



PATIENT

Albert Rivera

SPECIES

Canine

BREED

Pomeranian

SEX

Neutered male

AGE

10 years

WEIGHT

21.8 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Jocelyn Smith, CVT

HOSPITAL NAME

Annville Cleona
Veterinary Associates

REFERRING VET

Dr. Bardsley

INVOICE

70892

DATE

1/22/26

PRESENTING CLINICAL SIGNS

- Consistent coughing with SID lasix - O just increased to BID
- Previous echo done 5/14/25
- Anorexia last 24 hours
- Lasix 12.5mg BID
- Enalapril 5mg BID
- Vetmedin 2.5mg BID
- Radiographs- R lateral thorax: severely enlarged LA, mainstem bronchi appear small

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The echocardiogram in this patient demonstrated volume overload noted in the **left atrium** and **left ventricle**. Severe **mitral** valve insufficiency was noted with prolapse of the anterior mitral valve leaflet. **Contractility** appeared adequate; however, given the bradyarrhythmia I am concerned for potential heart block. The **left ventricular outflow** tract demonstrated normal laminar flow and subjective structural integrity. The **right atrium** and **right ventricle** were unremarkable. **Tricuspid** valvular assessment demonstrated adequate linear morphology and kinesis. **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. Bradyarrhythmia was noted.

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	NM	NM	NM	NM	45	NM	NM
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	Variable 80	NM	NM	21.8 lbs	3.8 max	3.5	NM

ULTRASONOGRAPHIC FINDINGS

Decompensating C1 valvular disease.



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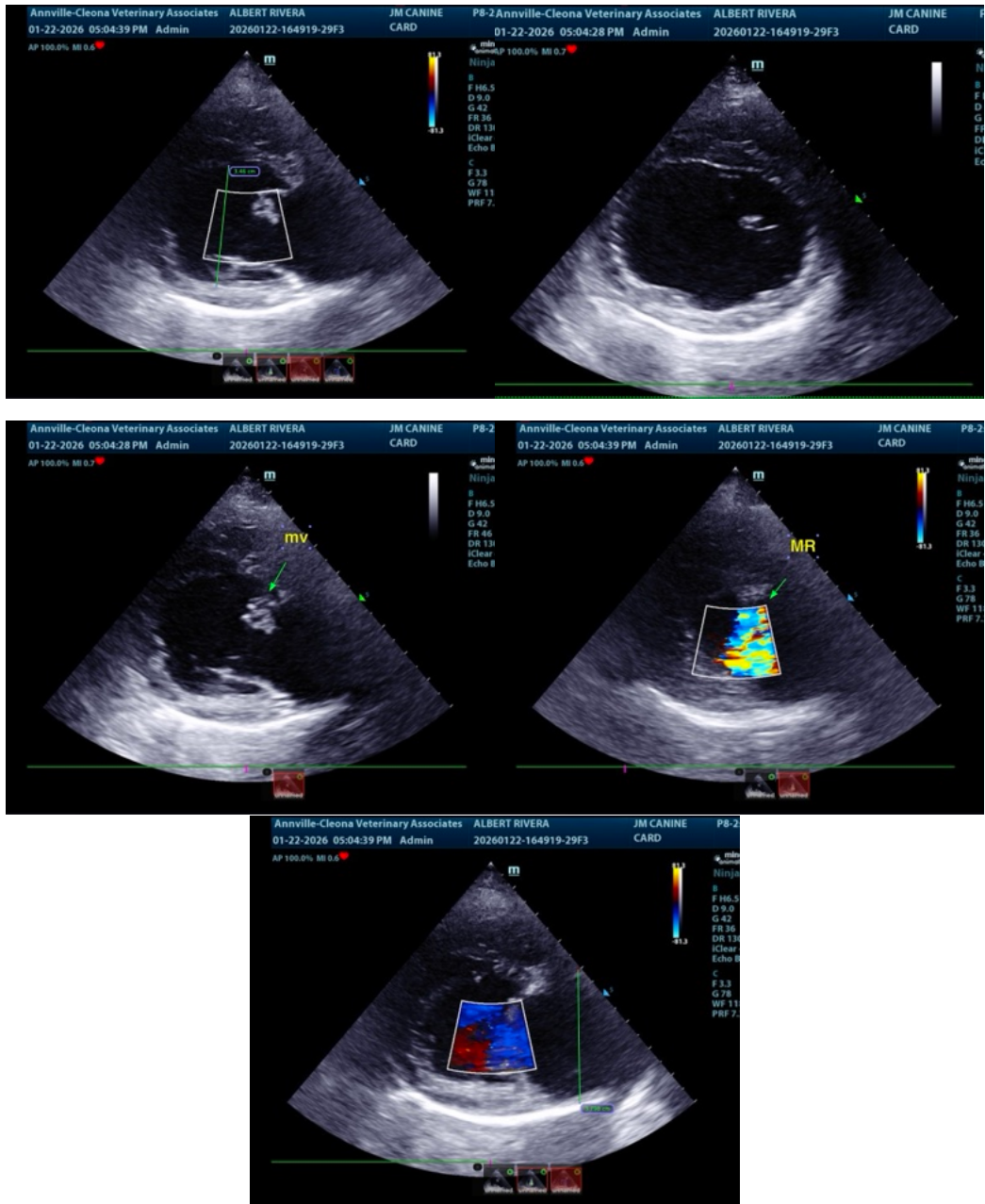
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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

I recommend continuation with the Lasix, Enalapril and Vetmedin treatment. I recommend adding Spironolactone at 1-2 mg/kg s.i.d., cough suppressant. Further increase in Lasix may be necessary. The prognosis is guarded. EKG and blood pressure measurements are indicated.



The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology



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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

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