

PATIENT

Harley Melna

SPECIES

Feline

BREED

Domestic Shorthair

SEX

Neutered male

AGE

15 years

WEIGHT

6.14 kg

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Kelly Reshny, RVT

HOSPITAL NAME

Hartzel AH

REFERRING VET

Dr. Morris

INVOICE

43129

DATE

12/15/22

PRESENTING CLINICAL SIGNS

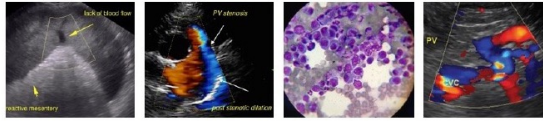
History: grade 2 right sided parasternal murmur, first heart nov 21/22, reg rhythm when away, arrhythmia under GA-inverted P waves, QRS complexes varying in size r/o VPCs, no response to lidocaine, irregular HR, varies from 70-120, not consistent with breathing meds: budesonide
Abnormal PE/Chem/CBC/UA Results: BW-WNL

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The echocardiogram in this patient demonstrated normal **left atrial** size and structure with no evidence of "smoke" or thrombi. The cranial and caudal **mitral** valve leaflets appeared mildly thickened with some insufficiency noted on Doppler. The **left ventricle** presented mild **myocardial** remodeling and minor centric hypertrophy. The **left ventricular outflow** tract demonstrated turbulent laminar flow. Subjective assessment of the **right atrium** and auricle revealed normal size, structure and content. No evidence of masses was noted. **Tricuspid** valvular assessment demonstrated linear morphology. The **right ventricle** was of normal size with normal chordae structure, myocardial echogenicity and thickness. **Pulmonic** tract assessment revealed normal valve structure, laminar flow, and diameter. No visible **pericardial** or free pleura fluid was noted. No echographically detectable evidence of infiltrative disease was visible. The **mediastinum** was free of masses in the visible window.

| FELINE CARDIAC PARAMETERS | BODY WEIGHT (kg) | HR (BPM) | IVSd (cm) | LVIDd (cm) | LVWd (cm) | FS (%) | EF (%) |
|---------------------------|------------------|---------------------------|--|-----------------|-----------------|-----------|--------|
| NORMAL PARAMETER | ----- | 150-240 | 0.3-0.6 | 1.0-2.1 | 0.25-0.6 | 35-67 | 80-100 |
| PATIENT | 6.14 kg | 220 | 0.78 | 1.40.63 | | 67 | 95 |
| FELINE CARDIAC PARAMETERS | LA/AO (Boon) | LA/AO HEART BASE (Sisson) | LA 2D 4-chamber long axis AS to FW (Sisson) (cm) | LVOT VEL. (m/s) | RVOT VEL. (m/s) | IVRT (m/) | |
| NORMAL PARAMETER | <1.5 | 0.88-1.79 | 0.7-1.7 | <1.6 | <1.3 | 40-60 | |
| PATIENT | 1.0 | 1.3 | 1.3 | WNL | 1.25 | NM | |

Adapted from June Boon, Veterinary Echocardiography, 1998
Sisson D et al. JVIM 1991; 5: 232, Jacobs et al. Am J Vet Res 1985; 46:1705



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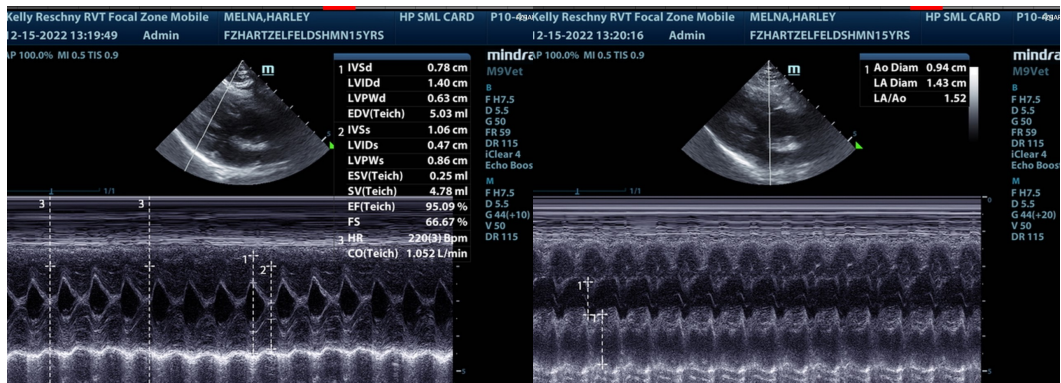
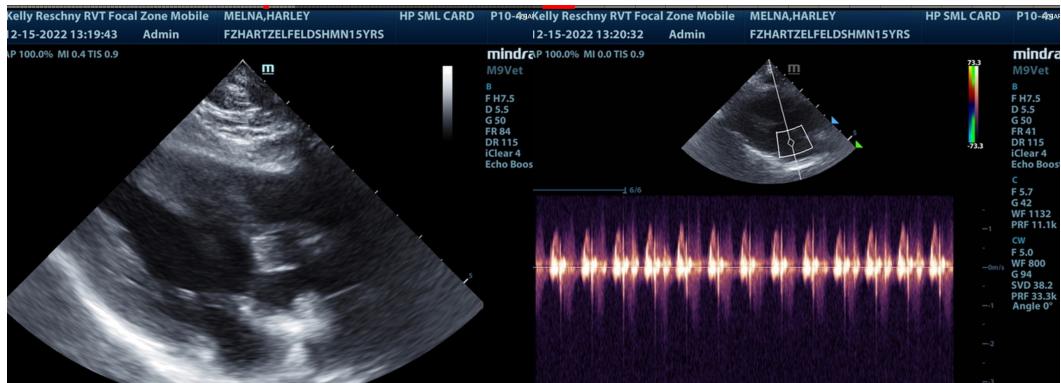
12/15/22

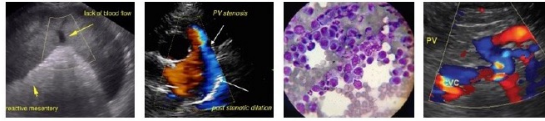
ULTRASONOGRAPHIC FINDINGS

Minor left ventricular hypertrophy with myocardial remodeling and compensated mitral insufficiency, not clinically significant.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

This is consistent with HCM phenotype; however, systemic volume contraction, hypertension and hyperthyroidism are all potentials that will create a benign left ventricular hypertrophy as we see in this patient. Systemic disease should be evaluated if not already performed. No cardiac therapy is recommended in this patient. Assessment for systemic disease is indicated.





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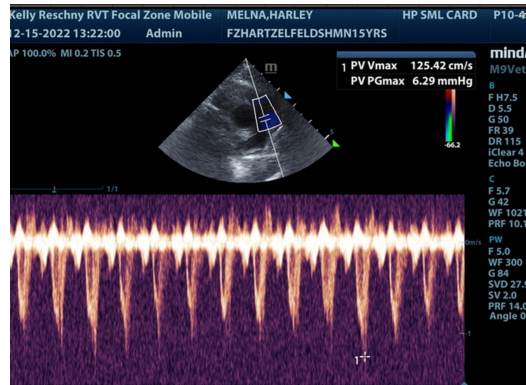
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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
Eric.Lindquist@SonoPath.com

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