

ECVP/ESVP Summer School in Veterinary Pathology

Summer School 2012 – Mock Exam

Slide nº 3. Tissue from a dog

Description:

Brain (cerebellum and brain stem). Around vessels in the white matter, there is moderate mixed inflammatory infiltrate consisting of lymphocytes, plasma cells and large round cells with a round to bean-shaped nucleus and homogenous, slightly granular cytoplasm (interpreted as macrophages/epithelioid cells). The perivascular infiltrate sometimes extends into the adjacent brain parenchyma. Myelin sheaths in the white matter are diffusely distended (edema, spongiosis). The meninges are mildly and diffusely infiltrated by small numbers of lymphocytes, plasma cells and histiocytes and the infiltrate extends along Virchow-robin spaces. Nodular gliosis is noted. The larger vessels in the cortex are filled with erythrocytes (hyperemia). Some vessels are lined by plump endothelial cells (endothelial cell hypertrophy). Mild occasional infiltration of lymphocytes and rarely macrophages are observed in the choroid plexus.

Morphologic diagnosis/es:

Multifocal chronic severe granulomatous meningoencephalitis

Design	2
Tissue : Brain	1
Descriptive features	
Location: White matter (1) and gray matter –granular layer of cerebellum (0,5) and meninges (1)	2,5
Multifocal	1
Perivascular or concentric (or cuffing)	1
Macrophagic/epithelioid cells	1
Large in size (0,5), abundant eosinophilic cytoplasm (0,5) and eccentric oval nuclei (0,5)	1,5
Lymphocytes	1
Rare multinucleated giant cells	0,5
Endothelial hypertrophy	1
Nodular gliosis	1
Neuropil edema (spongiosis)	1
Scattered neuronal chromatolysis in brain stem nuclei	0,5
Meningeal infiltrate extends along Virchow-robin space	1
	4
Morphologic diagnosis/es:	
Multifocal chronic severe (1) granulomatous (1) meningoencephalitis (2)	
Total	20