diseases:

- Chronic interstitial nephritis and pyogranulomatous tubulonephritis
- Visceral gout

Key features:

Kidney:

- severe diffuse interstitial fibrosis
- multifocal infiltration with lymphocytes, plasma cells, macrophages and/or heterophils
- tubular atrophy and regeneration
- multifocal hyperplasia of epithelium of Bowman's capsule
- multifocally, tubules containing cell debris, heterophils, macrophages and MNGC, sometimes associated with uric acid spheroids or crystals
- intraepithelial granular golden-brown pigment (supposedly melanin)

Heart, liver, trachea

- multifocal pyogranulomas composed of a core of urate (amphophilic crystalline material) surrounded by heterophiles and macrophages (tophi)