

REPORT OF LABORATORY EXAMINATION

Client:	White Shepherd Genetics- (295483) Project - Attn: Judy Huston PO Box 404 Howell, MI 48844	Owner:	Tittl, Julie
Rcvd Date:	1/26/2012 1:01:00 PM	Animal:	ZEPPLIN
Admitted By:	Osmun, Dr.	Species:	Canine
Ordered By:	N/A	Age:	8 years
Encounter:	01302779	Tag/Reg ID:	
CR#:	AP	Other ID:	
		MRN:	
		Breed:	German Shepherd
		Gender:	Male

S u r g i c a l P a t h o l o g y F i n a l R e p o r t

Accession Number:	Received Date/Time:	Verified Date/Time:	Pathologist:
SP-12-0000699	1/26/2012 1:02:00 PM	2/8/2012 4:15:14 PM	Patterson, Jon S.

History

An 8-year-old white German shepherd was euthanized on 1/20/12, after being presented to the veterinarian because of severe dyspnea. Hemopericardium was determined during diagnostic work-up. A necropsy was done by the referring veterinarian, and tissues were collected for histopathologic examination. At necropsy, a mass in the right auricle of the heart was noted.

Microscopic Description

Sections of right auricle, liver, spleen, small intestine, kidney, lung, lymph node, pancreas, and gall bladder were examined. Arising from the epicardial surface of the right auricle, there was a large, multilobular mass composed of thin to wide trabeculae which surrounded large, round to irregularly shaped, blood-filled spaces. The trabeculae were composed of bands and sheets of spindle-shaped cells with oval, hypochromatic nuclei and a small to moderate amount of eosinophilic, indistinctly bordered cytoplasm. There was moderate variation in cellular and nuclear size and shape. The largest nuclei had a vesicular chromatin pattern, and contained single prominent nucleoli. Mitotic figures were rare (1-2/10 HPF). The large, blood-filled spaces were lined by a single layer of the neoplastic spindle-shaped cells in some areas, and the trabeculae contained numerous small clefts lined by similar cells. Some clefts contained blood, while others did not. Bands of neoplastic cells extended along the epicardium and penetrated the superficial myocardium in a few areas. The trabeculae within the mass and the epicardial connective tissue contained scattered hemosiderin-laden macrophages. The myocardium also contained scattered lymphocytes, plasma cells, and macrophages, with a few neutrophils, and there was locally extensive myocardial degeneration, characterized by fragmented or vacuolated myofibers. In a section of liver, centrilobular hepatocytes were markedly attenuated, and many contained intracytoplasmic vacuoles. Centrilobular sinusoids were markedly distended with blood cells. In a section of ileum, the lamina propria contained slightly increased numbers of plasma cells and lymphocytes, and a Peyer's patch was prominent because of lymphoid hyperplasia. There was moderate hemosiderosis in the spleen. A lymph node contained dilated medullary sinuses with scattered macrophages. There was mild anthracosis in the lung. All other examined tissues were histologically normal.

L = Low Result; H = High Result; @ = Critical Result; ^ = Corrected Result; * = Interpretive Data; # = Result Footnote

Admitted By: Osmun, Dr.
Encounter: 01302779

Species: Canine
Animal: ZEPPLIN

MRN:
Owner: Tittl, Julie

S u r g i c a l P a t h o l o g y F i n a l R e p o r t

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Pathologist:
Patterson, Jon S.

Diagnosis(es)

right auricle of the heart: hemangiosarcoma

liver: severe diffuse centrilobular congestion and hepatocellular degeneration

spleen: moderate hemosiderosis

ileum: mild lymphoplasmacytic enteritis

Comment:

The most significant finding was hemangiosarcoma of the right auricle of the heart. Rupture of this mass most likely led to hemopericardium and dyspnea.

Jon S. Patterson, DVM, PhD, Dipl ACVP
Anatomic Pathologist

Jon S. Patterson, DVM, PhD, DACVP

(Electronically signed by) JSP

Verified: 02.08.2012 16:15

JSP /JSP