



PATIENT

Minnie Gorgone

SPECIES

Canine

BREED

Chihuahua

SEX

Female Spayed

AGE

14 years

WEIGHT

6.19lbs

PRESENTING CLINICAL SIGNS

History: Minnie was adopted in 2019. A heart murmur was noted at that time. She is doing well at home, somewhat active. No exercise intolerance, labored breathing or collapse. Owner noted she does cough (history collapsing trachea). Significant dental disease. On exam: NSR, grade IV/VI murmur with PMI left apical area radiating to right, PSS, lung fields clear, mm pink, moist, CRT<2. BP: 90-100mmHg. Currently, no medicines *Sedated with propofol for study.

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and Doppler imaging is available.

Left ventricle: Mild LV dilation with hyperdynamic myocardial function.

Left atrium: The left atrium is severely dilated.

Mitral valve: Diffuse thickening of mitral valve leaflets with marked prolapse into the left atrial lumen. Severe eccentric mitral regurgitation, normal velocity.

Aortic valve/Aorta: The aortic valve is normal in morphology and mobility. Normal aortic outflow velocity; laminar flow. No aortic insufficiency.

Right ventricle: Mild RV dilation.

Right atrium: Mild RA dilation.

Tricuspid valve: The tricuspid valve appears severely thickened with significant prolapse with mild double jet of tricuspid regurgitation. TR velocity is elevated consistent with mild to moderate pulmonary hypertension.

Pulmonic valve/Pulmonary artery: The pulmonic valve is normal in morphology and mobility. Normal pulmonic outflow velocities. No pulmonic insufficiency.

Pericardium/other: No pericardial or pleural effusion noted. No obvious cardiac masses.

Heart rhythm: ECG reveals a sinus rhythm with an average HR of 120bpm.

INTERPRETED BY

Maggie Machen
Lamy, DVM
DACVIM (Cardiology)

2-Dimensional Measurements

| | |
|--------------------|-----|
| Ao diam (cm) | 1.1 |
| LA diam (cm) | 2.5 |
| LA:Ao (Swe) | 2.4 |
| IVS thickness (cm) | 0.5 |
| LVID diastole (cm) | 2.5 |
| PW thickness (cm) | 0.6 |
| LVID systole (cm) | 1.0 |
| FS (%) | 60 |

Doppler Measurements

| | |
|----------------|-----|
| PV Vmax (m/s) | 0.6 |
| AoV Vmax (m/s) | 0.6 |
| MR Vmax (m/s) | 4.5 |
| TR Vmax (m/s) | 3.5 |
| TR PG (mmHg) | 50 |

IMAGING

PERFORMED BY

Pamela Harrigan,
RDCS

HOSPITAL NAME

Mass Veterinary Services

REFERRING VET

Dr. Masloski

INTERPRETATION OF THE FINDINGS

The murmur is due to chronic degenerative valve disease causing severe mitral and mild tricuspid regurgitation. Severe left atrial and ventricular enlargement indicate the risk for spontaneous congestive heart failure is elevated. Mild to moderate pulmonary hypertension is noted, which is likely secondary to a reported cough and elevated LA pressure. No obvious additional issues such as systolic dysfunction are noted.

A cough in this patient with severe heart disease is likely multi-factorial in origin, including mainstem bronchi compression and/or potentially some degree of upper or lower airway disease. Early CHF/pulmonary edema should also be considered; however, this is less likely based upon the reported history (nocturnal, no change in RR/RE). Recommend institute Pimobendan and Spironolactone and advise close monitoring at home for need for Lasix therapy. An ACE-I should not be utilized due to hypotension. Pending response, cough suppression (up to q4-6 hours) may also be helpful for mechanical cough.

INVOICE

29926

DATE

3/29/23



PATIENT
Minnie Gorgone

Monitoring of sleeping breathing rates is recommended as the best way to screen for CHF at home.

SPECIES
Canine

Pulmonary hypertension of this degree does not necessarily require medication with sildenafil prior to associated symptoms. Monitoring for symptoms of progressive pulmonary hypertension are recommended, including exertional collapse/dyspnea. Should these develop I would not hesitate to institute sildenafil, however I am hopefully that the recommended medications will help stabilize this pathology as well. Adequate cough suppression is also of the utmost importance, utilizing hydrocodone.

BREED
Chihuahua

Long term prognosis is guarded to poor, however I am hopeful we can stabilize the patient for some time on medications. Once CHF develops, they are generally able to maintain a good quality of life for an average of 8-12 months. Patient will always be at risk for progression to CHF, development of arrhythmias/LA tear, syncope and/or sudden death in the future.

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RECOMMENDATIONS

- Institute Pimobendan 0.3mg/kg PO q12h.
- Institute Spironolactone 1-2mg/kg PO q12h.
- Consider hydrocodone with homatropine for QOL (0.2-0.4mg/kg PO up to q4-6 hours PRN for cough; available in 5/1.5mg tabs and 5mg/5ml liquid suspension).
- If symptoms of progressive PAH develop institute sildenafil 1-2mg/kg PO q12h.
- Elective anesthesia is not advised.
- Omega fatty acid supplementation and mild salt restriction may be of some long-term benefit.
- Monitor for development of a cough, labored breathing, exercise intolerance or collapse episodes. Monitoring of sleeping breathing rates is the best way to screen for progression to CHF at home.

WEIGHT
6.19lbs

INTERPRETED BY

Maggie Machen
Lamy, DVM
DACVIM (Cardiology)

PLAN

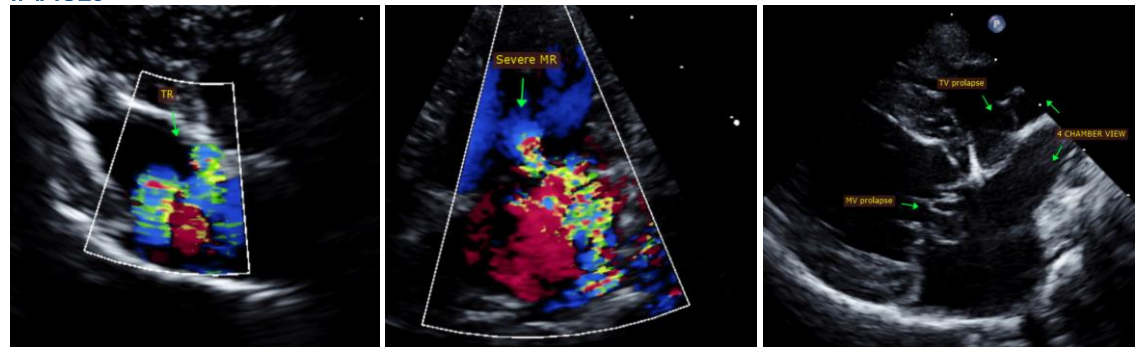
- A renal panel is recommended in 1-2 weeks, then every 3-4 months lifelong.
- A recheck echocardiogram is recommended in 4-6 months to screen for progression, sooner if clinical signs arise.

IMAGING PERFORMED BY
Pamela Harrigan,
RDCS

IMAGES

HOSPITAL NAME
Mass Veterinary Services

REFERRING VET
Dr. Masloski

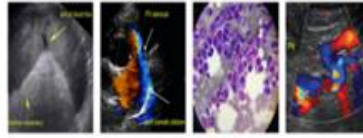


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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

SPECIES

Canine

Thank you for this referral. This report was generated using transcription software, and minor dictation errors may be present. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance, please contact me.

BREED

Chihuahua

Maggie Machen Lamy, DVM
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SEX

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Echocardiogram performed by: Pamela Harrigan, RDCS
Pet Animal Ultrasound Service (4paus.com)

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