



PATIENT PRESENTING CLINICAL SIGNS

Ella Wolfson
 History: Grade II/VI systolic heart murmur. Sedated with Butorphanol/Dexdomitor
 Abnormal PE/Chem/CBC/UA Results: Left sided cardiomegaly on radiographs BP 170

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

BREED

Maltese

SEX

Spayed Female

AGE

10 years

WEIGHT

8.44 lbs

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 different LA measurement methods. 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** valvular assessment demonstrated adequate linear morphology. 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.

INTERPRETED BY

Eric Lindquist, DMV
 DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Striano Kaplan

HOSPITAL NAME

Ramsey VH

REFERRING VET

Dr. Striano Kaplan

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			1.2		30	60	0.3
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		1.3			2.14 max	1.89	

INVOICE

91224

DATE

8/31/21

ULTRASONOGRAPHIC FINDINGS

Suspect stage B1 valvular disease. There was no evidence of volume overload.



PATIENT

Ella Wolfson

SPECIES

Canine

BREED

Maltese

SEX

Spayed Female

AGE

10 years

WEIGHT

8.44 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Striano Kaplan

HOSPITAL NAME

Ramsey VH

REFERRING VET

Dr. Striano Kaplan

INVOICE

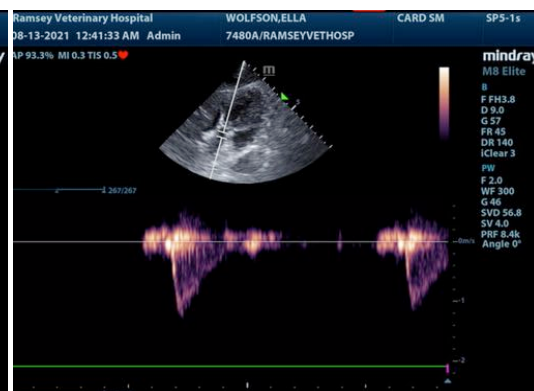
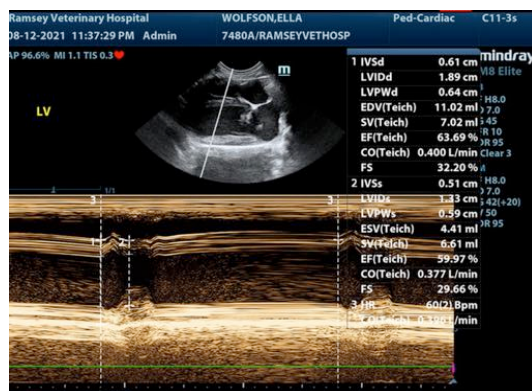
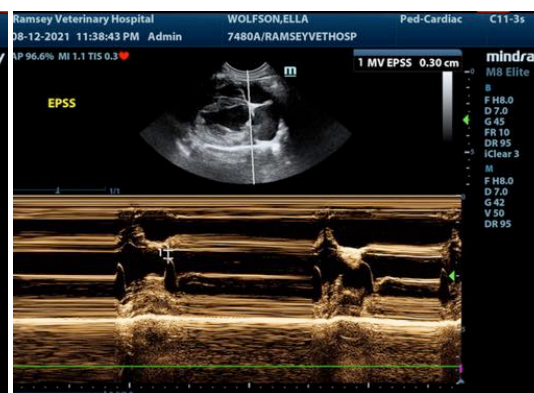
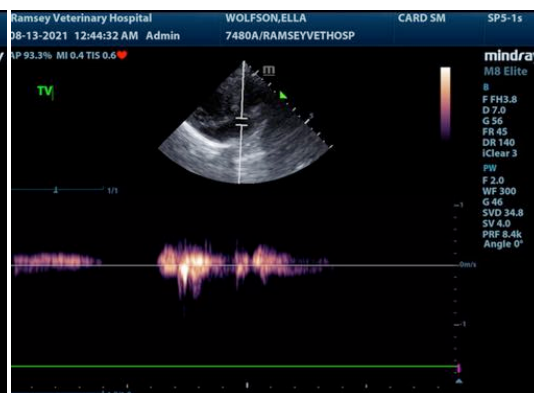
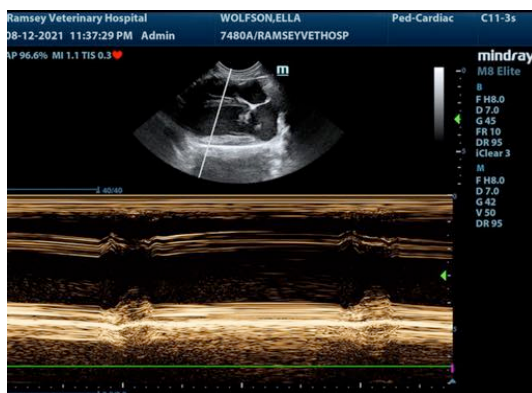
91224

DATE

8/31/21

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

No therapy is recommended at this time. Color flow Doppler evaluation of the mitral and tricuspid valves is recommended. There is no appreciable insufficiency noted on spectral Doppler. However, all volumes and function were normal. Given the systolic pressure >160 ace inhibitor therapy is warranted to treat for hypertension. However, no specific cardiac medications were recommended.





PATIENT

Ella Wolfson

SPECIES

Canine

BREED

Maltese

SEX

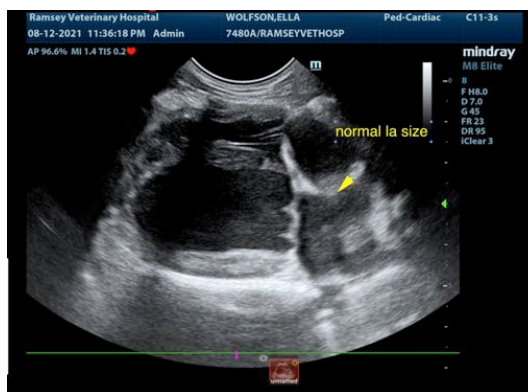
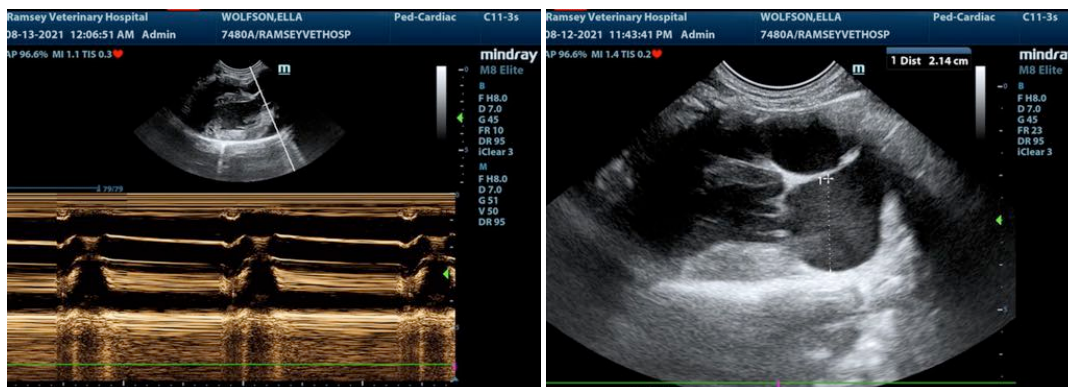
Spayed Female

AGE

10 years

WEIGHT

8.44 lbs



INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUS

IMAGING PERFORMED BY

Dr. Striano Kaplan

HOSPITAL NAME

Ramsey VH

REFERRING VET

Dr. Striano Kaplan

INVOICE

91224

DATE

8/31/21

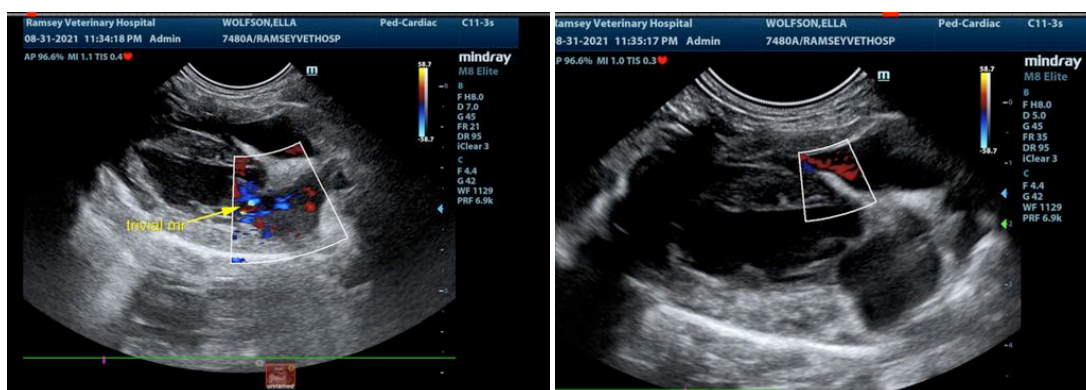
ADDENDUM 8/31/21

Color flow assessment of the mitral and tricuspid was performed. Trivial mitral valve insufficiency was noted. This is essentially flow turbulence. There was no evidence of disease. The pulmonic velocity measured 0.5 m/sec and the aortic velocity was 1.0 m/sec.

DIAGNOSIS

Trivial mitral insufficiency, not clinically significant.

There is no evidence of disease. No contraindication to anesthetic procedure.



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



PATIENT

image/video clips provided.

Ella Wolfson

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.

SPECIES

Canine

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

BREED

Maltese

SEX

Spayed Female

AGE

10 years

WEIGHT

8.44 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

**IMAGING
PERFORMED BY**

Dr. Striano Kaplan

HOSPITAL NAME

Ramsey VH

REFERRING VET

Dr. Striano Kaplan

INVOICE

91224

DATE

8/31/21