



ECVP/ESVP Summer School in Veterinary Pathology



Marie Curie Training Courses

Summer School 2006 – Toxicological Pathology 01-131

11. L-3. (01-131) Cow

Description (14)

Edema - alveolar, interstitial, interlobular, pleural – eosinophilic homogenous material - (proteinaceous edema)-(4) and dilated lymphatics (1)

-Hemorrhage (1)

-fibrin (1)

-Eosinophils (2)

Intraalveolar macrophages (1)

Early hyaline membranes (1)

Congestion (1)

Multifocally airways constricted – infolded mucosa, luminal occlusion (2)

Morphologic diagnosis(es) (4)

Severe diffuse peracute pulmonary edema with eosinophil infiltrates and multifocal bronchoconstriction

Possible mechanism(s) and etiology(es). (2)

Anaphylaxis, type I hypersensitivity reaction

DD: peracute interstitial pneumonia

Additional information: *3mth Holstein cow. 2nd vaccination for IBR, parainfluenza, BRSV at 11.30 am and respiratory distress 30 min later. Treated twice but died at 2.30 pm (3 hrs).*

Gross – severe pulmonary edema – lungs wet, heavy, did not collapse, edema of interlobular septa, oozed fluid on cut section. Pleural cavity contained fluid that clotted quickly.