



PATIENT PRESENTING CLINICAL SIGNS

Sawyer Fulford 1 week history of lethargy, exercise intolerance, decreased appetite. Palpable fluid wave in abdomen. Increased respiratory rate and effort after walking to exam room. Abdominal and thoracic fluid visualized on ultrasound. Sampled abdominal fluid is high protein transudate (TP 4.5 g/dL).

SPECIES

Canine

Abnormal PE/Chem/CBC/UA Results: WBC $20.1 \times 10^9/L$ Neut $16.36 \times 10^9/L$ BUN 26 Phos 6.7 Creat 1.5 Gluc 121 K 5.9 Glob 2.1 Heart Rate and Respiratory Rates HR 86, RR 36 Blood Pressure Measurements RTL with 6.5cm cuff: 154/95 (114), 172/90 (115). RHF with 5.5cm cuff: 161/90 (122), 156/58 (101)

BREED

Husky

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

SEX

Intact Male

AGE

8 Years

WEIGHT

91 Pounds

INTERPRETED BY

Eric Lindquist, DMV

DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Sara Hansen

HOSPITAL NAME

Ark Animal Hospital

REFERRING VET

Dr. Lewis

INVOICE

41194

DATE

9/9/22

CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (Boon method)	LA/AO (Heart Base; Swe)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
PATIENT			1.1	1.4	25	60	NM
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT (kg)	LA 2D short axis Base view (cm)	LVIDd Avg; 2D and m-mode short axis (cm)	LVIDs Avg; 2D and m-mode short axis (cm)
NORMAL PARAMETER	50-100	0.7-1.7	0.7-1.6	BELOW	BELOW	BELOW	BELOW
PATIENT	100	--	0.9		3.0	2.5	

Cardiac Presentation

The cardiac presentation revealed moderate to severe pericardial effusion and tamponade effect with collapse of the right auricle. Trivial mitral insufficiency noted, not clinically significant. Arrhythmogenic activity noted. Heterogeneous right auricular and right ventricular free wall nodules noted, measuring up to 1.5 cm. No overt masses noted. However, this is concerning for underlying hemangiosarcoma given the position. Hepatic veins were dilated.

ULTRASONOGRAPHIC FINDINGS

- Pericardial effusion with tamponade effect and nodular right ventricular and right auricular free wall – concern for underlying neoplasia, yet cannot be definitively diagnosed.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Pericardiocentesis and management for idiopathic pericardial effusion or other cause of pericardial effusion recommended. Abdominal sonogram warranted to assess for concurrent disease such as splenic or hepatic masses, which would further support hemangiosarcoma as a potential. Guarded prognosis.



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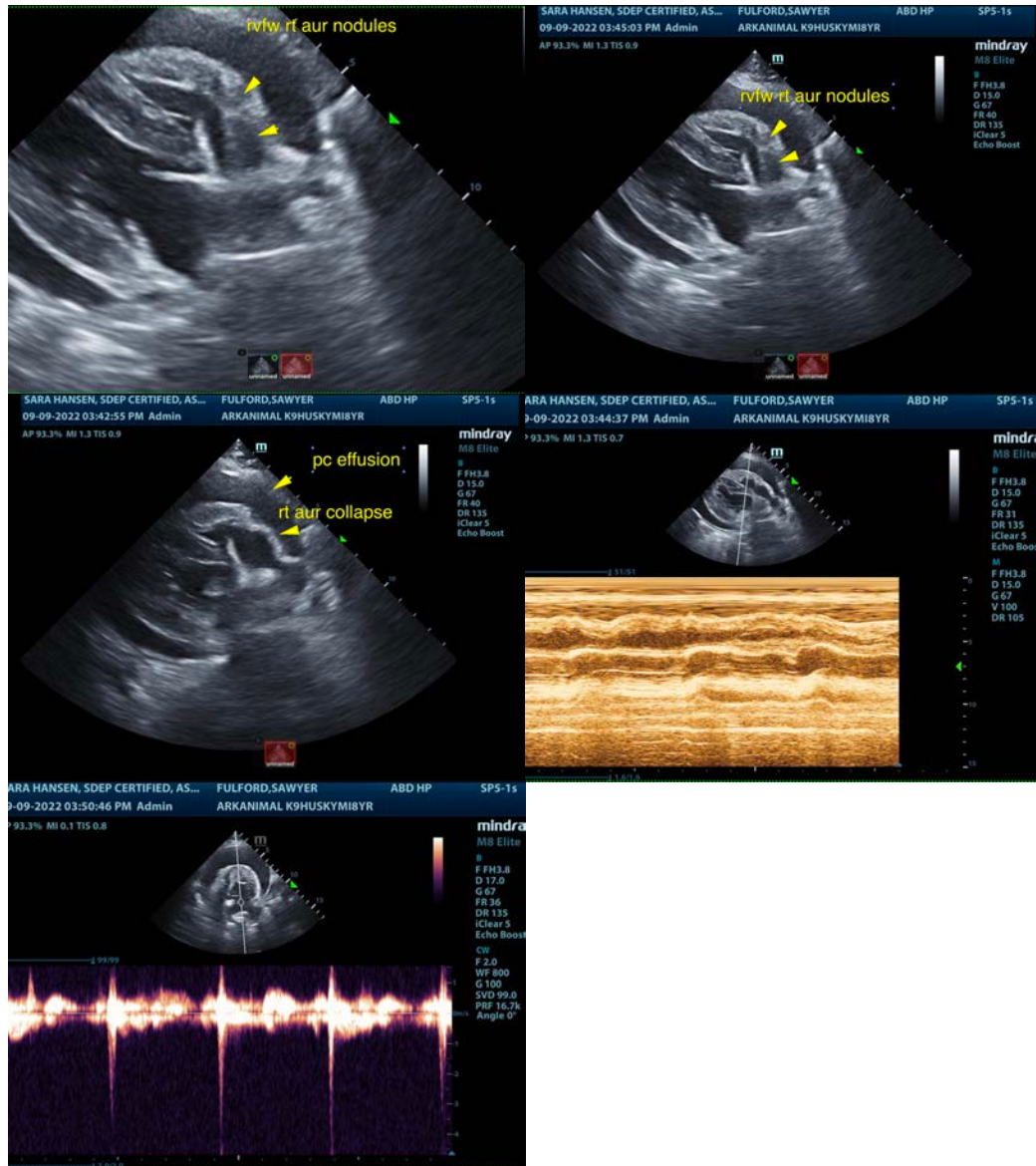
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance please contact me.

Eric Lindquist, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com

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