



ECVP/ESVP Summer School in Veterinary Pathology



Marie Curie Training Courses

Summer School 2007 – Avian Q3

Slide Q3: Tissue from a Turkey

Tissue: Larynx

Morphological description:

Multifocal to coalescent, severe, papillomatous proliferation of the respiratory epithelium.

Hyperplasia and squamous metaplasia of the affected epithelium with multifocal superficial necrosis and presence of fibrinonecrotic scabs. Presence of few intraepithelial cavities filled by degenerative heterophils;

Remaining non hyperplastic and metaplastic respiratory epithelium severely necrotized with sub-total elimination.

Presence of an abundant fibrinonecrotic and suppurative exudate in the larynx lumen with numerous degenerative heterophils, eosinophilic fibrinous deposits and many bacterial foci.

Severe diffuse inflammatory infiltration of the lamina propria constituted mainly by mononuclear cells (lymphocytes and plasma cells) and few heterophils.

In metaplastic squamous epithelium, mainly in superficial areas, many cells appear ballooned with clear vacuolated nucleus and pale unstained cytoplasm. Some ballooning cells contain voluminous round acidophilic irregularly stained intracytoplasmic viral inclusion bodies identified as viral inclusion bodies of Poxvirus type (Bollinger's bodies).

Morphological diagnosis/diagnoses:

Sub-acute, hyperplastic, and metaplastic, fibrinonecrotic and suppurative Laryngitis associated with epithelial viral intracytoplasmic inclusion bodies of Poxvirus type (Bollinger's bodies).

Name the disease:

Avian Poxvirosis (Avian or Fowl Pox)

Key words and marks:

Tissue	1
Design	2
Description:	
Multifocal severe papillomatous proliferation of the respiratory epithelium	1
Hyperplasia and squamous metaplasia	2
Severe necrosis of the surface of affected epithelium with scabs	1
Non affected respiratory epithelium severely necrotized	1
Abundant fibrinonecrotic/suppurative exudate (description)	1
Bacterial colonies	1
Severe diffuse inflammatory infiltration of the lamina propria (description)	1
Degenerative changes in squamous cells	1
Inclusion bodies: description	2
Morphological diagnosis	4
Name the disease	1