



ECVP/ESVP Summer School in Veterinary Pathology



Marie Curie Training Courses

Summer School 2005 – Fish Fi227/98

Slide No. Fi227/98: Tissue from an ornamental fish

Description of histological findings

Skin, multifocally in the dermis fibroblasts are severely hypertrophic, round to oval, up to 0.5 mm in diameter, with an appr. 3-4 μm thick basophilic hyaline cell membrane, eosinophilic cytoplasm, a round to oval centrally located basophilic granulated nucleus and up to 15 large (up to 10 μm) intracytoplasmic basophilic polymorphic inclusion bodies. These hypertrophic fibroblasts lie in groups of up to 50 cells. In the surrounding tissue there is a mild infiltration with low numbers of macrophages, lymphocytes and plasma cells. There is a moderate hyperplasia of fibroblasts and angiogenesis arranged in a loose structure due to edema.

Morphological diagnoses

Skin, fibroblast hypertrophy with intracytoplasmic inclusion bodies, multifocal, severe

Skin, lymphohistiocytic dermatitis, multifocal, chronic, mild

Etiological diagnosis

Iridoviral dermatitis (lymphocystis-virus)

Scoring system	Points
<u>General:</u>	
Design	2
Tissue	1
<u>Descriptive features:</u>	
Hypertrophic fibroblasts	2
Description of cells	3
Intracytoplasmic inclusion bodies	2
Infiltration with macrophages, lymphocytes and plasma cells	2
Fibroblast hyperplasia and angiogenesis	1
Edema	1
<u>Morphological Diagnoses:</u>	4
<u>Etiological diagnosis:</u>	2