


PATIENT

Gigi Lopez

PRESENTING CLINICAL SIGNS

4/6 holosystolic murmur. on conveina and claro-otic

Abnormal PE/Chem/CBC/UA Results: wnl

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE HEART
BREED

Pit Mix

SEX

FS

AGE

2.5yr

WEIGHT

72lb

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	<1.3	28-40	40-100	<0.6
PATIENT				1.34	45.3	77.1	0.25
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	148	2.5	1.8		3.7	4.1	

Cardiac Presentation
INTERPRETED BY

 R. McKenzie Daniel,
 DVM, DABVP
 (Canine and Feline)

The echocardiogram in this patient demonstrated normal left atrial size based on 3 separate methods of LA evaluation. No evidence of LA enlargement or left heart volume overload was present. The cranial and caudal mitral valve leaflets presented normal linear structure, extension in systole, and union in diastole with normal kinesis. No overt MR on Doppler. The left ventricle presented normal thicknesses with linear contour and was not dilated nor restricted. No evidence of septal or LV free wall hypertrophy was observed. 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 turbulent to dynamic flow with overtly normal aortic valve. A potential indistinctly visualized subaortic ridge or possible fibrous band proximal to the aortic valve was noted with mild increased LVOT velocity. The right atrium and auricle revealed normal size, structure and content. No evidence of masses was noted. Tricuspid valvular assessment demonstrated adequate linear morphology and kinesis. The right ventricle was of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. Pulmonary outflow tract assessment revealed normal valve structure, laminar flow, and diameter (approx. 1:1 pa/ao ratio). Trace pulmonic insufficiency was noted on Doppler. 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.

IMAGING PERFORMED BY

Diane McFadden

HOSPITAL NAME

Newton VH

REFERRING VET

Dr. Bladek

INVOICE

12094ag

DATE

11/07/2022

ULTRASONOGRAPHIC FINDINGS

- Overall normal cardiac structure and function
- Mild increased LVOT velocity with turbulent to dynamic LV outflow pattern
- Trace pulmonic insufficiency



PATIENT

Gigi Lopez

SPECIES

Canine

BREED

Pit Mix

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The only source of the murmur in this study is the mildly elevated LVOT velocity and turbulent to dynamic LV outflow pattern with possible although not definitive indistinctly visualized fibrous or similar proximal to the aortic valve. This finding is suggestive of mild subaortic stenosis. This appears to be well compensated at this stage without evidence of LV hypertrophy or LV enlargement. No other clinical issues such as LV systolic dysfunction or overt shunt i.e. obvious VSD. No evidence of PDA was present as well as no evidence of additional valvular insufficiencies, stenotic disease or clinical pulmonary hypertension. No overt indication for cardiac medications given lack of LV changes and measured LVOT velocity. Prognosis is highly variable and serial sonographic monitoring is advised. Exercise restriction may be considered if evidence of exercise intolerance is noted. Recheck echocardiogram recommended in 6-12 months, sooner if clinical signs of heart disease arise.

SEX

FS

AGE

2.5yr

WEIGHT

72lb

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Diane McFadden

HOSPITAL NAME

Newton VH

REFERRING VET

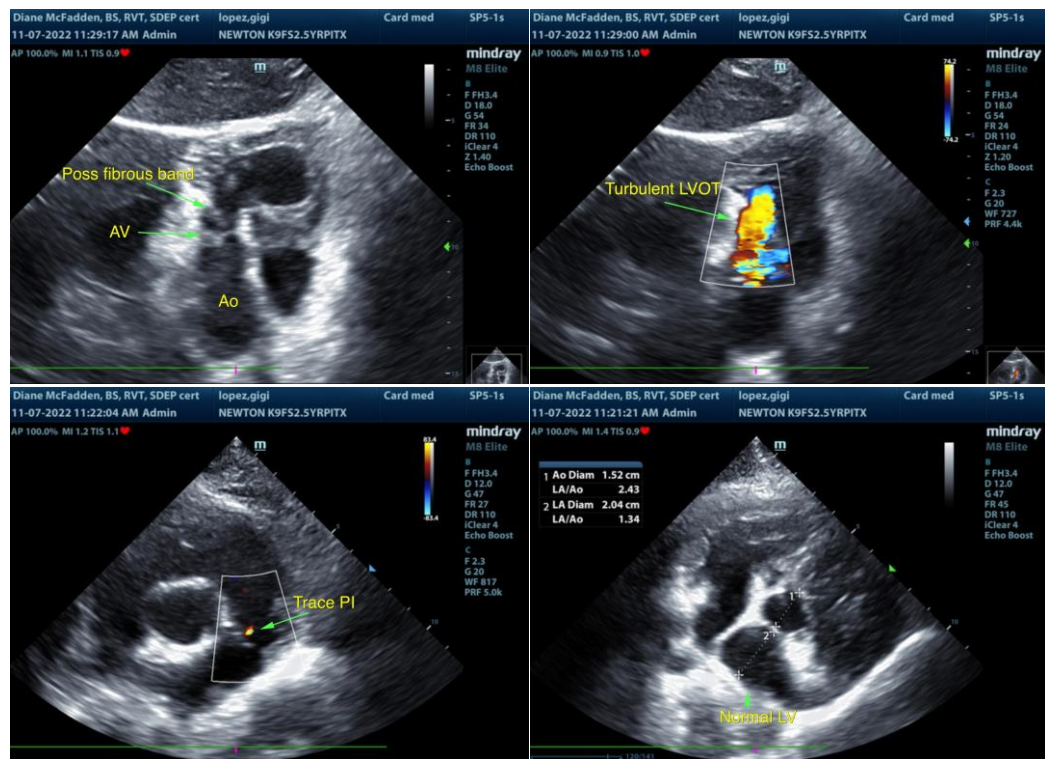
Dr. Bladek

INVOICE

12094ag

DATE

11/07/2022





PATIENT

Gigi Lopez

SPECIES

Canine

BREED

Pit Mix

SEX

FS

AGE

2.5yr

WEIGHT

72lb

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Diane McFadden

HOSPITAL NAME

Newton VH

REFERRING VET

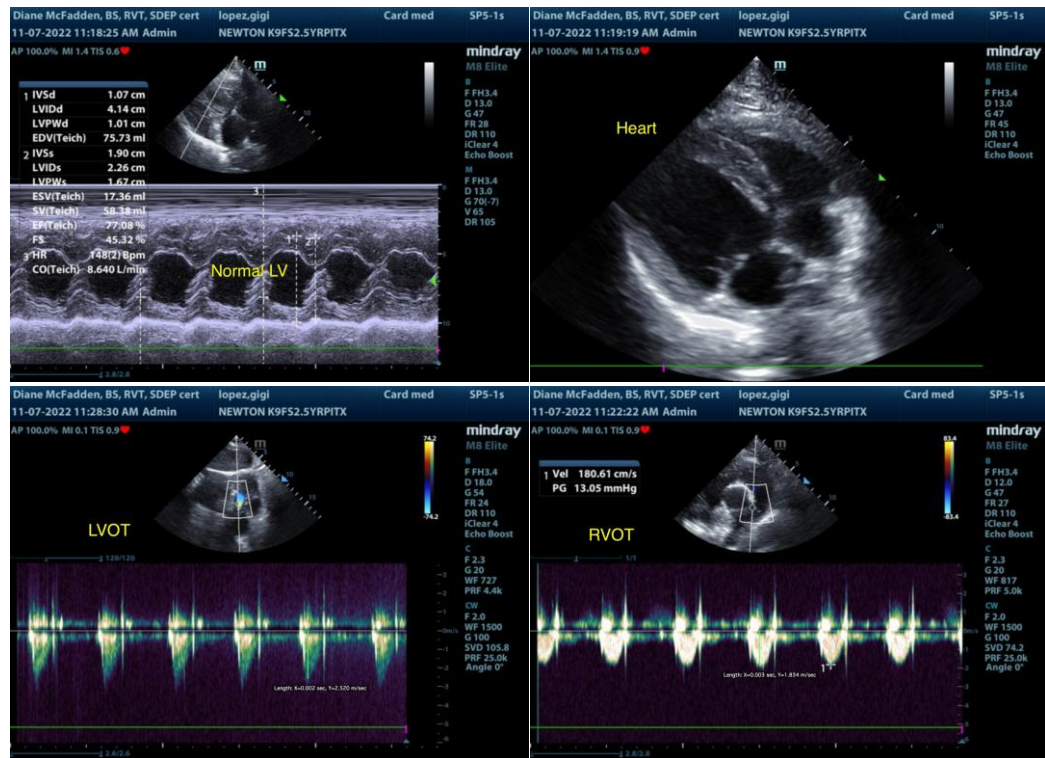
Dr. Bladek

INVOICE

12094ag

DATE

11/07/2022



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.

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)

info@SonoPath.com