



PATIENT PRESENTING CLINICAL SIGNS

Frank Czerwinski

History: Hx of fainting - last fainting episode was on 11/9/21. 3/6 Left sided murmur.

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

BREED

Pekingese

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. Hepatic veins were not dilated.

SEX

Neutered male

AGE

11 years

WEIGHT

13.6 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Diane McFadden, RVT

HOSPITAL NAME

Vetco Total Care

INVOICE

94577

DATE

12/14/21

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	5.43		1.2	1.31	50	90	0.32
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT	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	90	1.37	0.6	13.6 lbs	2.7 max	2.4	



PATIENT ULTRASONOGRAPHIC FINDINGS

Frank Czerwinski Stage B1 valvular disease.

SPECIES INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Canine

There is no evidence of volume overload. Paroxysmal arrhythmia is a potential in this patient. Color flow assessment of the mitral valve revealed moderate filling of the left atrium. I recommend Holter monitor in this patient as well as blood pressure measurements. If the patient coughed prior to fainting then "cough drop" syndrome may be playing a role. There is no volume overload nor suggestion for left-sided heart failure at the time of the echocardiogram. Full CNS examination is warranted to assess for potential CNS causes. Although mitral insufficiency is present the heart is well compensated. Holter monitor can be obtained from our office.

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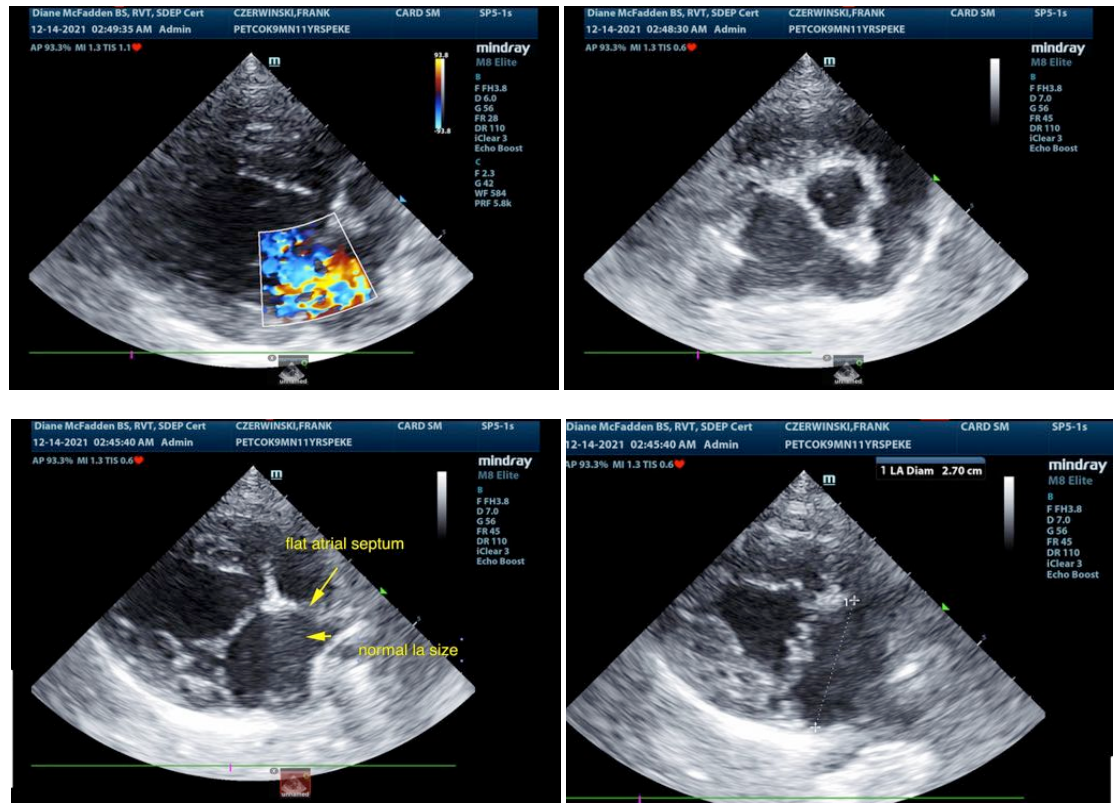
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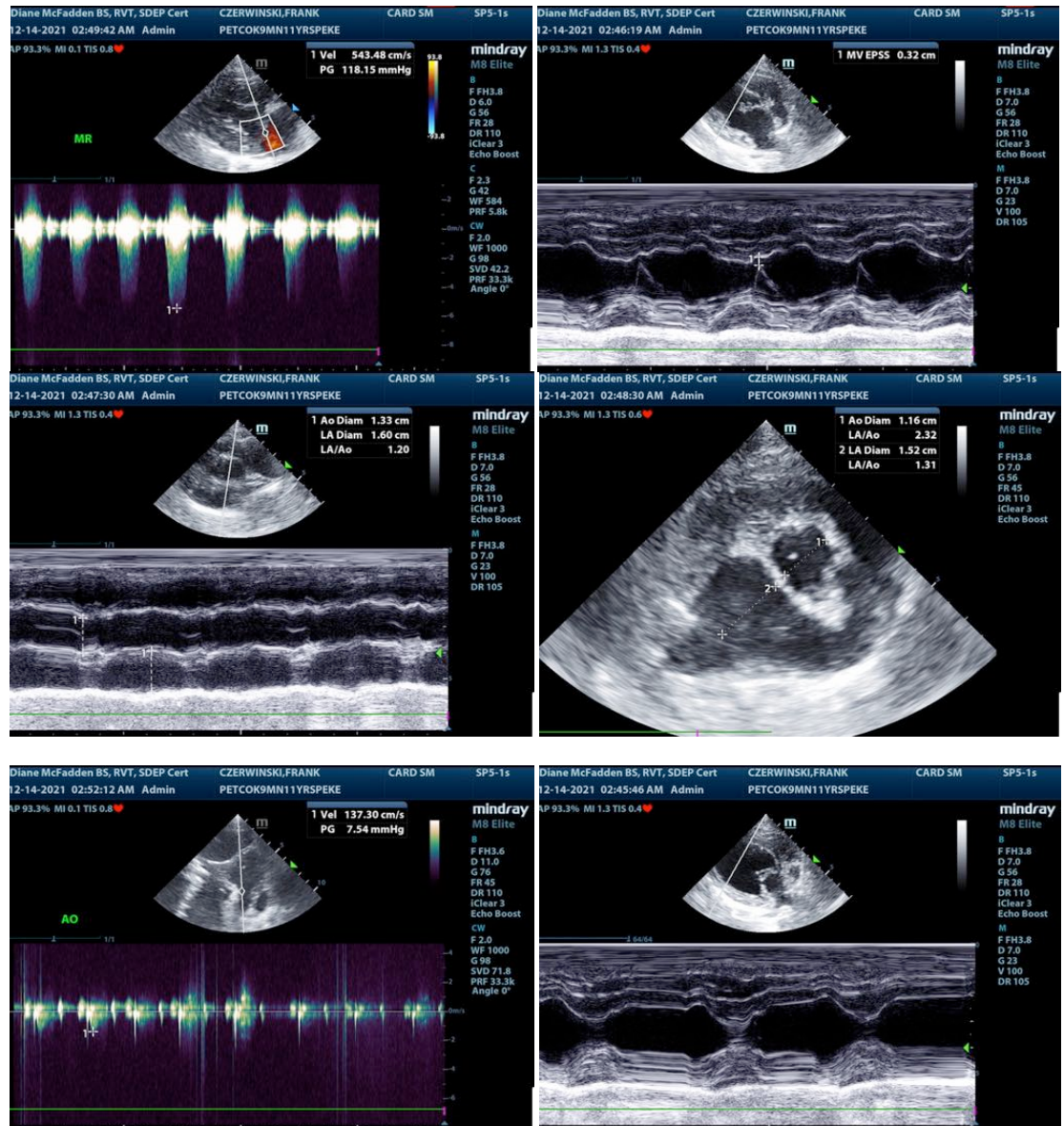
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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