



PATIENT PRESENTING CLINICAL SIGNS

Maggie Ham History: Not eating or drinking, lethargic, tachypneic.

SPECIES Abnormal PE/Chem/CBC/UA Results: RADS: moderate to large pleural effusion, cannot visualize the heart clearly. No BW yet. US guided thoracocentesis: blood, running Hct on it.

Canine *Rapid echocardiogram was performed owing to the precarious nature of the presentation.

BREED ULTRASONOGRAPHIC EXAMINATION OF THE HEART

Labrador Retriever

SEX

Spayed Female

AGE

10 Years

WEIGHT

97 Pounds

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

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	<1.3	28-40	40-100	<0.6
PATIENT	--	--	NM	1.3	30	--	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				
PATIENT	--	--	--	--	--	4.2	--

Cardiac Presentation

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 separate methods of LA evaluation. The cranial and caudal **mitral** valve leaflets presented normal linear structure, extension in systole, and union in diastole with normal kinesis. The **left ventricle** presented normal thicknesses with linear contour and was not dilated nor restricted. The **myocardium** presented normal echogenicity without subjective evidence of significant fibrotic or ischemic disease.

Contractility of the ventricular walls was adequate and in normal range for this patient evidenced by the fractional shortening measurement and subjective evaluation of the different regions of the myocardium. The **left ventricular outflow** tract demonstrated normal laminar flow and subjective structural integrity. The **right atrium** and auricle revealed normal size, structure and content. No evidence of masses was noted. **Tricuspid** valvular assessment demonstrated adequate linear morphology and kinesis. The **right ventricle** was of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. **Pulmonary outflow** tract assessment revealed normal valve structure, laminar flow, and diameter (approx.1:1 pa/ao ratio).

Areas of tissue consolidation were noted, as well as a large amount of pleural effusion (this is not cardiogenic). Pleural strands were noted with heterogenous irregular tissue with mild deviation of curvilinear patterns. The caudal thorax also revealed lung consolidation. A lung mass was noted in the caudal thorax as well.

IMAGING PERFORMED BY

Karen Ebersole, DVM,
DABVP (Canine/Feline)

HOSPITAL NAME

Scanvet

REFERRING VET

Dr. Neat

INVOICE

21027

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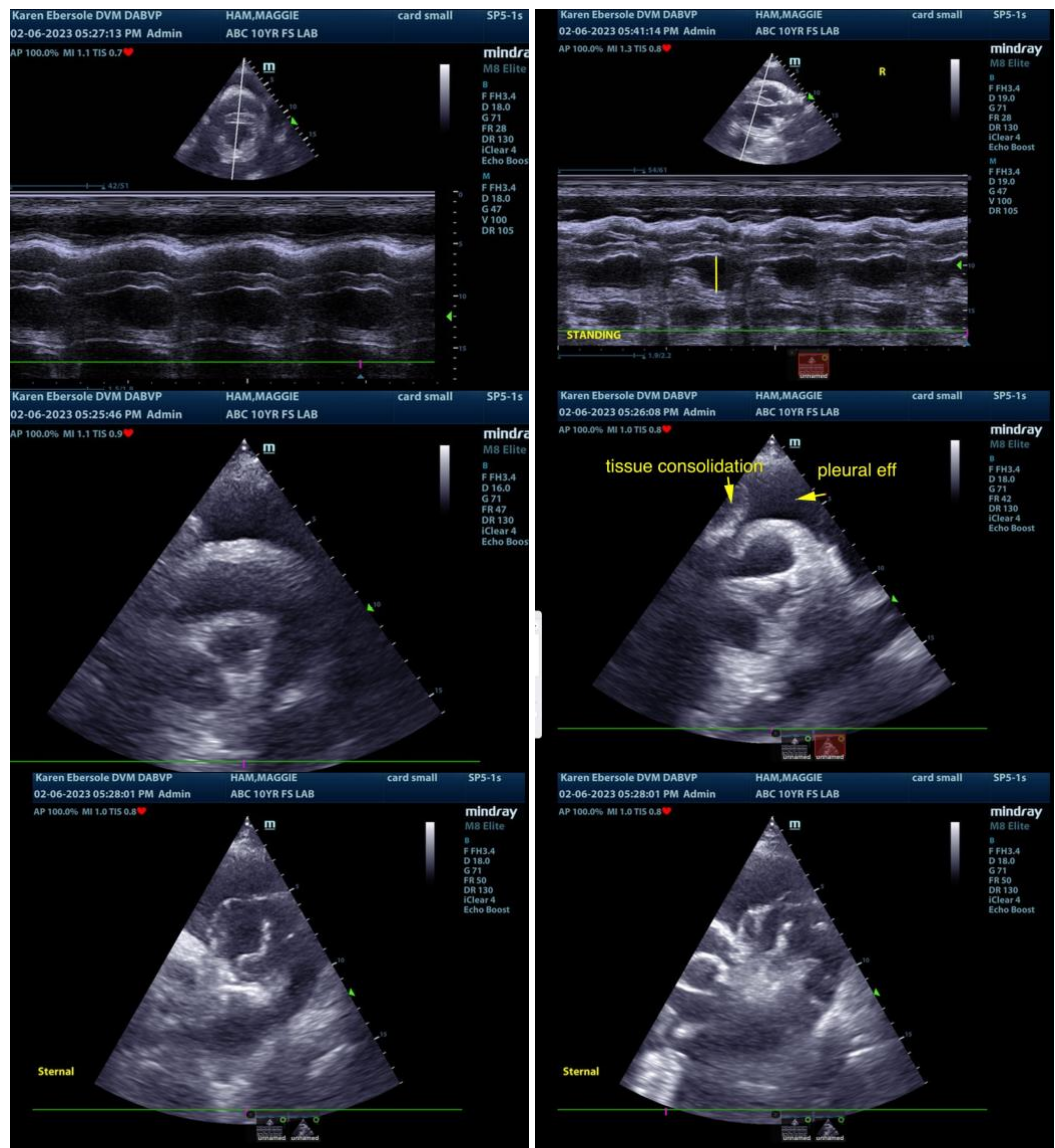
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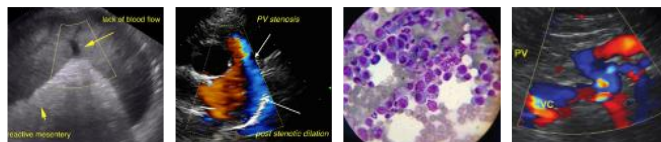
ULTRASONOGRAPHIC FINDINGS

- Lung mass in the caudal thorax and lung consolidation
- Noncardiogenic pleural effusion

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

I recommend cytospin of the hemorrhagic pleurocentesis sample for a definitive diagnosis, however, prognosis is poor. Chest CT would be ideal in this case. The tissue noted may be difficult to aspirate given the position, however, pleurocentesis and chest drainage may allow for decreased distance from the lung mass/lung consolidations to the thoracic body wall (this may allow for FNA).





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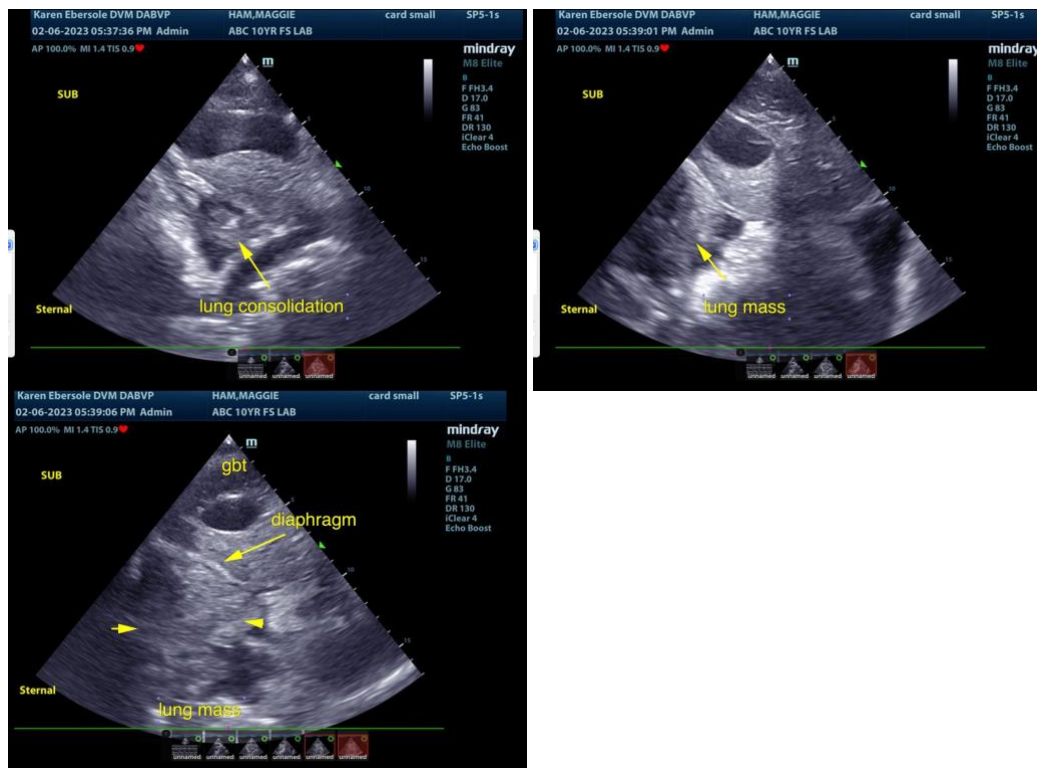
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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
info@SonoPath.com