



ECVP/ESVP Summer School in Veterinary Pathology



Marie Curie Training Courses

Summer School 2005 – Fish F01/2354

Slide No. F01/2354: Tissue from a grayling

Description of histological findings

Skin, extending from the pigment cell layer into the dermis there is a 2 cm in diameter, moderately cellular, poorly demarcated, non-encapsulated, infiltrative growing, neoplastic mass containing few fibrovascular stroma. The mainly fusiform neoplastic cells are arranged in bundles. They have indistinct cell borders, a moderate amount of cytoplasm containing abundant olive to green crystalline pigment. Their nuclei are round to ovoid with one to two nucleoli. Anisocytosis and anisokaryosis are low. Mitotic rate is low (<1/HPF). The epidermis is replaced by cell and nuclear debris and there are intralésional elongated basophilic organisms with a deep basophilic 2 µm thick cell membrane, interpreted as fungal hyphae typical for *Saprolegnia* sp.. In the dermis adjacent to the tumor is a moderate edema.

Morphological diagnoses

Skin, iridophoroma

Scoring system	Points
<u>General:</u>	
Design	2
Tissue	1
<u>Descriptive features:</u>	
Origin	1
Demarcation	0.5
Encapsulation	0.5
Infiltrative growing	0.5
Size	0.5
Cellularity	0.5
Stroma	1
Fusiform cells	1
Arranged in bundles	1
Cell borders	0.5
Pigment in cytoplasm	1
Nucleus, nucleoli	1
Mitotic rate	1
Epidermal ulceration	1
Fungal hyphae	1
Dermal edema	1
<u>Morphological Diagnoses:</u>	4