



ECVP/ESVP Summer School in Veterinary Pathology



Marie Curie Training Courses

Summer School 2004 – Mock Exam Case 4

Slide No. 4: Tissue from a TURTLE (red eared terrapin)

1. DESCRIPTION OF HISTOLOGICAL FINDINGS

Ovary. Within and obliterating numerous follicles and focally within the connective tissue are accumulations of large, up to ~100 μm diameter multinucleate giant cells (macrophages) with plentiful granular to hyaline, often vacuolated eosinophilic cytoplasm and up to 16 nuclei per cell. Lesser epithelioid, vacuolated macrophages are also present accompanied by moderate numbers of lymphocytes, plasma cells and lesser heterophils. Extracellular (between inflammatory cells) and within macrophages and giant cells there is pale refractive crystalline material. Unaltered follicles contain bright eosinophilic, homogeneous material often forming droplets (follicular cytoplasm). This material is also seen in the centre of follicles with inflammatory alterations as well as within the perifollicular, interstitial fibrovascular connective tissue. Homogeneous, faintly eosinophilic material distends the interstitium between follicles (interstitial oedema) and there are focal interstitial accumulations of faintly eosinophilic fibrillar material (fibrin). Blood vessels are intensely filled by erythrocytes (hyperaemia). Ovarian mesothelial cells are enlarged and hyperplastic and often cuboidal in shape.

2. MORPHOLOGICAL DIAGNOSIS

Chronic, multifocal, severe granulomatous oophoritis with intralesional multinucleated giant cells, ruptured follicles and mesothelial cell hypertrophy.

3. ETIOLOGY: Ruptured follicles inducing a foreign body reaction

MARKS:

- *descriptive features*

ovary	1
ruptured ova/free oval cytoplasm	2
granulomatous inflammation	2
other inflammatory cells including heterophils	2
crystalline material, free and intrahistiocytic	2
edema	0.5
hyperemia	0.5
fibrin	0.5
description of multinucleated giant cells	2
mesothelial cell hypertrophy	0.5
<i>- diagnosis (n=4):</i>	
granulomatous	1
oophoritis	1
multinucleate giant cells	1
mesothelial hypertrophy	1

- *etiology*

1

style:

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