



PATIENT

Sabertooth Reinhart

SPECIES

Feline

BREED

DSH

SEX

M/N

AGE

10 years

WEIGHT

16.2 lbs.

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Kelly Vazquez

HOSPITAL NAME

Sova AH

REFERRING VET

Dr. Ammeraal

INVOICE

15888

DATE

1/20/23

PRESENTING CLINICAL SIGNS

Grade 2-3/6 heart murmur. Previously diagnosed with early HCM in 2017.

No current meds.

Abnormal PE/Chem/CBC/UA Results: CBC/Chem: - all normal. U/A: pending.

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

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		125	0.53	1.9	0.44	37	74
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	1.3	1.2	1.0	1.4	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

Cardiac Presentation

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 separate LA measurements. The cranial and caudal **mitral** valve leaflets presented normal linear structure and kinetics. No overt MR was present on Doppler. The **left ventricular** septum and free wall revealed adequate contractility with borderline increased left ventricle volume. Normal to mildly echogenic myocardial echogenicity with mild a-linear myocardial contour was noted with evidence of remodeling. This does not appear to be a functional issue at this point yet may suggest some degree of **myocardial fibrosis**. Subtly prominent papillary muscles were present. The **left ventricular outflow** tract demonstrated normal laminar flow and subjective structural integrity. Normal measured LVOT velocity was noted. The **right atrium** and auricle revealed increased size and normal content. No evidence of masses was noted or chamber overload. **Tricuspid** valvular assessment demonstrated adequate linear morphology and kinetics. The **right ventricle** was of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. **Pulmonic** tract assessment revealed normal valve structure, laminar flow, and diameter (approx. 1:1 pa/ao ratio). Normal measured RVOT velocity was present. No visible **pericardial** or free pleura fluid was noted or extra cardiac pathology in the visible planes. The cranial **mediastinum and pericardial regions** were free of masses in the visible window. No arrhythmia was noted.



PATIENT

Sabertooth Reinhart

SPECIES

Feline

BREED

DSH

SEX

M/N

AGE

10 years

WEIGHT

16.2 lbs.

ULTRASONOGRAPHIC FINDINGS

- Mild LV myocardial remodeling with borderline increased LV dimension
- Adequate LV function
- Normal LA
- Normal RA/RV

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The lack of LV myocardial thickening was not overtly consistent with current HCM criteria. Potentially, progressive to emerging end-stage or worn-out HCM may present in this manner. However, the overall heart appears to be stable, given the lack of left atrium enlargement and adequate LV function. Probable benign physiologic / flow murmur, assuming no evidence of volume changes i.e., dehydration or anemia. No indication for cardiac medications, given normal LA size.

Sonographic monitoring is recommended for further prognosis. Recheck echocardiogram is suggested in 6 months, sooner if clinical signs arise.

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Kelly Vazquez

HOSPITAL NAME

Sova AH

REFERRING VET

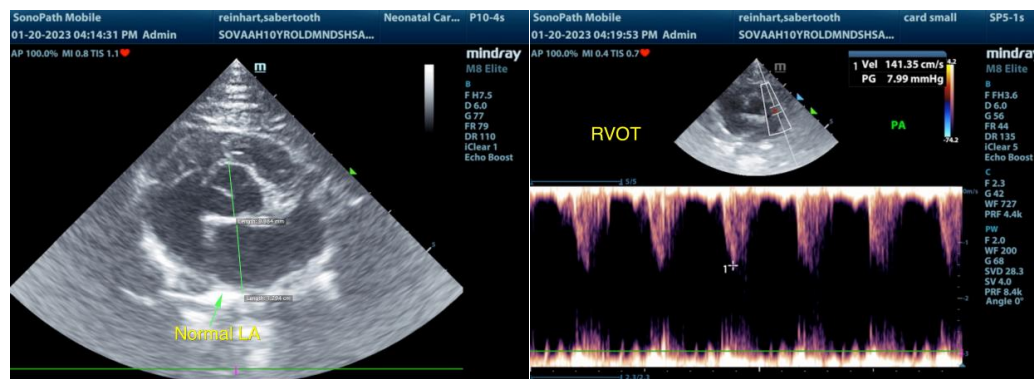
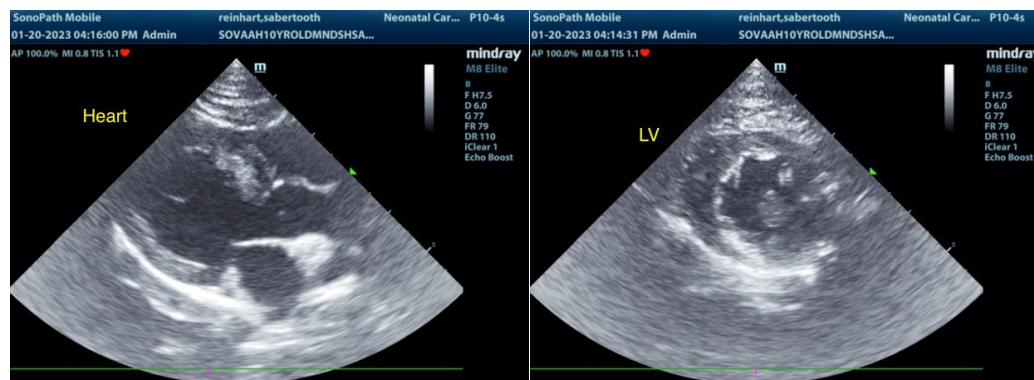
Dr. Ammeraal

INVOICE

15888

DATE

1/20/23





PATIENT

Sabertooth Reinhart

SPECIES

Feline

BREED

DSH

SEX

M/N

AGE

10 years

WEIGHT

16.2 lbs.

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Kelly Vazquez

HOSPITAL NAME

Sova AH

REFERRING VET

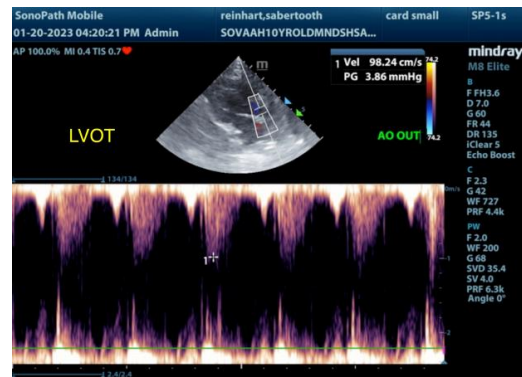
Dr. Ammeraal

INVOICE

15888

DATE

1/20/23



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.

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)
info@SonoPath.com