

Colorado State University
College of Veterinary Medicine and Biomedical Sciences
Veterinary Diagnostic Laboratories
300 West Drake Road
Fort Collins, CO 80523-1644
Phone 970-297-1281 Fax 970-297-0320

Colorado
State
University

Day - Pathologist

DL#: 089-33553

Date: 11/30/2008

Vet/Clinic: Dr. John McGee, Indian Peaks Veterinary Hospital PC, Boulder, CO
Owner: Peter Klein/Esther Cohen, 1200 Lonestar Rd., CO 80540
Animal ID: Cantik Date Specimen Taken: 11-29-08
Species: Canine Breed: GSD Age: 7mos Sex: F

History: Found dead one-hour after let out the door.

DIAGNOSIS: Lungs: Severe, diffuse, acute pulmonary edema and hemorrhage.

REMARKS: The histologic lesions are compatible with a toxic etiology. Further investigation of the clinical and environmental history may yield target compounds for further investigation.

*90% 10% is the cause of edema & we don't know why
cause of edema & we don't know why
cause of edema & we don't know why*

GROSS NECROPSY: Presented for necropsy is a female, approximately 7-months old, white German Shepherd. There is mild post-mortem autolysis. The animal is of good flesh. No external abnormalities are noted. Bilaterally, the lungs are diffusely reddened with regionally extensive areas of dark discoloration (hemorrhage). The texture is rubbery and on cut section, the lungs exude copious amounts of serosanguinous fluid. There is serocellular froth which fills the airways extending up to the level of the larynx. The heart is properly formed and within normal limits. The right ventricular to left ventricular freewall ratio is approximately 1:3.

The remaining structures of the thoracic cavity are properly formed and within normal limits.

The organs and structures of the abdominal cavity are properly formed and within normal limits. Bilaterally, the coxofemoral, femoral tibial, and humeral radial joints are within normal limits. The brain is grossly normal.

HISTOPATHOLOGY: 1/Three sections of lung – There is diffuse marked congestion of alveolar capillaries and other vessels throughout the sections. There are regionally extensive areas in which alveolar spaces are filled by abundant red blood cells with fewer histiocytes. Frequently, there is adventitial expansion by numerous red blood cells within small to medium-sized vessels. Additionally present within some alveolar are homogenous to finely-fibrillar eosinophilic material (edema). The epithelium of the larger airways and alveoli appear normal. No significant inflammation is identified within these sections.

2/Left ventricular papillary muscle – No significant lesions (NSL).

Right ventricular freewall – NSL.

Spleen – NSL.

Liver – There is diffuse moderate congestion of hepatic sinusoids and other small to medium-sized vessels within this section.

3/Kidney – NSL.

Lung, 2nd section – This section is markedly similar to those previously described in Slide 1.

Liver – This section is markedly similar to those previously described in Slide 2.

4/Thymus – There are multifocal, extensive areas of interstitial hemorrhage. The thymus is well-populated by small lymphocytes.

Two sections of adrenal – There are regionally extensive areas of congestion which appear to be centered on the corticomedullary junctions.

Stomach – NSL.

Jejunum – NSL.

Pancreas – NSL.

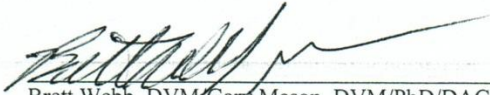
5/Urinary bladder – NSL.

Multiple sections of cecum, colon – NSL.

6/Cerebellum and brainstem at the level of the cerebellar roof nuclei – NSL.

Cerebrum and hippocampus -- NSL.

TOXICOLOGY: Anticoagulant screen – No compounds detected.



Brett Webb, DVM/Gary Mason, DVM/PhD/DACVP
Typed: 12-11-08 ml/12-22-08 ml

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DL Accession: 089-33553
Sample Received: 11/30/2008
Diagnostician: GLM/BW

VET: Dr. John McGee 3060 Sterling Circle Boulder CO
OWNER: Judy Huston PO Box 2068 Howell MI
SPECIES: CAN
BREED: WHGSD

	Results	Comment Code
ANIMAL:	CANTIK	
LIV Anticoagulant Screen Please See Below		12/17/2008
COMMENT CODE	COMMENT NARRATIVE	

SPECIAL NOTES

- 1 Anticoagulant Screen: Brodifacoum, Bromadiolone, Chlorophacinone, Coumarin, Diphacinone, Pindone and Warfarin were not detected.
- 2 FAXED TOXICOLOGY FINAL RESULTS: 81,3039380589 12/18/2008 by cbedwell
- 3 EMAILED TOXICOLOGY FINAL RESULTS: gary.l.mason@colostate.edu 12/18/2008 by cbedwell
- 4 RESULTS FAXED BY OFFICE: 81,3039380589 12/19/2008 by kedwards

END OF REPORT