



ECVP/ESVP Summer School in Veterinary Pathology



Marie Curie Training Courses

Summer School 2004 – CNS 12-03

SLIDE No. 12-03: Tissue from a DOG

Cerebellum; meninges are massively packed with large numbers of 20-50 µm in diameter, pale basophilic organisms with a thick cell wall and a large translucent capsule, consistent with yeast organisms (*Cryptococcus neoformans*). There is moderate meningeal infiltration of macrophages (epithelioid and foamy macrophages) and lower numbers of lymphocytes, plasma cells and occasional neutrophils.

Multifocally, variable sized nests of yeasts are present in the adjacent parenchyma/neuropil, associated with a mild infiltration of inflammatory cells as described above. Larger, expanding fungal accumulations compress the adjacent cerebellar parenchyma.

MORPHOLOGICAL DIAGNOSIS/DIAGNOSES:

Cerebellum; granulomatous meningoencephalitis, diffuse, subacute, moderate, with myriads of intralosomal yeasts (*Cryptococcus neoformans*)

ETIOLOGY:

Cryptococcus neoformans

Scoring System

Slide description:

Design	2 points
Tissue (cerebellum, meninges)	1 point

Descriptive features:

Meningeal involvement	1 point
Description of organism	3 point
Macrophages, various forms	2 points
Lymphocytes, plasma cells, neutrophils	1 point
Organisms in brain parenchyma	2 point
Same inflammatory cells as described above	2 point
Compression of adjacent brain tissue	1 point

Total: 15 points

MORPHOLOGICAL DIAGNOSIS/DIAGNOSES:

3 points

ETIOLOGY:

2 points