



PATIENT

Penny Moiser

PRESENTING CLINICAL SIGNS

History: Patient with previous cough (now resolved), presents for a grade 1/6 systolic murmur. No current meds.

SPECIES

Canine

BREED

Pug

SEX

Neutered male

AGE

6 years

WEIGHT

28.6 lbs

INTERPRETED BY

Eric Lindquist, DMV,
DABVP, Cert. IVUSS,
CEO of SonoPath.com

IMAGING PERFORMED BY

Kelly Vazquez, CVT

HOSPITAL NAME

Veterinary Wellness
Center

REFERRING VET

Dr. Sepulveda

INVOICE

32494

DATE

8/23/22

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The **echocardiogram** presented a prominent **right heart** with mild **right ventricular** hypertrophy, with minor **tricuspid** regurgitation, yet normal **right atrial** size. No evidence of neoplasia was noted in the right auricle, or elsewhere in the heart. The **pulmonary artery** was uniformly prominent with mildly depressed pulmonic velocity measured on PW Doppler. No overt heartworms were noted in the main or visible deep pulmonary arteries. Yet, theoretically heartworms could be present in the deep pulmonary vasculature out of visible sonographic range. More likely, however, this prominent right heart is due to excessive intra-thoracic pressures caused by chronic respiratory disease or potentially excessive intra-thoracic fat (Pickwickian syndrome). The **left heart** demonstrated a linear **ventricular septum**. Contractility was functionally adequate demonstrated by the FS% measurement. The **mitral valve** was not significantly insufficient and no significant **left atrial** dilation was noted. The **left ventricular outflow** demonstrated normal flow patterns and velocities through the aortic valve. No evidence of tumor, pericardial or pleural effusion was noted. The visible **extra-cardiac** tissues were uniformly linear without evidence of masses, infiltrative or inflammatory mediastinal tissue. No evident arrhythmic activity was noted during the exam.

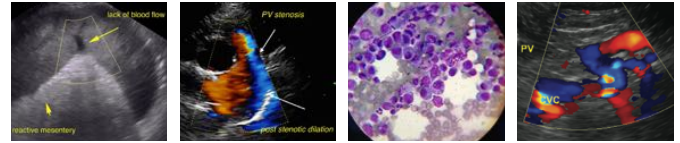
| CANINE CARDIAC PARAMETERS | MR VMAX (m/s) | TR VMAX (m/s) | LA/AO (Boon method) | LA/AO (Heart Base; Swe) | FS (%) | EF (%) | EPSS (cm) |
|---------------------------|---------------|---------------|---------------------|-------------------------|-----------------------------------|--|--|
| NORMAL PARAMETER | 4.5-5.5 | <2.7 | 1.3 | <1.6 | 28-40 | 40-100 | <0.6 |
| PATIENT | | 1.5 | 1.3 | 1.3 | 30 | 60 | 0.34 |
| 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 | 125 | 1.38 | 1.09 | 28.6 lbs | 2.17 | 22.52 | |

ULTRASONOGRAPHIC FINDINGS

Cor pulmonale.

Minor tricuspid insufficiency.

Trivial and eccentric mitral insufficiency, not clinically significant.



PATIENT

Penny Moiser

SPECIES

Canine

BREED

Pug

SEX

Neutered male

AGE

6 years

WEIGHT

28.6 lbs

INTERPRETED BY

Eric Lindquist, DMV,
DABVP, Cert. IVUSS,
CEO of SonoPath.com

IMAGING PERFORMED BY

Kelly Vazquez, CVT

HOSPITAL NAME

Veterinary Wellness
Center

REFERRING VET

Dr. Sepulveda

INVOICE

32494

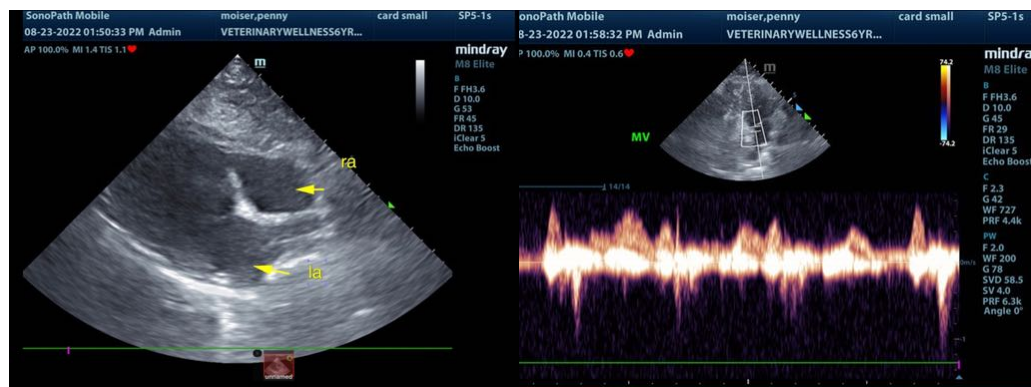
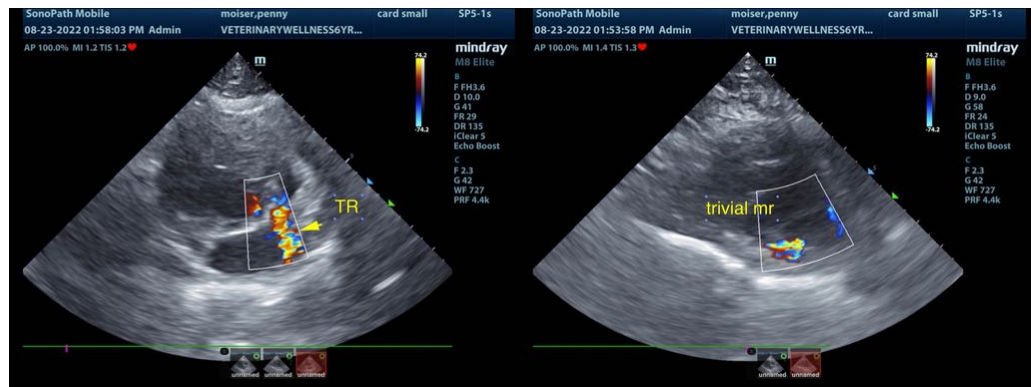
DATE

8/23/22

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The cough is non-cardiogenic in this patient. Slight right atrial enlargement with a 1:1 right atrial to left atrial ratio. This is largely a conformational issue, but may be related to primary respiratory disease. The cough is non-cardiogenic at this time.

The heart is stable without clinical disease. No overt contraindication for anesthesia of brief to moderate duration. I suggest Torbutrol premed, Propofol induction, Isoflor 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

Penny Moiser

SPECIES

Canine

BREED

Pug

SEX

Neutered male

AGE

6 years

WEIGHT

28.6 lbs

INTERPRETED BY

Eric Lindquist, DMV,
DABVP, Cert. IVUSS,
CEO of SonoPath.com

**IMAGING
PERFORMED BY**

Kelly Vazquez, CVT

HOSPITAL NAME

Veterinary Wellness
Center

REFERRING VET

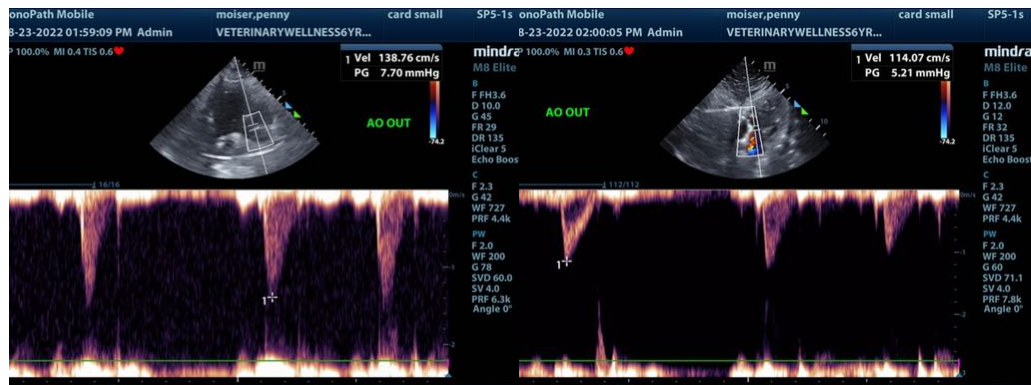
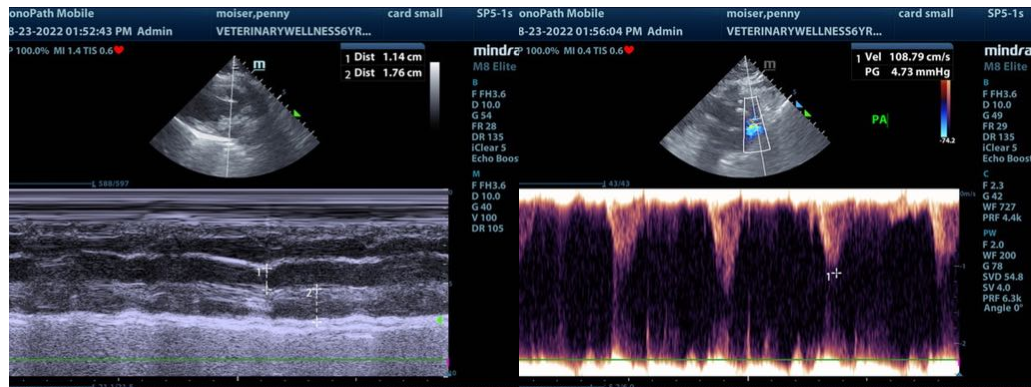
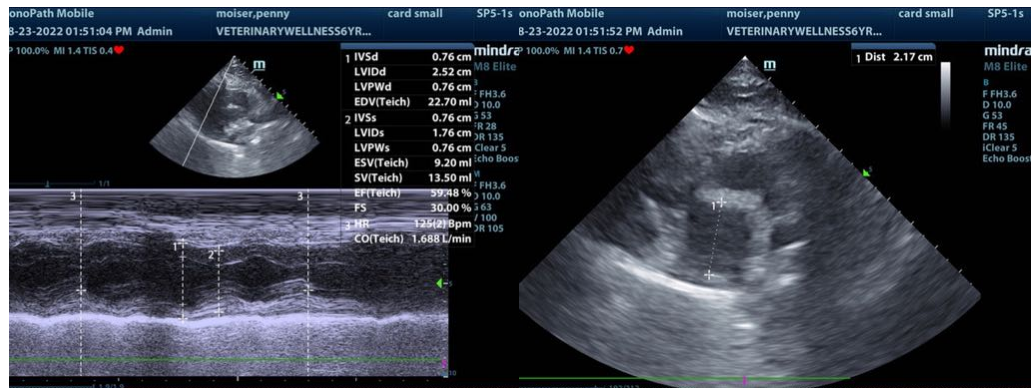
Dr. Sepulveda

INVOICE

32494

DATE

8/23/22

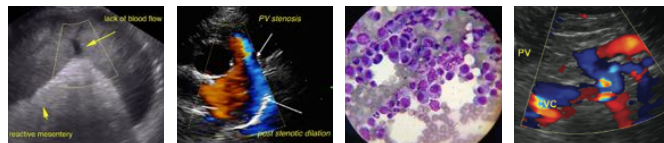


The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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



PATIENT

Penny Moiser

SPECIES

Canine

BREED

Pug

SEX

Neutered male

AGE

6 years

WEIGHT

28.6 lbs

INTERPRETED BY

Eric Lindquist, DMV,
DABVP, Cert. IVUSS,
CEO of SonoPath.com

**IMAGING
PERFORMED BY**

Kelly Vazquez, CVT

HOSPITAL NAME

Veterinary Wellness
Center

REFERRING VET

Dr. Sepulveda

INVOICE

32494

DATE

8/23/22