



ECVP/ESVP Summer School in Veterinary Pathology



Marie Curie Training Courses

Summer School 2008 – Mock Exam Case 8

ECVP MOCK EXAMINATION, JACA, 2008

HISTOPATHOLOGY

Slide n°8: tissue from a Bovine

Description:

Mammary gland: Multifocally, over large areas, there is loss of normal architecture with tissue cavitation and cellular/ nuclear debris (necrosis). Predominantly at the borders of these necrotic areas, a moderate number of fungal organisms can be found. Fungal hyphae are 10-15 µm in diameter and non-septate with thin non-parallel walls and irregular branching. The necrotic areas are circumscribed by a moderate infiltrate of macrophages, neutrophils (sometimes degenerate) and lymphocytes. Sometimes foamy macrophages can be found. Additionally, in the interstitium there is proliferation of capillaries with collagen-rich connective tissue (granulation tissue).

Morphologic diagnosis/diagnoses:

Mammary gland: mastitis, necrotizing to granulomatous, multifocal, chronic, severe with intralesional fungal hyphae morphologically consistent with *Mucor* sp. (other spp.)

Tissue: mammary gland	1
Necrosis + description of necrosis	1 + 1
Fungal hyphae	1
Non-septated	1
Thin/non-parallel wall	1
10-15 µm in diameter	1
Irregularly branching	1
Infiltration of macrophages	1
Neutrophils (sometimes degenerated)	1
Granulation tissue	1
Capillaries	1
Collagen-rich connective tissue	1
Foamy macrophages	1
MD: mastitis	1
necrotizing to granulomatous, multifocal, chronic, severe	1
intralesional fungal hyphae	1
<i>Mucor</i> sp. (other spp.)	1
Style	2
Total	20