



ECVP/ESVP Summer School in Veterinary Pathology



Marie Curie Training Courses

Summer School 2006 – Muscle Case 3

2 and 3 -Tissue from an 8-month-old dog

2- *transverse frozen section - HES*

3- *transverse frozen section ATPase pH 4,35*

Skeletal muscle

Peripheral eosinophilic fibers: artefact

Mild fat infiltration of the perimysium

Moderate anisocytosis: randomly distributed atrophic angular fibers. Hypertrophic round fibers

Near the fascia, Bundles of small round fibers (normal)

Small-group atrophy (rounded cells grouped by 2 or 3) scattered in the muscle: split myofibres

Very rare internal nuclei (1 to 2 per field *250)

In some bundles, mild mononuclear infiltration (lymphocytic and macrophagic cells)

ATPase: the small atrophic angulated fibers are mainly type 2, randomly distributed

The split cells are mainly type 1 fibers

Diagnosis: Moderate lesions. No necrosis or inflammatory process. Scattered small group atrophy “Neurogenic” pattern

Name of the disease: Labrador Retriever autosomic myopathy