



## PATIENT

Jax Swords

## SPECIES

Canine

## BREED

Jack Russell Mix

## SEX

Neutered Male

## AGE

10 Years 8 Months

## WEIGHT

26 Pounds

## INTERPRETED BY

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

## IMAGING PERFORMED BY

Carolina Mobile Vet

## HOSPITAL NAME

Armstrong AC

## REFERRING VET

Dr. Marnie Gallagher

## INVOICE

23656

## DATE

7/28/23

## PRESENTING CLINICAL SIGNS

History: New Murmur heard on exam. P needs dental. Please advise on anesthesia

Abnormal PE/Chem/CBC/UA Results: Previous history of elevated liver enzymes- abdominal ultrasound done last Friday and submitted to Sonopath

## ULTRASONOGRAPHIC EXAMINATION OF THE HEART

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	5.84	--	1.3	1.46	--	--	0.1
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	2.78	1.90	1.52	--	2.83	--	--

E-wave velocity: 91

## 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. 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. Aortic velocity was mildly excessive. The **right atrium** and auricle revealed normal size, structure and content. No evidence of masses was noted or chamber overload. **Tricuspid** valvular assessment demonstrated adequate linear morphology. 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 B-1 valvular disease with mild idiopathic increased left ventricular outflow velocity



**PATIENT**

Jax Swords

**SPECIES**

Canine

**BREED**

Jack Russell Mix

**SEX**

Neutered Male

**AGE**

10 Years 8 Months

**WEIGHT**

26 Pounds

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Carolina Mobile Vet

**HOSPITAL NAME**

Armstrong AC

**REFERRING VET**

Dr. Marnie Gallagher

**INVOICE**

23656

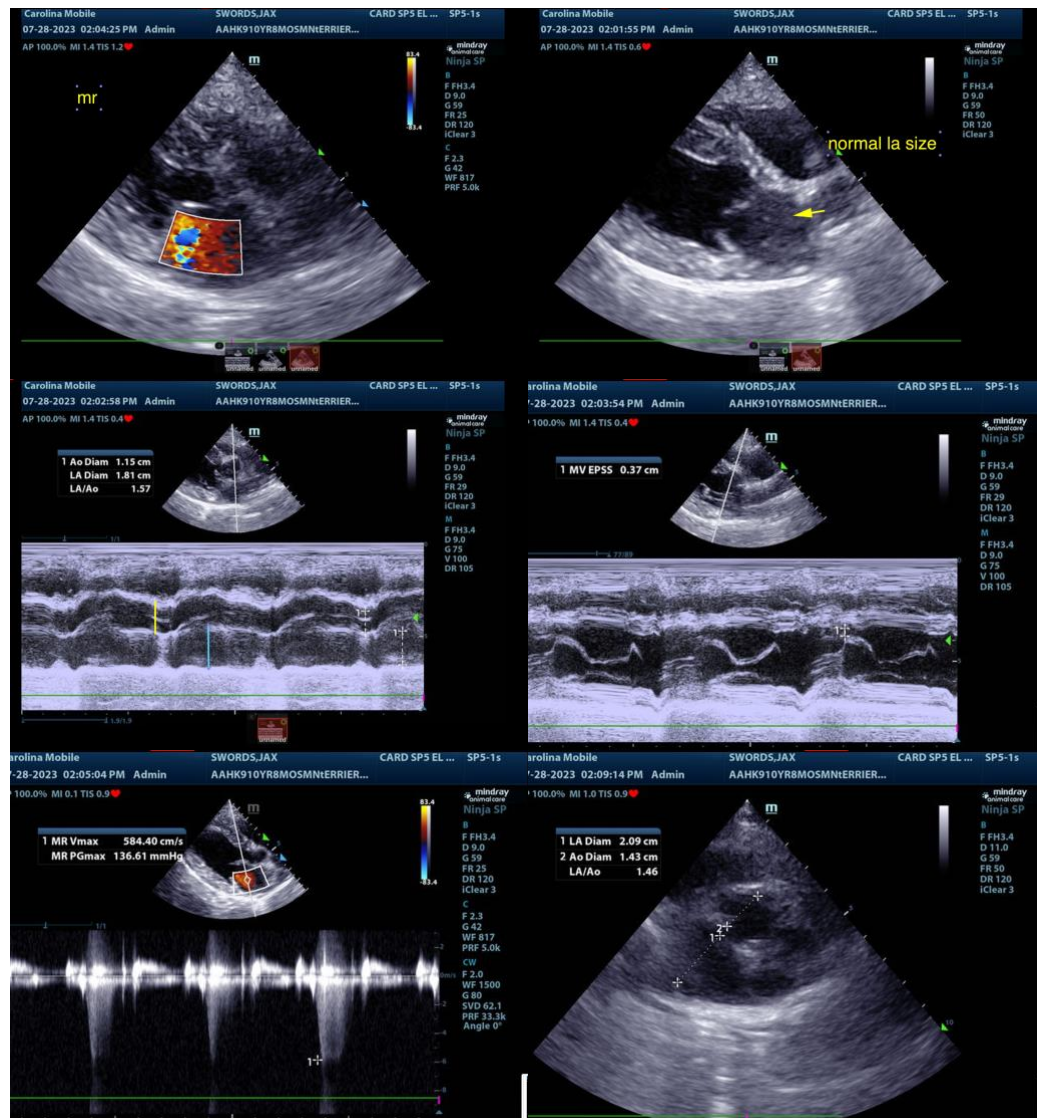
**DATE**

7/28/23

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Blood pressure measurements are recommended. If no hypertension is present, then no contraindication to anesthetic procedure.

The heart is stable without clinical disease. No overt contraindication for anesthesia of brief to moderate duration, \*see above recommendation. I suggest Torbutrol premed, Propofol induction, Isoflo 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.





**PATIENT**

Jax Swords

**SPECIES**

Canine

**BREED**

Jack Russell Mix

**SEX**

Neutered Male

**AGE**

10 Years 8 Months

**WEIGHT**

26 Pounds

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Carolina Mobile Vet

**HOSPITAL NAME**

Armstrong AC

**REFERRING VET**

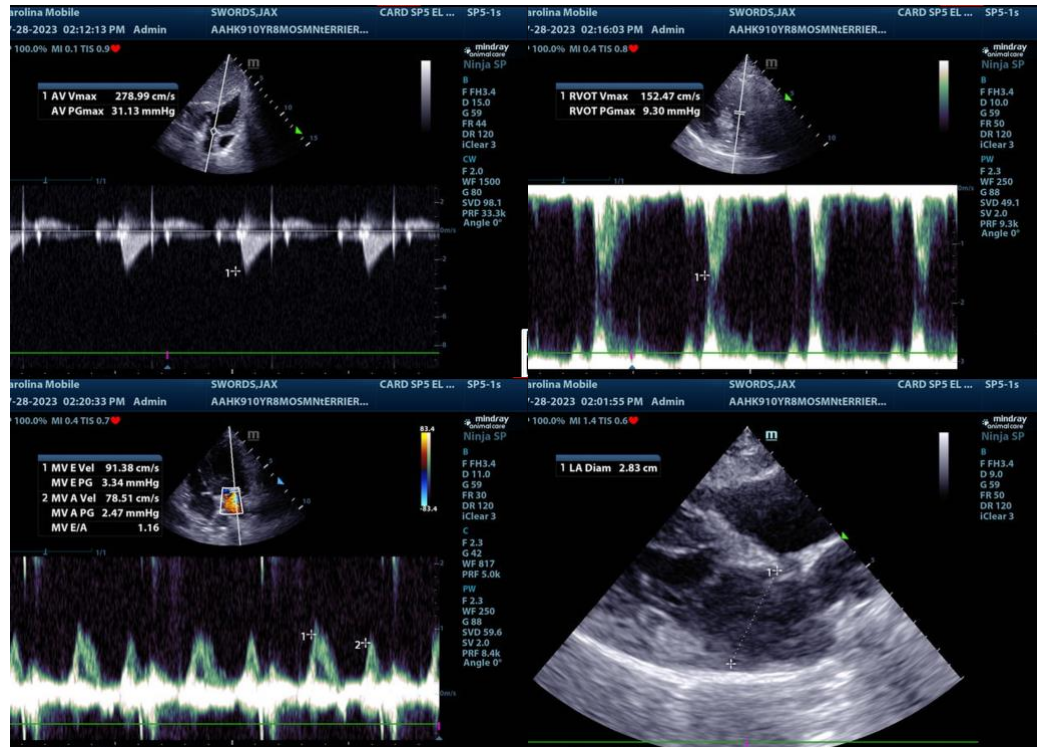
Dr. Marnie Gallagher

**INVOICE**

23656

**DATE**

7/28/23



The information and recommendations provided are based on the images presented by the referring veterinarian. 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