



## PATIENT

Petunia Howell

## SPECIES

Feline

## BREED

DMH

## SEX

Spayed Female

## AGE

7 Years

## WEIGHT

9.3

## INTERPRETED BY

Eric Lindquist, DMV,  
DABVP (Canine &  
Feline), Cert. IVUSS

## IMAGING PERFORMED BY

Dr. Annette Anleu

## HOSPITAL NAME

Ellwood AH

## REFERRING VET

Dr. Daniel Jones

## INVOICE

35684

## DATE

2/2/26

## PRESENTING CLINICAL SIGNS

- Pet has hx of heart murmur, had been grade 2/6 for the past three years, but recently developed into a grade 5/6 heart murmur.
- CardioPetProBNP is elevated at 657 (0-100 being normal).
- Pet was sedated for the echocardiogram with midazolam, butorphanol, and isoflurine.
- If medications are recommended, please prioritize order of importance, as pet is difficult to medicate.
- Abnormal PE/Chem/CBC/UA Results: CardioPetProBNP is elevated at 657 (0-100 being normal).

## ULTRASONOGRAPHIC EXAMINATION OF THE HEART

FELINE CARDIAC PARAMETERS	BODY WEIGHT	HR (BPM)	IVSd (cm)	LVIDd (cm)	LVWd (cm)	FS (%)	EF (%)
<b>NORMAL PARAMETER</b>	-----	150-240	0.3-0.6	1.0-2.1	0.25-0.6	35-67	80-100
<b>PATIENT</b>	9.3	130	0.56	1.8	0.4	46	81
FELINE CARDIAC PARAMETERS	LA/AO (M-mode)	LA/AO HEART BASE (Sisson)	LAD LA MAX 4 Chamber		LVOT VEL. (m/s)	RVOT VEL. (m/s)	IVRT (m/)
<b>NORMAL PARAMETER</b>	<1.5	1.6	0.7-1.7		<1.6	<1.3	40-60
<b>PATIENT</b>		1.8	2.1				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

MR VMAX: >4.0 m/s, EPSS: 0.2

## Cardiac Presentation

The cardiac presentation in this patient presented mitral insufficiency and volume overload of the left atrium and left ventricle. Mitral valve was thickened and slightly vegetative. Myocardial remodeling was noted in this patient. Contractility appeared to be adequate. The right atrium and right ventricle were unremarkable. No pericardial or pleural effusion were noted. Heart rate was subnormal. No smoke or clots were noted in the left atrium, however, given its excessive size, predisposition to clot formation is present.

## ULTRASONOGRAPHIC FINDINGS



**PATIENT**

Petunia Howell

**SPECIES**

Feline

**BREED**

DMH

**SEX**

Spayed Female

**AGE**

7 Years

**WEIGHT**

9.3

**INTERPRETED BY**

Eric Lindquist, DMV,  
DABVP (Canine &  
Feline), Cert. IVUSS

**IMAGING  
PERFORMED BY**

Dr. Annette Anleu

**HOSPITAL NAME**

Ellwood AH

**REFERRING VET**

Dr. Daniel Jones

**INVOICE**

35684

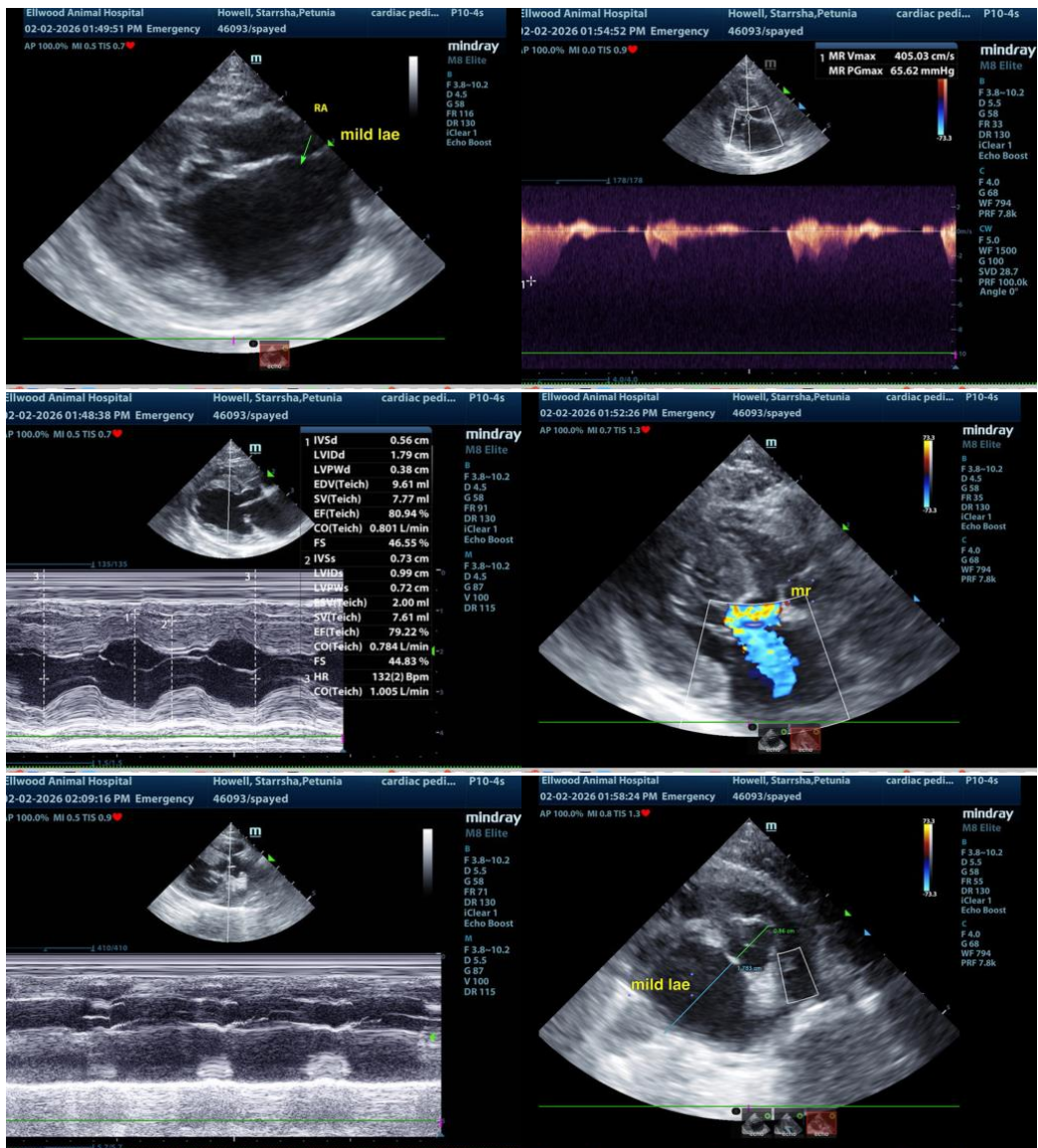
**DATE**

2/2/26

- Unclassified cardiomyopathy
- Mitral insufficiency
- Volume overload of the left atrium and left ventricle

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Recommend initiating pimobendan at a dose of 0.3 mg/kg BID, ACE inhibitor at a dose of 0.5 mg/kg SID, and Plavix therapy is indicated. If any pulmonary edema is present, then Lasix therapy is indicated. EKG is warranted to ensure bradyarrhythmia is not an issue, as well as blood pressure measurements. The bradycardia is likely owing to sedation in this patient and may be affecting some contractility yet minimally. Recheck echo in 6 months, earlier if clinical signs initiate.





## PATIENT

Petunia Howell

## SPECIES

Feline

## BREED

DMH

## SEX

Spayed Female

## AGE

7 Years

## WEIGHT

9.3

## INTERPRETED BY

Eric Lindquist, DMV,  
DABVP (Canine &  
Feline), Cert. IVUSS

## IMAGING PERFORMED BY

Dr. Annette Anleu

## HOSPITAL NAME

Ellwood AH

## REFERRING VET

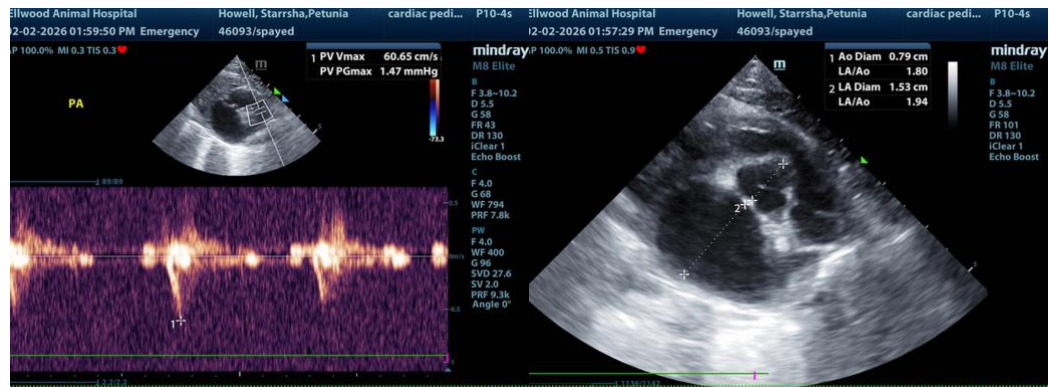
Dr. Daniel Jones

## INVOICE

35684

## DATE

2/2/26



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(CFM), Cert. IVUSS,  
CEO, Owner, Founder -- SonoPath.com  
[info@SonoPath.com](mailto:info@SonoPath.com)