

PATIENT

Ranger Raza

SPECIES

Canine

BREED

German Shepherd

SEX

Neutered male

AGE

8 years

WEIGHT

78 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

John Sampson

HOSPITAL NAME

Richboro VH

REFERRING VET

Dr. Sampson

INVOICE

71437

DATE

2/10/26

PRESENTING CLINICAL SIGNS

- Recheck Echo. Owner states he is doing well
- PE today showed no arrhythmia and no overt murmur ausculted.
- CBC/Chem ran today are normal as well
-

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 separate methods of LA evaluation. Trivial **mitral** valve insufficiency was noted. 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. **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). 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.

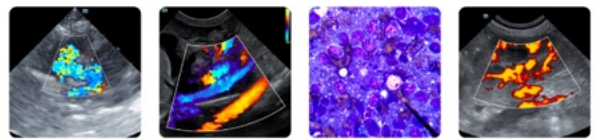
CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO	LA/AO (Heart Base)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
PATIENT	-	-	1.1	1.6	20	50	0.77
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT	LA 2D short axis Base view (cm)	LVIDd 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	70	-	0.8	78 lbs	4.9	3.8	

ULTRASONOGRAPHIC FINDINGS

Normalized cardiac volume with persistent myocardial insufficiency.

Trivial mitral insufficiency.

No further left atrial and left ventricular volume.



PATIENT

Ranger Raza

SPECIES

Canine

BREED

German Shepherd

SEX

Neutered male

AGE

8 years

WEIGHT

78 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

John Sampson

HOSPITAL NAME

Richboro VH

REFERRING VET

Dr. Sampson

INVOICE

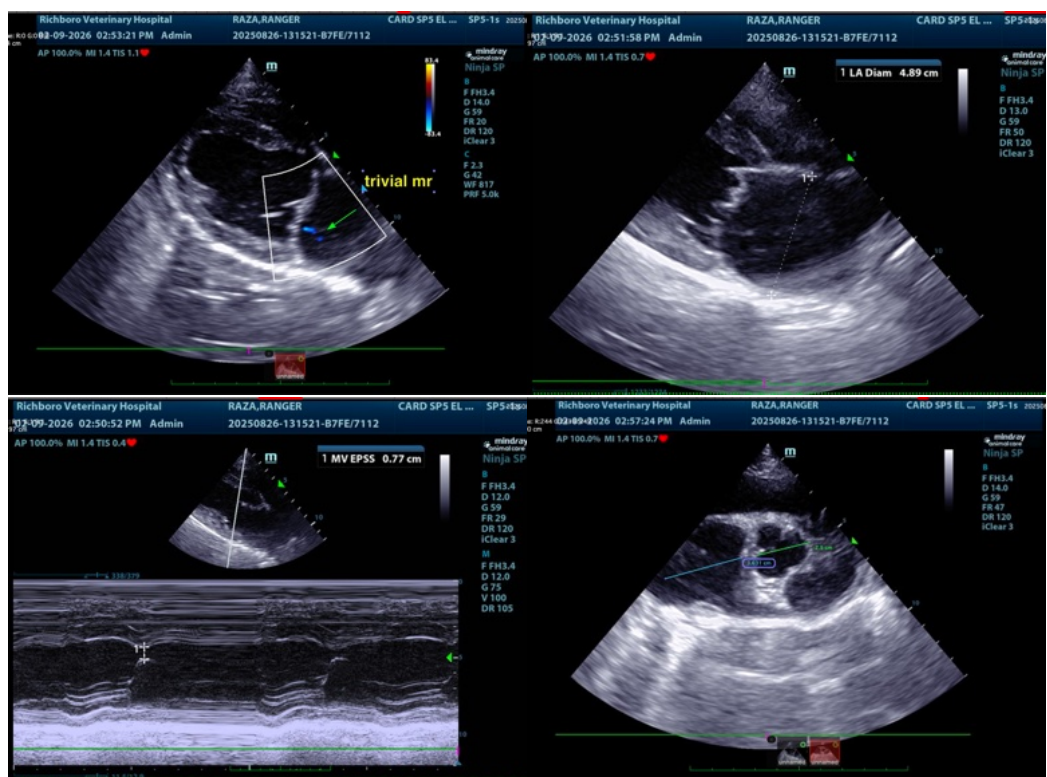
71437

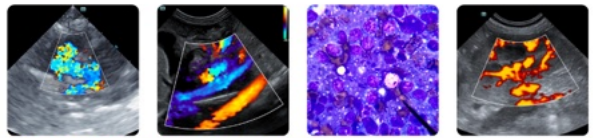
DATE

2/10/26

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Compared to the prior echocardiogram, left-sided volume overload has largely resolved. The mitral insufficiency is trivial as opposed to significant in the prior echocardiogram. Contractility has improved; however, it is still subnormal. This demonstrates a solid response to therapy. Assuming that the patient is under medical management for left-sided heart failure from the prior episode, I recommend continuation of that management with monitoring any potential for other causes of hypocontractility such as nutritional deficits/taurine level would be appropriate if not already performed. Hypothyroidism and Addison's systemic disease and infectious agents should all be kept in mind as potential historical influencers into the presentation. Recheck echocardiogram is recommended in 6 months if the patient is stable. Holter monitor would be ideal to ensure no underlying arrhythmia is present. I am concerned about the poor contractility in this patient and potential predisposition to development of heart failure in the future. However, at the current time the heart appears stable under the current protocol.





PATIENT

Ranger Raza

SPECIES

Canine

BREED

German Shepherd

SEX

Neutered male

AGE

8 years

WEIGHT

78 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

John Sampson

HOSPITAL NAME

Richboro VH

REFERRING VET

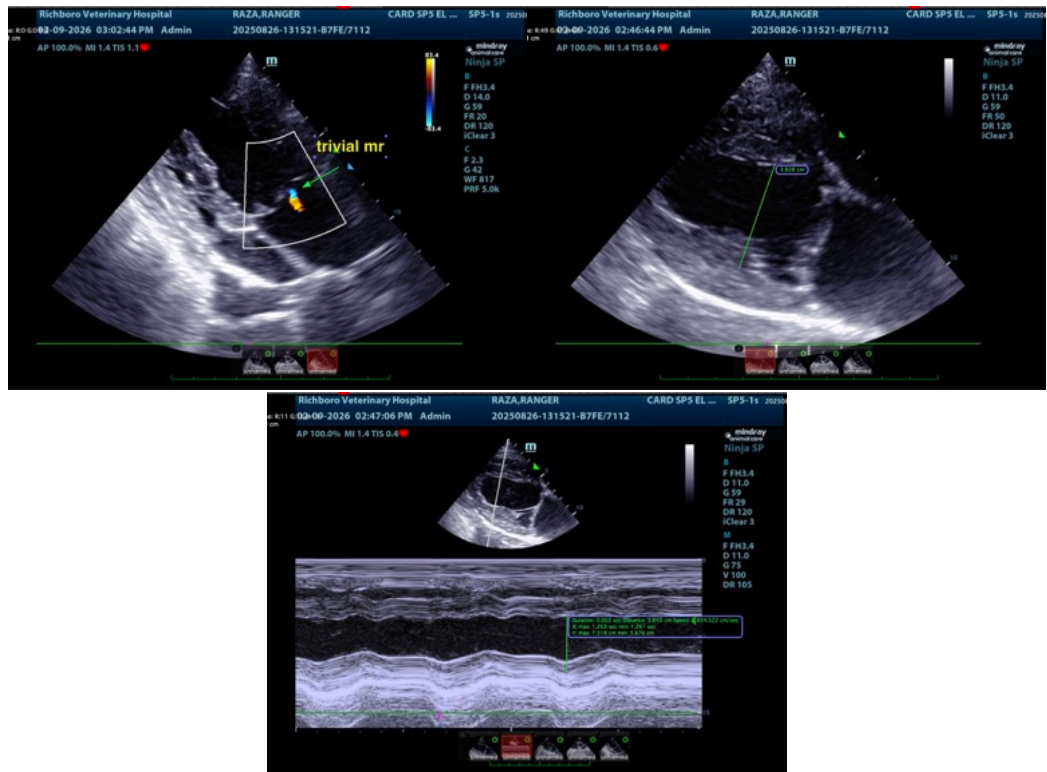
Dr. Sampson

INVOICE

71437

DATE

2/10/26



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 of SonoPath.com

info@SonoPath.com