



PATIENT

Ziva Myers

SPECIES

Canine

BREED

Border Collie X

SEX

Spayed Female

AGE

11.5 Years

WEIGHT

47 Pounds

INTERPRETED BY

Eric Lindquist, DMV

DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Rodriguez

HOSPITAL NAME

Foxfield Vet Services

REFERRING VET

Dr. Rodriguez

INVOICE

37662

DATE

5/16/22

PRESENTING CLINICAL SIGNS

Presented last friday with significant abdominal effusion (drained 2lbs of modified transudate). Began clavamox and pred. Presented today for further dx and effusion is significantly improved. Abnormal PE/Chem/CBC/UA Results: Cytology on abdominal fluid: modified/protein rich transudate with no neoplastic cells or infectious cells noted. BUN: 29, ALT: 574, ALK: 354, RBC 9.97, retic" 114.7, Hct: 64, WBC: 14.78, (ALT stable since 2/2/22).

ULTRASONOGRAPHIC EXAMINATION OF THE HEART & ABDOMEN

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	5.8	3.0	1.5	2.02	45	90	0.1
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	--	1.2	--		4.77	3.9	

Cardiac Presentation

The echocardiogram for this patient presented excessive **left atrial size** expressed both in the LA/AO and LA max measurements Chamber volumes and echogenicity were normal. The cranial and caudal **mitral** valve leaflets presented vegetative thickening consistent with endocardiosis. Doppler indicated measurable insufficiency. The **left ventricle** presented 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 or chamber overload. **Tricuspid** insufficiency noted. The **right ventricle** was of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. **Pulmonic** tract assessment revealed normal valve structure, laminar flow, and diameter (approx.1:1 pa/ao ratio). No visible **pericardial** or free pleura fluid was noted. No echographically detectable evidence of infiltrative disease was visible. The cranial **mediastinum and pericardial regions** were free of masses in the visible window.

Urinary System

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The ureters were not visible which is normal. No uroliths or sediment were visualized and anechoic urine was present. No evidence of inflammatory or neoplastic changes were noted. Ureteral papillae were normal. The pelvic urethra was imaged 1.0 cm beyond the cystourethral junction.



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The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some age-related loss of curvilinear patterns regarding the capsule and C/M junction. The cortices presented largely uniform texture with some increased echogenicity expected for his age patient. Medullary structure differed distinctly from that of the cortex and no evidence of pelvic dilation was present. The left kidney measured 6.6 cm.

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Adrenal Glands

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Both **adrenal glands** were visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. The right adrenal gland measured 2.43 cm x 0.90 cm.

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Spleen

The **spleen** presented a 3.0 cm mass deriving from the mid caudal body.

Liver

AGE

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The **liver** was riddled with multiple hypoechoic, ill-defined cystic and nodular masses with distorted architecture.

Gastrointestinal

WEIGHT

47 Pounds

The **gastrointestinal tract**, per se, was unremarkable.

Pancreas

The region of the **pancreas** was occupied by mixed echogenic, undifferentiated masses.

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Free Abdomen

Reactive mesentery noted associated with the cranial abdomen.

DABVP, Cert. IVUSS

ULTRASONOGRAPHIC FINDINGS

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- Stage B2 valvular disease
- Diffuse hepatic and pancreatic neoplasia with reactive mesentery and free fluid
- Geriatric abdomen otherwise

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Some organs were obscured by reactive mesentery. Exact origin of the neoplastic process is unclear. However, splenic, pancreatic and hepatic neoplasia is evident. Humane euthanasia should be considered in this patient.

REFERRING VET

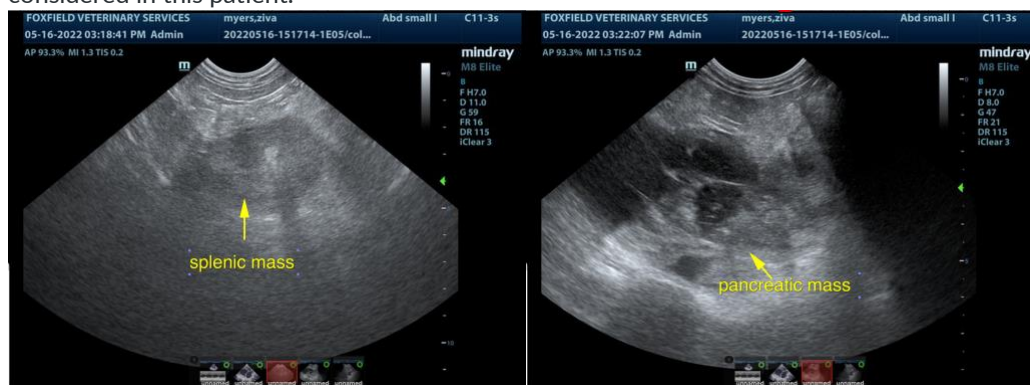
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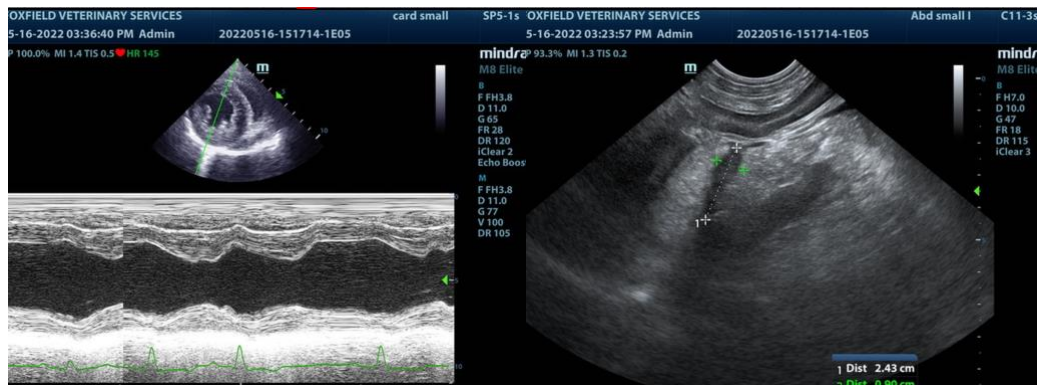
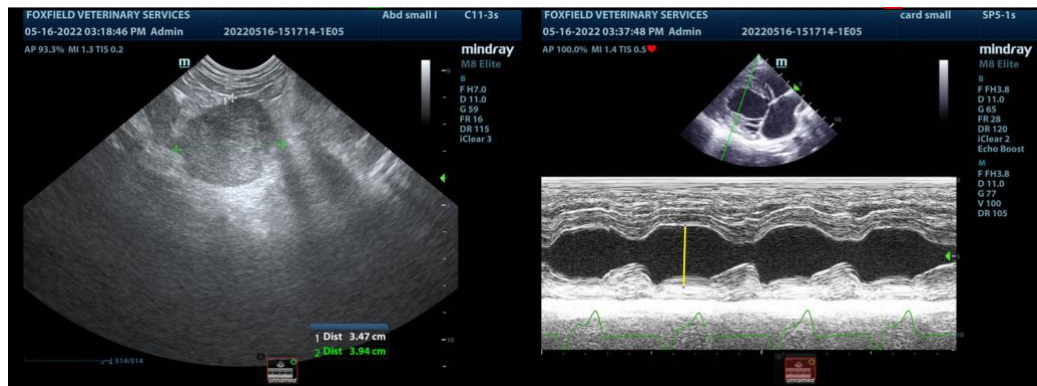
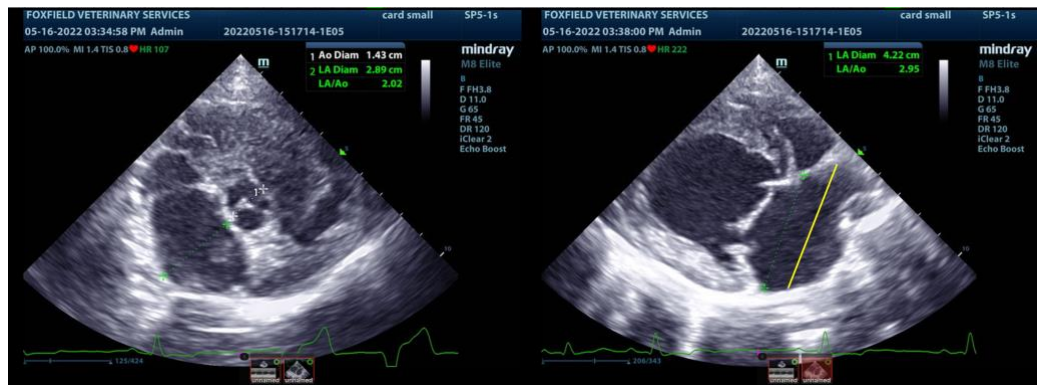
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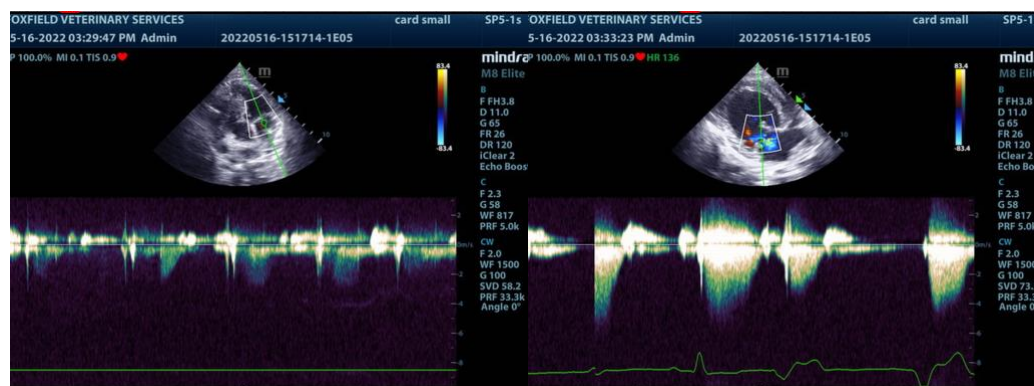
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

IMAGING PERFORMED BY

Dr. Rodriguez

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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