



PATIENT

Llewyn Dutoit

SPECIES

Feline

BREED

Domestic Shorthair

SEX

Neutered male

AGE

6 years

WEIGHT

5.65 kg

PRESENTING CLINICAL SIGNS

Owner has noticed he is very lethargic, increased respiratory rate and not eating/drinking as much
 Abnormal PE/Chem/CBC/UA Results: Grade 3/6 AV murmur, PMI left hemithorax CBC bands suspected CHEM stress hyperglycemia Snap BNP = abnormal

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. Fairly centralized insufficiency jet was noted and compensated. Mitral insufficiency velocity measured 4.56 m/sec. The **left ventricle** presented excessive free wall and septal thicknesses with hypertrophic thicknesses compared to normal for this species. The **myocardium** presented essentially normal echogenicity without immediate signs of fibrotic or ischemic disease. **Contractility** of the ventricular walls was considered excessive for this patient evidenced by the elevated fractional shortening measurement. The **left ventricular outflow** tract demonstrated turbulent laminar flow. Dynamic obstruction of the left ventricular outflow tract appeared to be present with mitral insufficiency and turbulence of the LVOT. 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.

INTERPRETED BY

Eric Lindquist, DMV
 DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Barnes

HOSPITAL NAME

Westview VH

REFERRING VET

Dr. Barnes

INVOICE

95305

DATE

1/17/22

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	5.65	NM	0.86	1.1	0.9	53	85
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	1.3		1.5	2.1	1.04	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							



PATIENT

ULTRASONOGRAPHIC FINDINGS

Llewyn Dutoit

Mild hypertrophic cardiomyopathy with mitral insufficiency and dynamic outflow obstruction, yet compensated. No volume overload. However, exercise intolerance may be an issue depending on the patient's history.

SPECIES

Feline

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

BREED

Domestic Shorthair

There was no evidence of heart failure in this patient as the volume is well controlled. If the clinical signs occur after exercise then Atenolol therapy can be considered at 6.25-12.5 s.i.d. to b.i.d. However, if respiratory signs are present at rest without exercise induction then primary respiratory disease should be considered. Given the anorexia abdominal sonogram and chest radiographs are recommended to assess for abdominal or pulmonary disease. A recheck echocardiogram is recommended in 6 months.

SEX

Neutered male

AGE

6 years

WEIGHT

5.65 kg

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUS

IMAGING PERFORMED BY

Dr. Barnes

HOSPITAL NAME

Westview VH

REFERRING VET

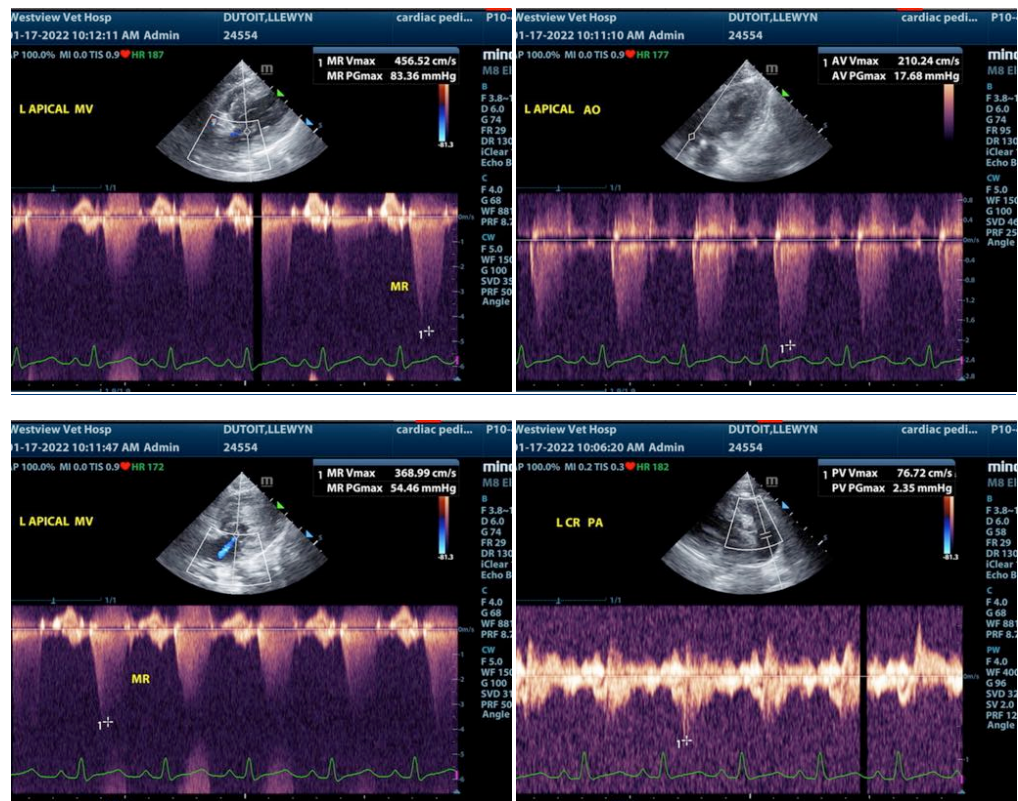
Dr. Barnes

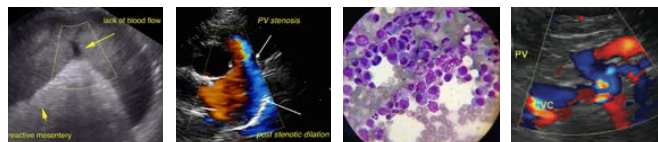
INVOICE

95305

DATE

1/17/22

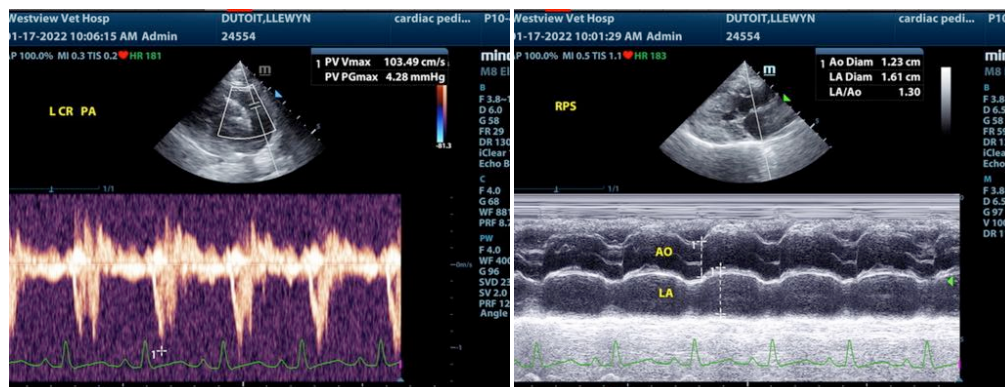




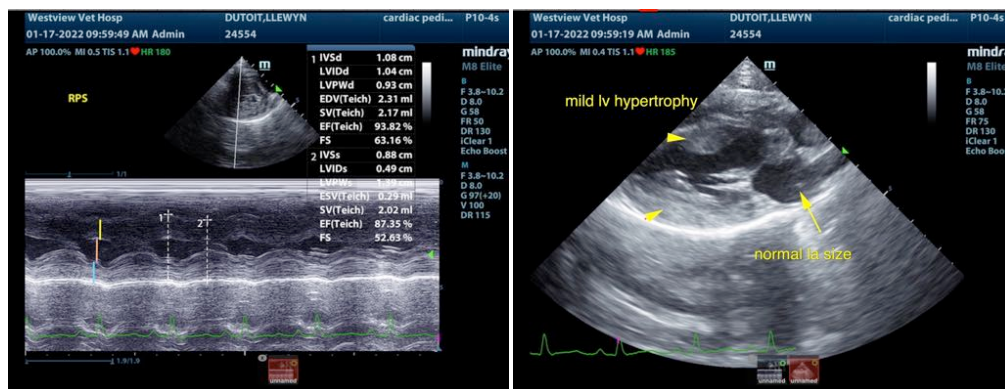
PATIENT
Llewyn Dutoit

SPECIES
Feline

BREED
Domestic Shorthair



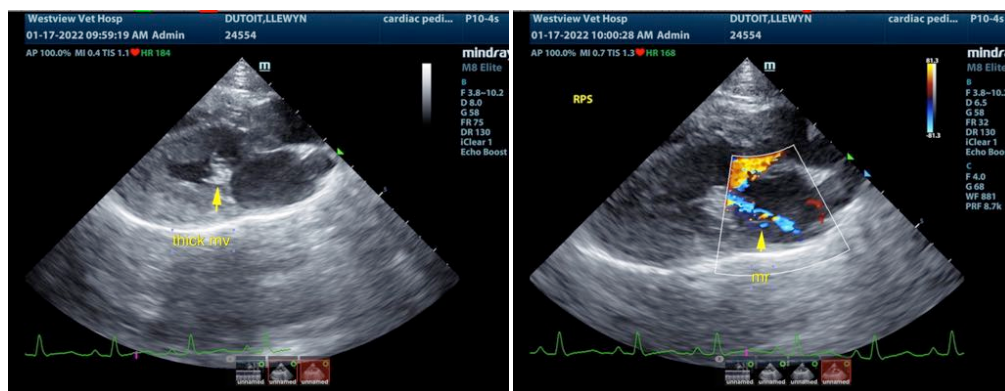
SEX
Neutered male



AGE
6 years

WEIGHT
5.65 kg

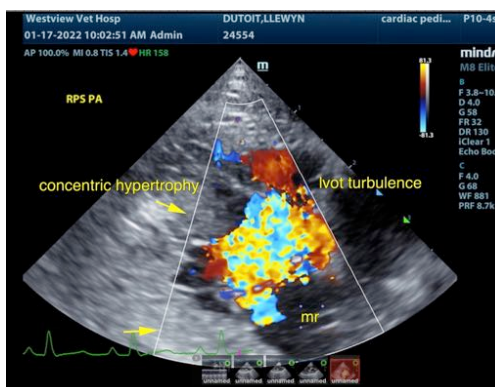
INTERPRETED BY
Eric Lindquist, DMV
DABVP, Cert. IVUSS



IMAGING PERFORMED BY
Dr. Barnes

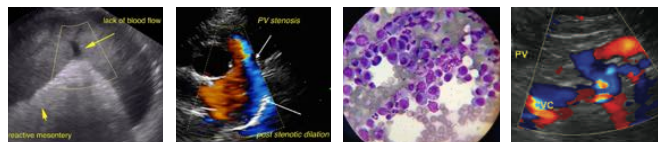
HOSPITAL NAME
Westview VH

REFERRING VET
Dr. Barnes



INVOICE
95305

DATE
1/17/22



PATIENT

Llewyn Dutoit

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

Feline

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

Domestic Shorthair

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

SEX

Neutered male

AGE

6 years

WEIGHT

5.65 kg

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

**IMAGING
PERFORMED BY**

Dr. Barnes

HOSPITAL NAME

Westview VH

REFERRING VET

Dr. Barnes

INVOICE

95305

DATE

1/17/22