



PATIENT PRESENTING CLINICAL SIGNS

Millie Cowan Murmur noted at puppy visit. O mentioned coughing now. IVomits occasionally - usually after a meal when she eats too fast.
 Abnormal PE/Chem/CBC/UA Results: PE: Grade VI/VI murmur, palpable thrill. Exam ownl.

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

BREED

Doodle

SEX

Intact female

AGE

4 months

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** was enlarged with **tricuspid** insufficiency, concentric hypertrophy of the **right ventricle** with severe elevations of the **pulmonic outflow** velocity of up 5.2 m/sec. Secondary pulmonic insufficiency was noted at 3.5 m/sec. No visible **pericardial** or free pleura fluid was noted. The cranial **mediastinum and pericardial and extra-cardiac regions** were free of masses in the visible window. The hepatic veins were not dilated at this point. There is no right sided failure noted.

WEIGHT

18.6 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Krell

HOSPITAL NAME

Paws and Prairie AC

REFERRING VET

Dr. Hensel

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			1.15	1.4	35	85	0.1
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	BELOW	BELOW	BELOW	BELOW
PATIENT		1.3	5.2	18.6 lbs	2.1	1.8	

ULTRASONOGRAPHIC FINDINGS

INVOICE

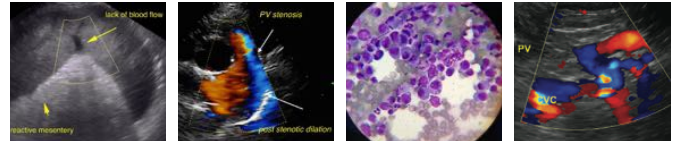
42397

Pulmonic stenosis with secondary pulmonic insufficiency.

Right-sided volume overload with concentric hypertrophy of the right ventricle.

DATE

11/8/22



PATIENT

Millie Cowan

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Referral for interventional procedure is recommended with interventional cardiologist. The prognosis is very guarded to poor without intervention.

SPECIES

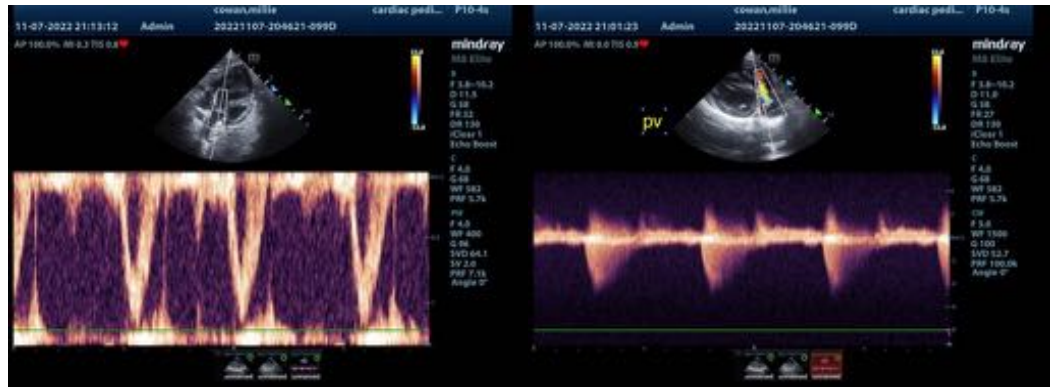
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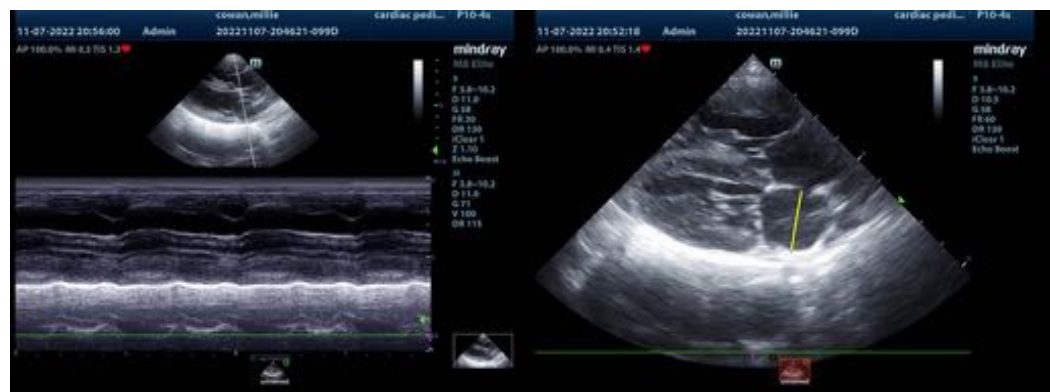
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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