



PATIENT PRESENTING CLINICAL SIGNS

Autumn Olson History: Poss cardiac disease

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE HEART

Feline

BREED

DSH

SEX

Spayed Female

AGE

12 Years

WEIGHT

12 Pounds

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	0.46	1.47	0.49	50.3	85.3
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	1.4	1.45	1.5	NM	0.85	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 and structure. Chamber volume and blood echogenicity were normal. The cranial and caudal **mitral** valve leaflets presented minor irregular age-related changes that are not clinically significant at this time with adequate extension in systole and union in diastole. No overt evidence of systolic anterior motion (SAM) of the mitral valve. The **left ventricle** presented normal free wall and septal thicknesses with mild alinear contour. The **myocardium** presented some echogenic remodeling consistent with expected age-related change. Mildly prominent to remodeled papillary muscles were noted. **Contractility** of the ventricular walls was adequate and in normal range for this breed and patient size. The **left ventricular outflow** tract demonstrated normal laminar flow with subjectively unremarkable structure. Subjective assessment of the **right atrium** and auricle revealed normal size, structure and content. No evidence of masses was noted. **Tricuspid** valvular assessment demonstrated expected findings for this age patient. The **right ventricle** was of normal size (1/3 diameter of LV), echogenicity and thickness. **Pulmonic** tract assessment revealed normal valve structure, laminar flow, and diameter (approx. 1:1 pa/ao ratio). No dilation due to cor pulmonale or overt pulmonic hypertension was noted. No visible **pericardial** or free pleural fluid was noted. The **mediastinum** was free of masses in the visible window.

INTERPRETED BY

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

IMAGING PERFORMED BY

Hunt

HOSPITAL NAME

Bayshore VH

REFERRING VET

Dr. Tim Hunt

INVOICE ULTRASONOGRAPHIC FINDINGS

16194

DATE

6/20/22

- Overtly normal cardiac structure and function
- Normal left atrium
- Mild LV remodeling



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INVOICE

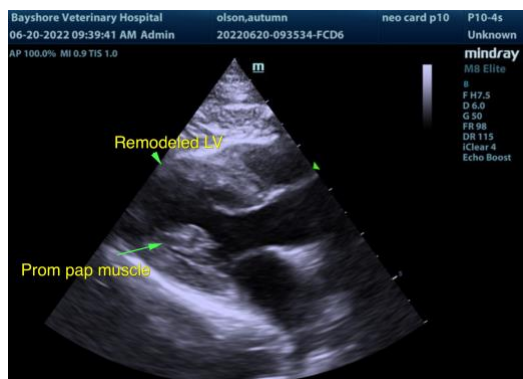
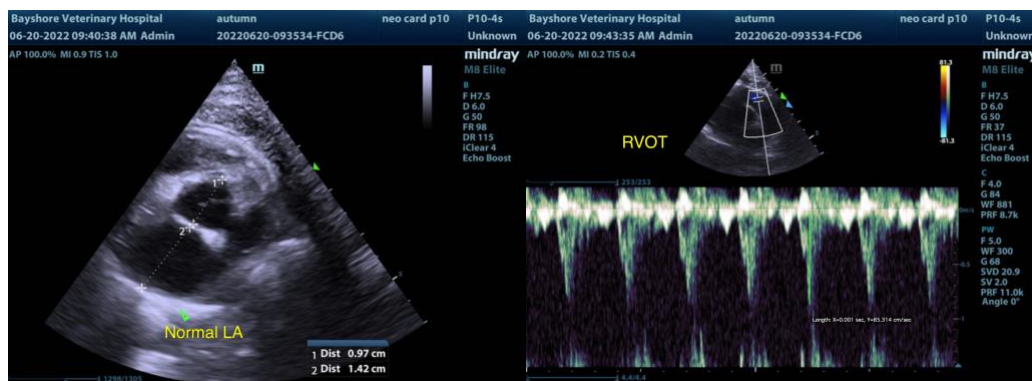
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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

No evidence of significant structural or functional cardiomyopathy. If a murmur is present, its probably a benign physiologic or flow murmur. The lack of left atrium enlargement, or additional clinical issues, such as LV systolic dysfunction, arrhythmogenic disease or evidence of clinical pulmonary hypertension indicate that the risk of future complication is low. No indication for cardiac medications. Assessment of T4 levels is suggested, if not recently done. Recheck echocardiogram is suggested in 6 months or sooner, if clinical signs consistent with cardiac disease arise.



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.

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.

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