



PATIENT

Mia Suarez

SPECIES

Canine

BREED

Shih Tzu x

SEX

Spayed Female

AGE

10 Years 6 Months

WEIGHT

5.3 kg

INTERPRETED BY

Eric Lindquist, DMV,
DABVP (CFM), Cert.
IVUSS

IMAGING PERFORMED BY

Vincent Ravancho, CVT

HOSPITAL NAME

Bond Vet Paramus

REFERRING VET

Dr. Kay

INVOICE

75390

DATE

5/22/26

PRESENTING CLINICAL SIGNS

Low-grade heart murmur w/ elevated proBNP, Anesthesia planning for COHAT
Abnormal PE/Chem/CBC/UA Results: proBNP 1453

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (M-Mode)	LA/AO (Heart Base; Swe)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	Up to 1.6	28-40	40-100	<0.6
PATIENT	5.58	2.0	1.3	1.5	51	84	0.3
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT (kg)	LAD LA MAX 4 Chamber	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	154	1.07	0.89	5.3	2.8	2.64	--

Cardiac Presentation

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. Prolapse of the anterior mitral valve leaflet noted, yet no volume overload at this time. 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** insufficiency noted. 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.

ULTRASONOGRAPHIC FINDINGS

- Stage B1 valvular disease with prolapse.



PATIENT

Mia Suarez

SPECIES

Canine

BREED

Shih Tzu x

SEX

Spayed Female

AGE

10 Years 6 Months

WEIGHT

5.3 kg

INTERPRETED BY

Eric Lindquist, DMV,
DABVP (CFM), Cert.
IVUSS

IMAGING PERFORMED BY

Vincent Ravancho, CVT

HOSPITAL NAME

Bond Vet Paramus

REFERRING VET

Dr. Kay

INVOICE

75390

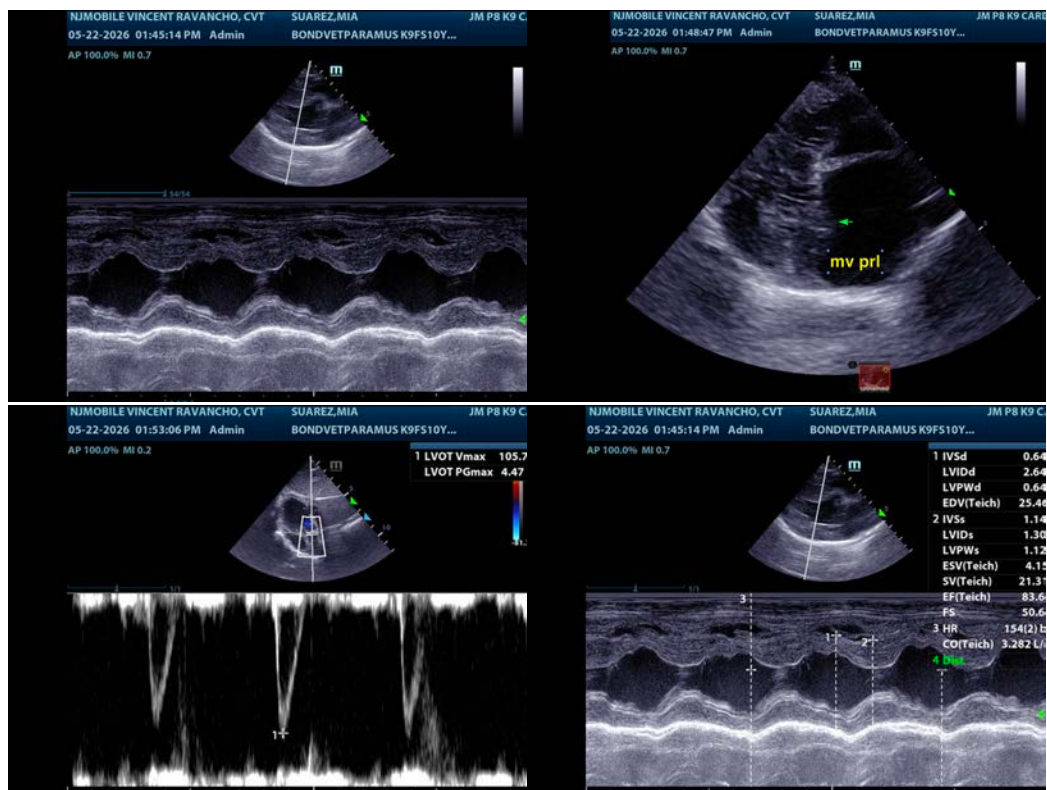
DATE

5/22/26

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Recheck echo in 6 months, earlier if any clinical signs initiate. There is mild anesthetic risk mainly owing to the fragility of the mitral valve apparatus. However, there is no volume overload and therefore no treatment recommended at this point. Serial blood pressures warranted to ensure systemic hypertension is not an issue. Recommend minimal anesthetic time in this patient.

The heart is stable without clinical disease. No overt contraindication for anesthesia of brief to moderate duration. I suggest Torbutrol premed, Propofol induction, Isoflor maintenance or similar protocol if anesthesia is desired. Blood pressure, EKG and chest radiographs are recommended if not already performed. 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.





PATIENT

Mia Suarez

SPECIES

Canine

BREED

Shih Tzu x

SEX

Spayed Female

AGE

10 Years 6 Months

WEIGHT

5.3 kg

INTERPRETED BY

Eric Lindquist, DMV,
 DABVP (CFM), Cert. IVUSS

IMAGING PERFORMED BY

Vincent Ravancho, CVT

HOSPITAL NAME

Bond Vet Paramus

REFERRING VET

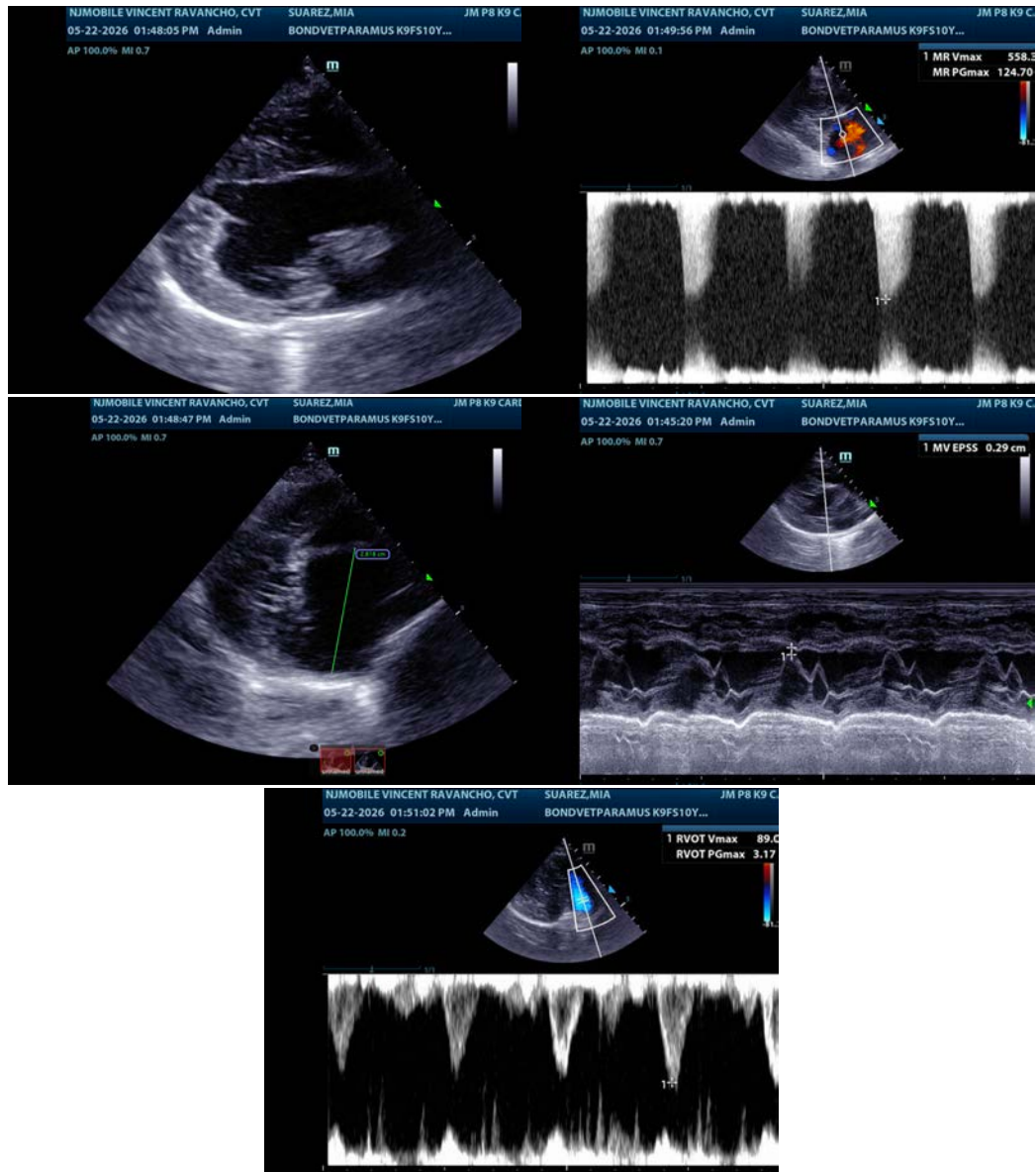
Dr. Kay

INVOICE

75390

DATE

5/22/26



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(CFM), Cert. IVUSS,
 CEO, Owner, Founder -- SonoPath.com
info@SonoPath.com