



PATIENT

Mittens Hashagen

SPECIES

Feline

BREED

DLH

SEX

Female Spayed

AGE

10y

WEIGHT

8.8

INTERPRETED BY

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

IMAGING PERFORMED BY

Sabrina Russett

HOSPITAL NAME

Court Street VH

REFERRING VET

Sabrina Russett

INVOICE

12918

DATE

12/11/25

PRESENTING CLINICAL SIGNS

Patient sedated with Gabapentin, Alfaxalone/Butorphanol and Dexdomitor.

History: Patient presents for echo work-up following senior screening labs; elevated Cardio Pro BNP + normal TT4 though with weight loss and increased appetite. BP (Doppler) today: 130mmHg (sedated)

Abnormal PE/Chem/CBC/UA Results: Cardio Pro BNP 178pmol/L TT4 2.7ug/dL - Free T4 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 | -- | NM | 0.53 | 1.8 | 0.46 | 20 | 40 |
| 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/) | |
| NORMAL PARAMETER | <1.5 | 1.6 | 0.7-1.7 | <1.6 | <1.3 | 40-60 | |
| PATIENT | -- | 1.2 | 1.35 | 1.0 | -- | -- | |
| 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 2 separate LA measurements. The cranial and caudal **mitral** valve leaflets presented normal linear structure and kinetics. The **left ventricle** presented normal thicknesses with linear contour and was not dilated nor restricted. The **myocardium** presented normal echogenicity without subjective evidence of significant fibrotic or ischemic disease. **Contractility** of the ventricular walls was subnormal likely secondary to sedation. The **left ventricular outflow** tract demonstrated subjective normal structural integrity. Normal measured LVOT velocity noted. The **right atrium** and auricle revealed normal size, structure and 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 overtly normal valve structure and diameter (approx. 1:1 pa/ao ratio). 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. Bradycardia secondary to sedation.

ULTRASONOGRAPHIC FINDINGS

- Normal cardiac structure with LV hypocontractility – likely secondary to sedation



PATIENT

Mittens Hashagen

SPECIES

Feline

BREED

DLH

SEX

Female Spayed

AGE

10y

WEIGHT

8.8

INTERPRETED BY

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

IMAGING PERFORMED BY

Sabrina Russett

HOSPITAL NAME

Court Street VH

REFERRING VET

Sabrina Russett

INVOICE

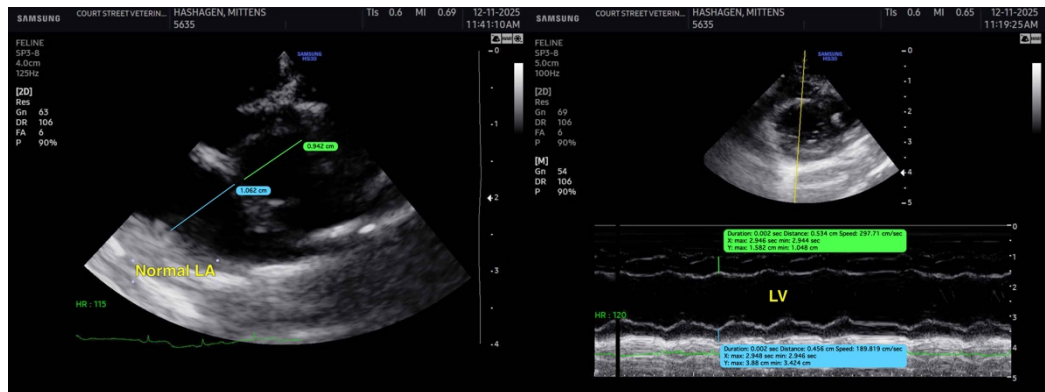
12918

DATE

12/11/25

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

No evidence of significant structural cardiomyopathy.



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