



ECVP/ESVP Summer School in Veterinary Pathology



Marie Curie Training Courses

Summer School 2006 – Muscle Case 16

16- Tissue from a cow

Paraffin wax embedded – HES –

Connective and adipose tissues

The sample is a part of a tumor characterized by a multinodular arrangement, each nodule surrounded by a thick fibrous tissue. The septa (stromal reaction) are infiltrated by lymphocytic cells.

Some nodules are necrosed. The others are made of tumoral cells, which exhibit various aspects:

Cells are large, pleomorphic, with various shapes (round, spindled, cuboidal) with eosinophilic granular, often-vacuolated cytoplasms and with one or more very big nuclei (oval, central, coarsely stippled). Some spindle tumoral cells exhibit a fine transversal striation in their cytoplasm.

The variations in cells are wide: Anisocytosis, anisokaryosis, karyomegaly, multinucleate cells (2 or 3 nuclei), acidophilic large nucleolus.

Mitoses are rare (less than one per field * 400)

Diagnosis: rhabdomyosarcoma