



ECVP/ESVP Summer School in Veterinary Pathology



Marie Curie Training Courses

Summer School 2008 – Mock Exam Case 7

ECVP MOCK EXAMINATION, JACA, 2008

HISTOPATHOLOGY

Slide n°7: Tissue from a Hedgehog (*Erinaceus europaeus*)

Description:

Lung: Bronchi and bronchioles are filled with parasitic structures. These parasites have a surrounding cuticle with spikes, musculature, a body cavity (coelom), genital organs and a digestive tract (interpreted as adult nematodes). Additionally, lumina of especially bronchioles show a moderate number of approximately 30 x 300 µm large parasitic structures with an inner core of deeply basophilic granules (interpreted as nematode larvae). In the bronchi the mucosal epithelium is moderately hyperplastic and the muscular tunic is moderately hypertrophic. Around bronchi and bronchioles, as well as in the lung interstitium, there is a moderate infiltrate of predominantly lymphocytes and macrophages with fewer plasma cells and heterophils. Additionally, mild alveolar histiocytosis, alveolar emphysema and edema, and congestion of blood vessels can be seen.

Morphologic diagnosis/diagnoses:

Lung, pneumonia, bronchointerstitial, lympho-histiocytic, chronic, multifocal, moderate with intrabronchial adult nematodes and nematode larvae morphologically consistent with *Crenosoma* sp.

Name the agent:

Crenosoma striatum (1pt) (DD: *Capillaria* spp. (*C. aerophila* or *Eucoleus aerophilus*, *C. tenuis*))

Tissue: lung	1
Bronchi and bronchioli filled with parasites (nematodes)	1
Adult (1) nematodes with cuticle (0,5), small spikes (0,5), musculature (0,5), body cavity (coelom) (0,5), genital organs (0,5), digestive tract (0,5)	4
Nematode larvae	1
Bronchial epithelial hyperplasia	1
Hypertrophy of bronchial smooth muscle	1
Peribronchial infiltration	1
Interstitial infiltration	1
Lymphocytes, macrophages, plasma cells, heterophils	1
Alveolar histiocytosis	1
MD: pneumonia	1
bronchointerstitial, lympho-histiocytic	1
intrabronchial adult nematodes	1
nematode larvae	1
Etiology: <i>Crenosoma striatum</i>	1
Style	2
Total	20