

ECVP/ESVP Summer School in Veterinary Pathology

Summer School 2012 – Mock Exam

Slide n° 9. Tissue from a mouse

Description

Lung. The alveolar spaces are almost diffusely filled by large amounts of eosinophilic, granular material admixed with small numbers of macrophages and rare neutrophils. Some of the macrophages have swollen, foamy cytoplasm. There is diffuse alveolar septal thickening by a moderate infiltrate of mononuclear cells. The granular material contains faintly visible, <1 micron diameter, round, punctate basophilic structures surrounded by a thin rim of clear cytoplasm (fungal organisms). There is also frequent cuffing of most blood vessels by small to moderate numbers of lymphocytes.

Morphological diagnosis/es:

Diffuse moderate chronic interstitial pneumonia with intra-alveolar fungi

Etiological diagnosis:

Pneumocystic/Pneumocystis pneumonia (Pulmonary pneumocytosis also accepted)

Staining method: GMS or PAS

Design

2

Tissue : lung

1

Descriptive features:

Alveolar spaces (1) diffusely filled with foamy eosinophilic material (1)

2

Mixed with macrophages (1) and neutrophils (1)

2

Macrophages with foamy cytoplasm

2

Intra and extracellular structures

1

4-8 micron

0,5

Round

0,5

Basophilic bodies or nuclei

0,5

Clear cytoplasm

0,5

Interpreted as fungi

1

Diffuse septal thickening due to leukocyte infiltration

1

Perivascular lymphocytic cuffing

1

Morphologic diagnosis/es:

Diffuse moderate chronic (0,5) interstitial (0,5) pneumonia (1) with intra-alveolar fungi (1)

3

1

Etiological diagnosis: Pneumocystic/Pneumocystis pneumonia
(Pulmonary pneumocytosis also accepted)

Staining method: GMS or PAS

1

Total

20