



ECVP/ESVP Summer School in Veterinary Pathology



Marie Curie Training Courses

Summer School 2008 – CNS Case 17

Case 17) S 1566/06: Tissue from a SHEEP

Cerebrum: Focally extensive in the periventricular white matter, there is a massive necrosis with loss of eosinophilia (demyelination), infiltration of large numbers of macrophages, gitter cells and some binucleated cells. Perivascularly, there is an infiltration with lymphocytes and plasma cells. Additionally, necrotic areas show moderate astrogliosis and microgliosis, with occasional gemistocytes. There is prominent periaxonal vacuolization associated with hypereosinophilic, swollen axons (spheroids). Endothelial cells are enlarged, cuboidal and with prominent nuclei (endothelial activation). Additionally, the stroma of the choroid plexus is mildly infiltrated by lymphocytes, plasma cells and macrophages.

Morphologic diagnosis:

Cerebrum: Leukoencephalitis, focally extensive, demyelinating to necrotizing, severe, chronic

Etiology:

Maedi/Visna virus/Ovine lentivirus