



PATIENT PRESENTING CLINICAL SIGNS

Maisy Brann New murmur found on exam, no clinical signs. Sedated with Torbugesic IV.
 Abnormal PE/Chem/CBC/UA Results: PE: Grade 2-3/6 systolic murmur. CBC/Chem WNL. T-4 4.2

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

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. Complete filling of the left atrium was noted. This is consistent with severe mitral insufficiency, yet this appears well compensated at this time with compensatory contractility. No volume overload was noted. The **left ventricle** presented thicknesses with linear contour and was not dilated nor restricted. 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 was noted with a septally directed jet. The **right ventricle** was of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. Minor, trivial **pulmonic** insufficiency was noted. 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.

BREED

Miniature Pinscher Mix

SEX

Spayed Female

AGE

9 years

WEIGHT

11.4 lbs

INTERPRETED BY

Eric Lindquist, DMV
 DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Ebersole

HOSPITAL NAME

Scanvet

REFERRING VET

Dr. Barengo

CANINE	MR	TR	LA/AO	LA/AO	FS	EF	EPSS
CARDIAC PARAMETERS	VMAX (m/s)	VMAX (m/s)	(Boon method)	(Heart Base; Swe)	(%)	(%)	(cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
PATIENT		3.0	1.2	1.58	38	70	NM
CANINE	HR	AV	PV	BODY WEIGHT	LA	LVIDd	LVIDs
CARDIAC PARAMETERS	(BPM)	VMAX (m/s)	MAX (m/s)		2D short axis Base view (cm)	Avg; 2D and m-mode short axis (cm)	Avg; 2D and m-mode short axis (cm)
NORMAL PARAMETER	50-100	0.7-1.7	0.7-1.6				
PATIENT	74	2.0	0.79	11.4 lbs	2.7	2.91	

INVOICE

95443

DATE

1/20/22

ULTRASONOGRAPHIC FINDINGS

Stage B1 valvular disease.

Complete filling of the left atrium, consistent with severe mitral insufficiency, yet appears well compensated.

Pulmonic insufficiency, yet not clinically significant.



PATIENT

Maisy Brann

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

No cardiac therapy is recommended at this time. Given the history of elevated thyroid levels palpation and ultrasound of the thyroid gland is warranted to assess for tumors. However, feeding history is also recommended to ensure that the patient is not ingesting neck meat as this may elevate T4 levels.

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B1: The heart is stable without clinical disease. No overt contraindication for anesthesia of brief to moderate duration. I suggest Torbutrol premed, Propofol induction, Isoflurane maintenance or similar protocol if anesthesia is desired. Blood pressure recommended if not already performed and target white coat negative systolic pressure of < 160 mmHg. If higher than this ACE-inhibitor is suggested to reach this level. Recheck echocardiogram is recommended in 6 months, earlier if murmur grade increases or clinical signs initiate.

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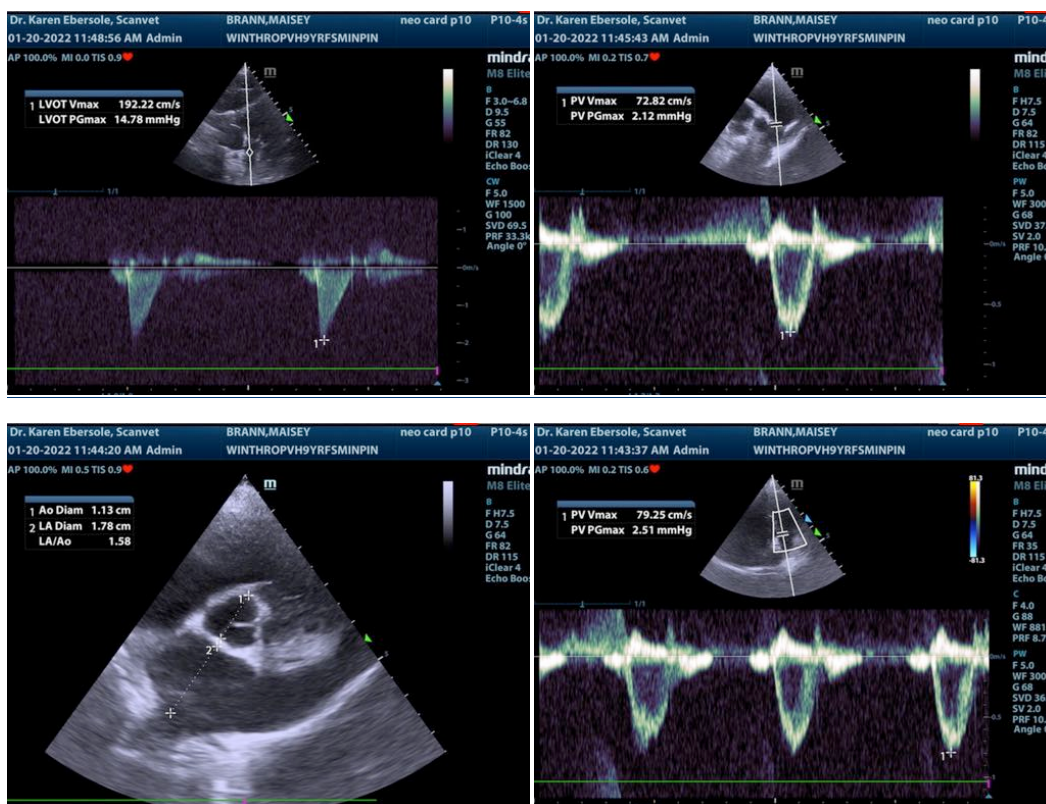
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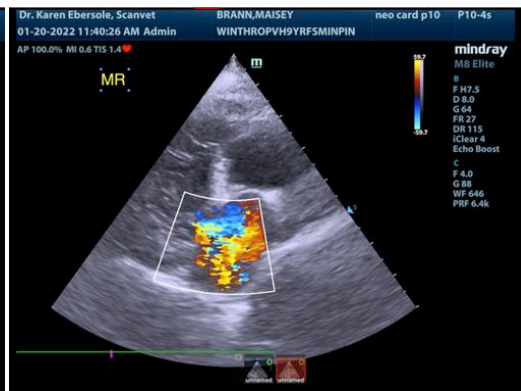
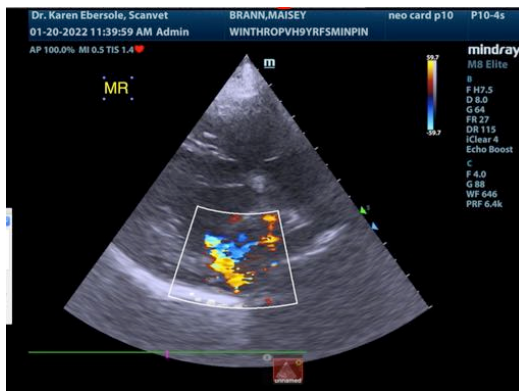
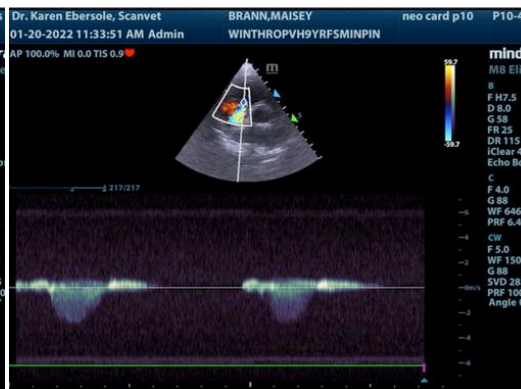
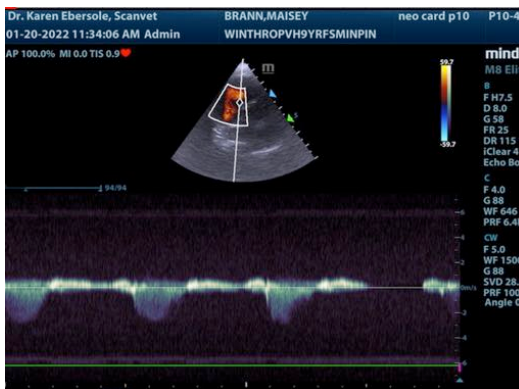
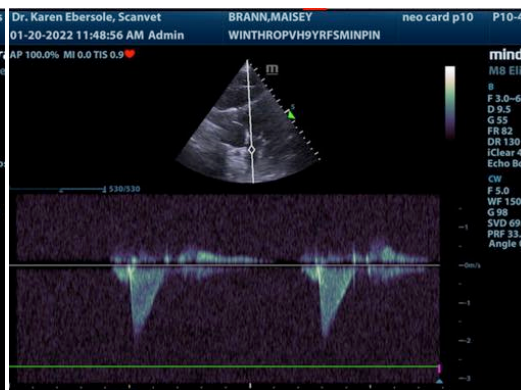
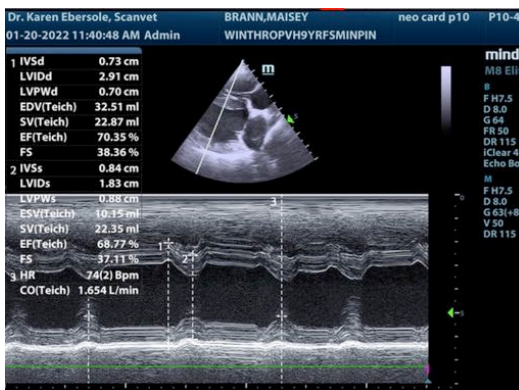
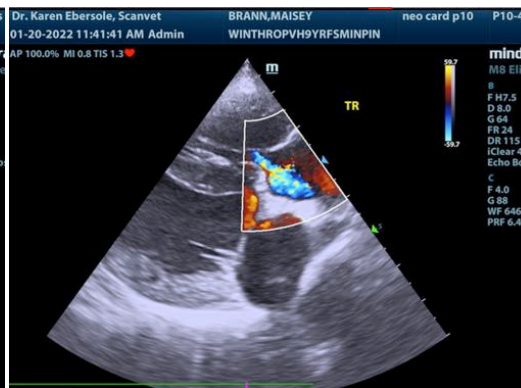
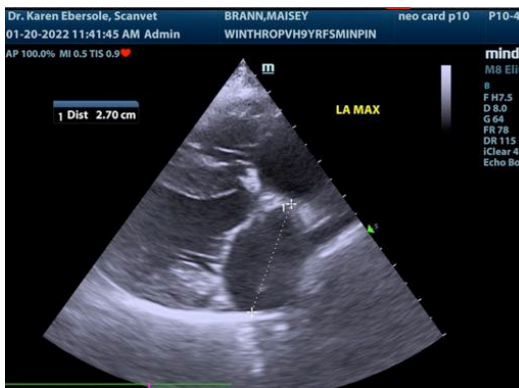
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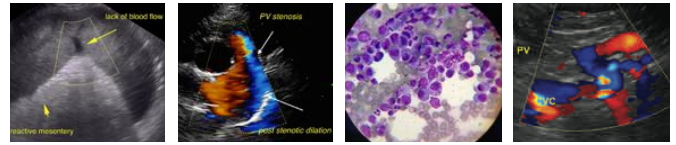
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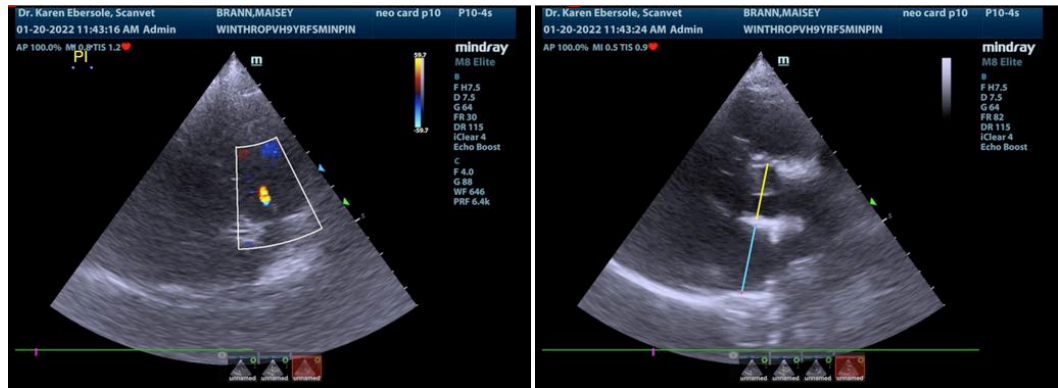
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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