


PATIENT PRESENTING CLINICAL SIGNS

Charlotte Koroush

Honking cough, further evaluation of cardiac disease needed. 162 HR, 30 RR Current Medications Cough tablets Primary Question/Differential to Be Answered in This Exam Further evaluation of cardiac disease to determine if patient can be put under anesthesia for dental work.

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

| BREED | CANINE CARDIAC PARAMETERS | MR VMAX (m/s) | TR VMAX (m/s) | LA/AO (Boon method) | LA/AO (Heart Base; Swe) | FS (%) | EF (%) | EPSS (cm) |
|-------------|---------------------------|---------------|---------------|---------------------|-------------------------|---------------------------------|--|--|
| Terrier Mix | | | | | | | | |
| SEX | NORMAL PARAMETER | 4.5-5.5 | <2.7 | 1.3 | <1.3 | 28-40 | 40-100 | <0.6 |
| FS | PATIENT | 6.0 | 3.5 | | 3.0 | 43 | 78 | 0.28 |
| AGE | 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) |
| 10yr | | | | | | | | |
| WEIGHT | NORMAL PARAMETER | 50-100 | 0.7-1.7 | 0.7-1.6 | | | | |
| 14.5lb | PATIENT | 229 | 1.0 | 1.1 | | 4.6 | 3.5 | |

INTERPRETED BY

 R. McKenzie Daniel,
 DVM, DABVP
 (Canine and Feline)

Cardiac Presentation

Mild to moderate thickening of the mitral valve leaflet without overt evidence of valvular prolapse was present. Severe eccentric mitral regurgitation and marked left atrial dilation with bulbous left atrial appearance was present. Concurrent dilated left ventricle diameter with adequate contractility was present. Increased sphericity of the LV was noted. The tricuspid valve appeared mildly thickened with mild to moderate TR on Doppler. Mild right atrial dilation with subjective normal right ventricle volume was present. Normal appearing pulmonic and aortic valves with normal measured pulmonic and aortic outflow velocities was present. No evidence of aortic or pulmonic insufficiency.

IMAGING PERFORMED BY

Jenna Walsh CVT

HOSPITAL NAME

 Countryside Animal
 Clinic

No evidence of pericardial or pleural effusion. No cardiac tumors observed. Tachycardia was present. A brief sonographic assessment of the liver revealed possible evidence of early congestive criteria without evidence of cranial abdominal ascites. Subjective transdiaphragmatic comet tail artefact was present.

REFERRING VET

Dr. Cox

ULTRASONOGRAPHIC FINDINGS

- Chronic mitral valve disease with severe left heart volume overload.
- Pulmonary hypertension.
- Tachycardia.

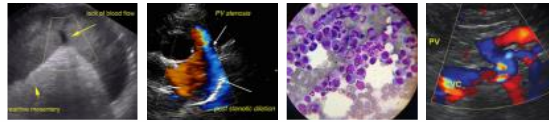
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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS
DATE

04/14/2023

ECG assessment is recommended to evaluate for evidence of atrial fibrillation as the left sided structural disease predisposes to pulmonary edema while the tachycardia may potentially predispose to right sided congestion. The coughing in this patient may be secondary to left sided cardiac



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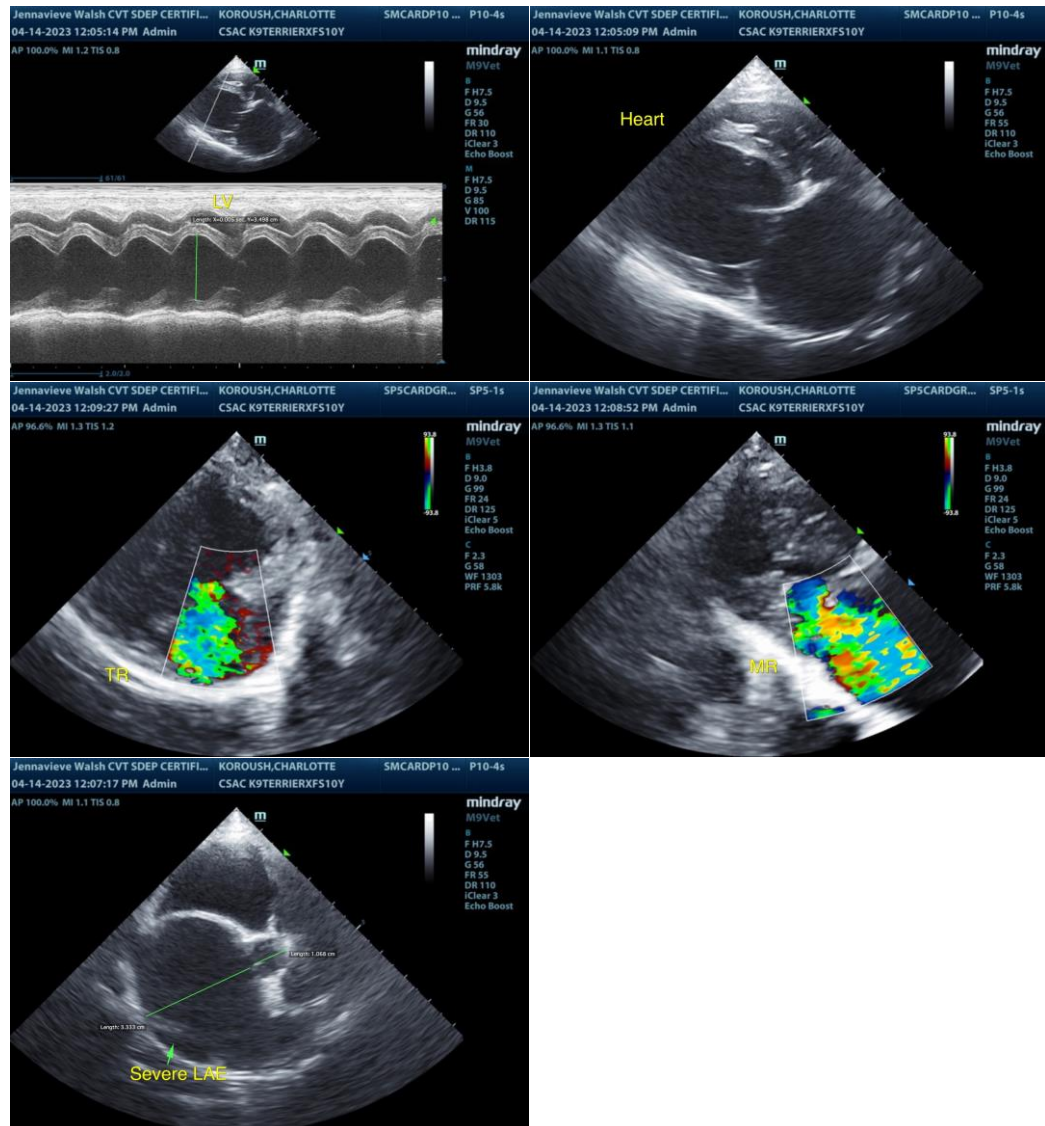
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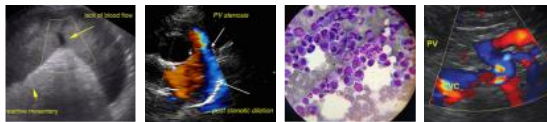
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congestion with contributing factors potentially including mainstem bronchi irritation/compression owing to severe LA enlargement and/or concurrent primarily lower airway disease.

Consider hospitalization for IV diuretic/rate control therapy pending ECG analysis. Pimobendan 0.3 mg/kg PO BID, combination Lasix/spironolactone both 1-2 mg/kg PO BID and rate control therapy is recommended. Monitoring of systemic BP, renal parameters and resting respiration rate is advised. Exercise restriction is recommended. Log term prognosis is extremely guarded to potentially poor pending response to initiation of cardiac therapy as this patient will be at increased risk for episodes of CHF, malignant arrhythmias +/- sudden death.

Anesthesia is not recommended. Recheck echocardiogram recommended in 4-6 weeks, sooner if clinically indicated.





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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.

SPECIES

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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.

BREED

Terrier Mix

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SEX

FS

info@SonoPath.com

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