



ECVP/ESVP Summer School in Veterinary Pathology



Marie Curie Training Courses

Summer School 2006 – Muscle Case 11

11- Tissue from a fish (Turbot)

Paraffin wax embedded – Gomori's trichrome

Skeletal muscle and skin

Mild generalized anisocytosis (normal fish muscle aspect)

The myofibers at the periphery of the sample appear acidophilic (red) artefact.

Rare hyalinized hypertrophied (x2) eosinophilic fibers: hypercontraction.

Acidophilic elements rounded or triangular shaped, red with a dark pole, diameter: 2 or 3 micrometers are observed, free in the connective tissue or grouped, surrounded by a marked / severe fibrous capsule: protozoalk elements.

When they stay free in the interstitium, they are grouped (from 10 to several hundred elements), surrounded by a slight edematous connective tissue, sometimes associated with a few mononuclear inflammatory cells. When they are encapsulated, the capsule is approximately 20 micrometers thick, containing parasitic elements within, and surrounded by free parasitic elements.

Diagnosis: multifocal moderate parasitic mononucleated myositis. Microsporidiosis