

# ECVP/ESVP Summer School in Veterinary Pathology

## Summer School 2010 – Mock Exam Case 2

### Tissue from a Rabbit

#### Haired skin

There is a focally extensive lesion of the epidermis and infundibular hair follicular epithelium characterized by:

- diffuse, marked **orthokeratotic hyperkeratosis**
- prominent keratohyalin granules in the acanthocytes of the stratum granulosum (**hypergranulosis**)
- marked and irregular **acanthosis**
- marked intracellular edema (**vacuolation**)
- Round to irregular, eosinophilic, intracytoplasmic 5-15  $\mu$ m diameter viral inclusions consistent with **poxviral inclusion bodies**

The superficial and mid dermis is **edematous, congested / hyperemic** and infiltrated by **lymphocytes**, plasma cells, and **neutrophils**. Within the superficial dermis are hypertrophic / **hyperplastic fibroblasts** and moderate amounts of pale, basophilic, fibrillar material (**myxoid matrix**). Hair shafts contain numerous small, 2-4  $\mu$ m diameter, round, basophilic microorganisms (**fungal arthrospores**).

#### Morphologic diagnosis / diagnoses

Focally extensive, **hyperplastic** and hyperkeratotic, lymphoplasmacytic **dermatitis** with intracytoplasmic **poxviral inclusion bodies**.  
Hair shaft infection by **fungal arthrospores**.

#### Etiology / Etiologies

Myxoma virus (a Leporipoxvirus)  
*Trichophyton* spp.

#### Marks

Skin .....	1
Epidermis affected .....	0.5
Hair follicles affected.....	0.5
Orthokeratotic hyperkeratosis .....	1
Hypergranulosis .....	0.5
Acanthosis.....	1
Vacuolation .....	1
Viral inclusion bodies .....	1
size .....	0.5
eosinophilic .....	0.5



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intracytoplasmic .....	1
Edema, congestion .....	0.5
Lymphocytes, neutrophils.....	1
Fungal spores + description (size and basophilia) .....	2
Hypertrophic / hyperplastic fibroblasts .....	1
Myxoid material .....	1
Morphologic diagnoses .....	3
Etiologies.....	2
Style .....	1