



ECVP/ESVP Summer School in Veterinary Pathology



Marie Curie Training Courses

Summer School 2004 – CNS Case 3

Case 3. nr T3 (N-523/03) Tissue from a dog

Description:

Cross section of the brain through frontal lobe.

Neoplastic cell proliferation with a characteristic honeycomb or fried egg appearance (perinuclear halos), Uniformly small, round chromatin-rich nuclei with clear, poorly stained cytoplasm and sharp cellular boundaries. Rich capillary vasculature; perivascular and multifocal haemorrhages. Focal areas with accumulation of pale, gray-blue mucinous material (mucinous degeneration) between neoplastic cells. At the periphery of the tumour neoplastic cells are arranged in chains (interfascicular

oligodendrocytes). Invasion of normal parenchyma producing compressive lesions: spongiosis, neuronal death, satellitosis of neurons and gliosis. Perivascular cuffing by round cells at the areas where gray matter is infiltrated.

Morphological diagnosis: Oligodendroglioma.