



PATIENT

PRESENTING CLINICAL SIGNS

Leroy Brasch

Was seen at ER hospital on 9/24 for sudden change in breathing. Had a pericardiocentesis performed, but unable to get records. It was recommended dog have full echo.

SPECIES

Abnormal PE/Chem/CBC/UA Results: Heart murmur grade 3/6. Mild tachypnea. 3 view thoracic radiographs show mild pleural effusion in left hemithorax. BCS 6/9. Mild dental disease.

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

BREED

Cocker/Cavalier Mix

SEX

MN

AGE

10yr

WEIGHT

14kg

| 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 | 5.5 | 2.4 | 1.3 | 1.6 | 50 | | |
| 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 | | 1.8 | 1.3 | | 3.1 | 2.7 | |

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

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 mild to moderate eccentric 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. 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 valvular assessment demonstrated insufficiency noted at 2.4 m/s. 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). Pleural effusion noted with echogenic debris.

IMAGING PERFORMED BY
Dr. Stegemoller

HOSPITAL NAME

North Idaho Animal
Hospital

REFERRING VET

Dr. Stegemoller

ULTRASONOGRAPHIC FINDINGS

- Stage B1 valvular disease
- Mitral and tricuspid insufficiency
- Pleural effusion

INVOICE

11704ag

DATE

09/26/2022

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS



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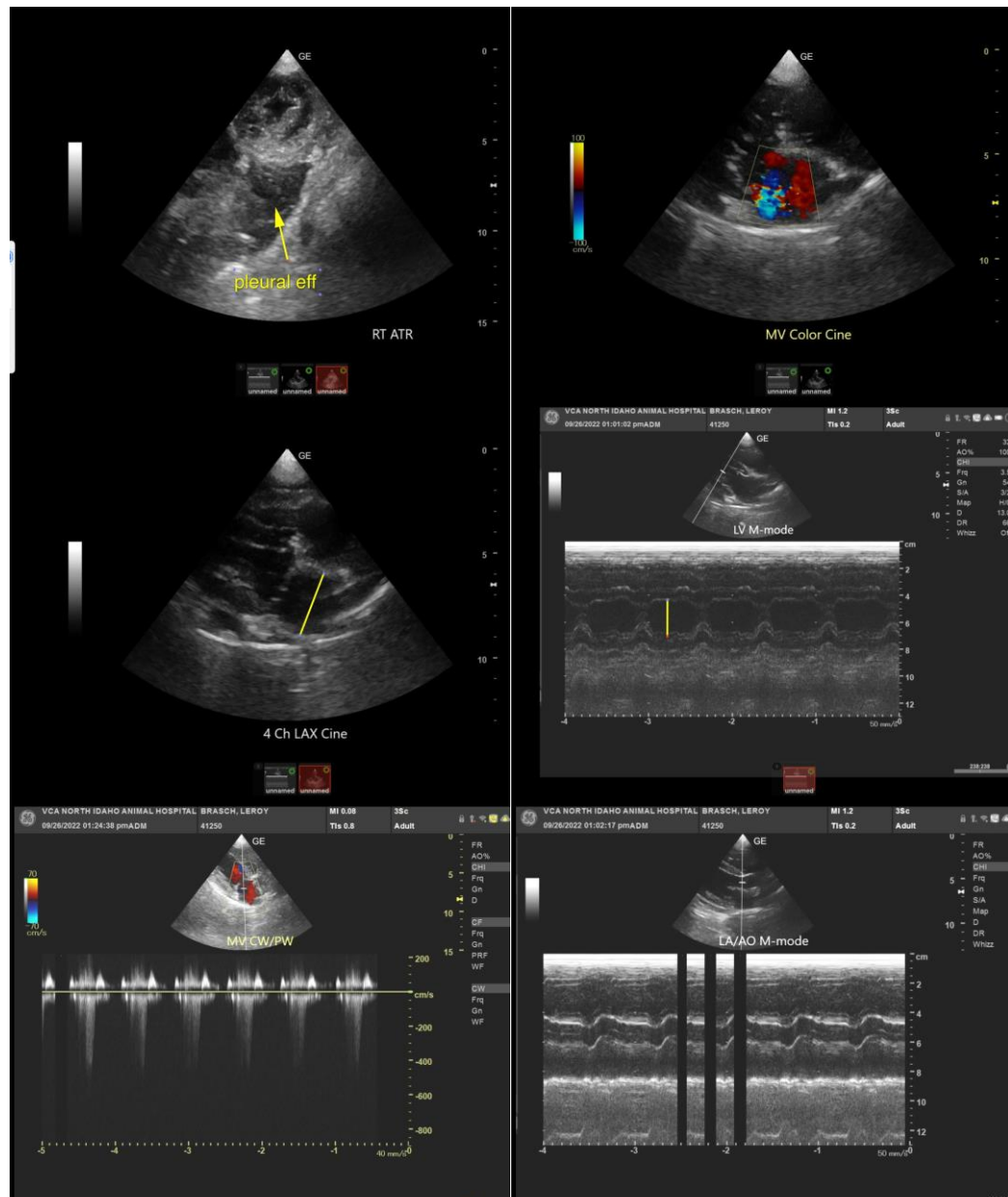
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The heart is stable without clinical disease. No overt contraindication for anesthesia of brief to moderate duration. I suggest Torbutrol premed, Propofol induction, Isoflurane maintenance or similar protocol if anesthesia is desired. Blood pressure 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.

Pleural effusion cytospin analysis is warranted. A chest CT would be ideal for further assessment. An abdominal ultrasound is suggested to assess for comorbidities.





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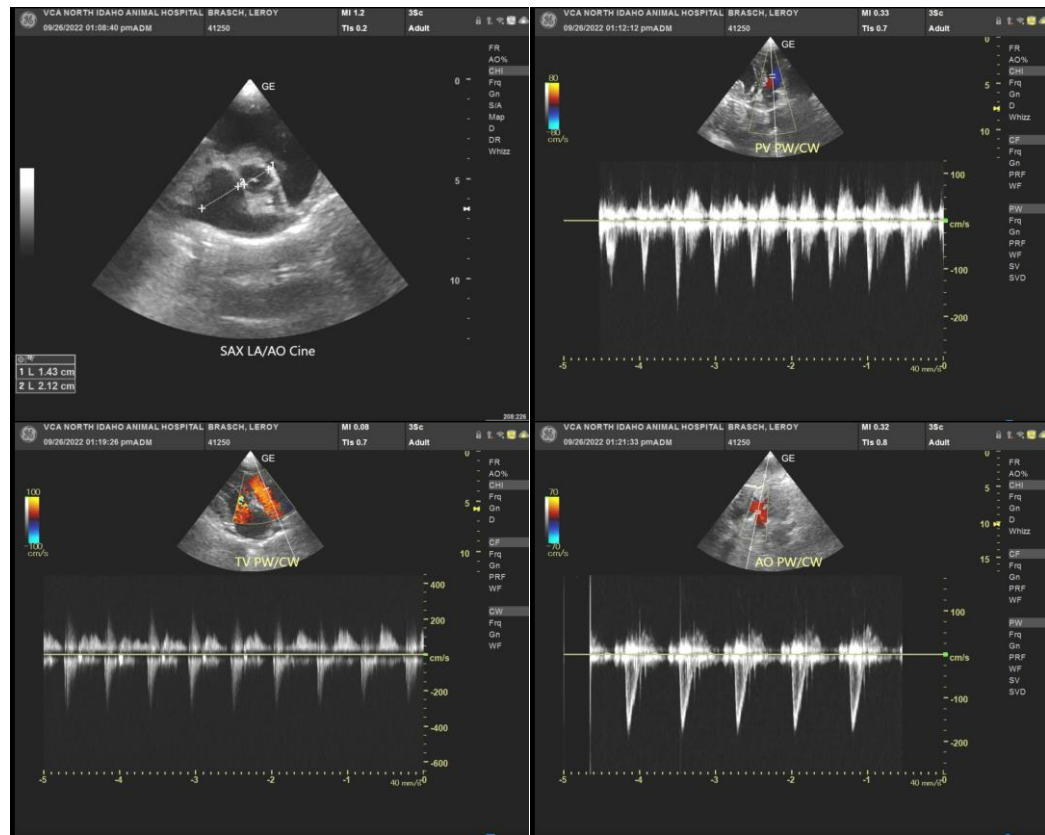
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

IMAGING PERFORMED BY

Dr. Stegemoller

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.

HOSPITAL NAME

North Idaho Animal
Hospital

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Eric.Lindquist@SonoPath.com

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Dr. Stegemoller

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