ECVP/ESVP Summer School in Veterinary Pathology

Marie Curie Training Courses

Summer School 2004 – CNS 3704-96

SLIDE No. 3704-96: Tissue from a RABBIT

DESCRIPTION OF HISTOLOGIC FINDINGS

Cerebral cortex, hippocampus and brain stem; meningeal and cerebellar vessels show mild to moderate multifocal perivascular infiltration of lymphocytes, plasma cells and macrophages. There are multiple randomly distributed variable sized focal accumulations of macrophages, lymphocytes, plasma cells and activated microglial cells, interpreted as granulomas. Larger granulomas show central cellular debris/necrosis.

Adjacent to granulomas there is mild neuronal degeneration and necrosis, characterized by shrunken, hypereosinophilic neurons with pyknotic nuclei and occasional neuronophagia. Additionally, mild focal astrogliosis and microgliosis is present. Endothelial cells of multiple capillaries are enlarged, cuboidal with oval nuclei, interpreted as endothelial activation.

Morphologic diagnoses:

Brain; lymphoplasma-histiocytic to granulomatous meningoencephalitis, multifocal, moderate, subacute to chronic

Etiology:

Encephalitozoon cuniculi

Scoring System

Slide description:	
Design	2 points
Tissue (cerebral cortex, brain stem and hippocampus)	1 point
Descriptive features:	
Perivascular meningeal and neuropil infiltates	2 point
Lymphocytes, plasma cells, macrophages	2 point
Granulomas (not in all sections)	2 point
Lymphocytes, plasma cells, macrophages	2 point
Gliosis	1 point
Neuronophagia?	1 points
Endothelia cell hypertrophy	1 point
	Total: 15 points
MORPHOLOGICAL DIAGNOSIS/DIAGNOSES:	**4 points**
ETIOLOGY:	**1 point**