



ECVP/ESVP Summer School in Veterinary Pathology



Marie Curie Training Courses

Summer School 2008 – CNS Case 2

Case 2) 405/95:

Tissue from a DOG

Cerebrum: Throughout the cerebral cortex, neurons show severe distension and contain abundant, pale eosinophilic, slightly granular cytoplasm. Frequently, the nucleus is located eccentrically and surrounded by basophilic, granular structures (remnants of Nissl's substance). Occasionally, nuclear degeneration (pyknosis, karyorrhexis) and cytoplasmic vacuolation are seen.

Morphologic diagnosis:

Cerebrum: Neuronal storage, diffuse, severe, with mild neuronal degeneration

Name the disease:

GM1 gangliosidosis (acid -galactosidase deficiency) or other storage diseases