



PATIENT PRESENTING CLINICAL SIGNS

Conrad Zigrovic

History: Painful front limbs Abnormal shape and size of heart confirmed on x-ray & concern for effusion
meds: Theophylline 100mg 1 tab SID, Lactulose, Mirtazipine Ointment, Potassium Gluconate

SPECIES

Feline

Abnormal PE/Chem/CBC/UA Results: please see attached rads and bW

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

BREED

DSH

SEX

Neutered Male

AGE

12 Years

WEIGHT

6.8 kg

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	--	191	0.55	1.48	0.56	51.9	86.2
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	1.1	1.2	1.1	1.0	0.7	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

INTERPRETED BY

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

IMAGING PERFORMED BY

Kelly Reschny

HOSPITAL NAME

Beattie PH East
Hamilton

REFERRING VET

Dr. MacDonald

INVOICE

14308

DATE

3/14/22

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. 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 adequate and in normal range for this patient evidenced by the fractional shortening measurement and subjective evaluation of the different regions and angles of the myocardium. The **left ventricular outflow** tract demonstrated normal laminar flow and subjective structural integrity. 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 normal valve structure, laminar flow, and diameter (approx.1:1 pa/ao ratio). Mild to moderate volume free pleural fluid, exhibiting subjective mild cellular component was present. No overt evidence of concurrent pericardial free fluid. Areas of subjective atypical yet homogeneous lung were present. No overt pericardial or thoracic masses noted.

ULTRASONOGRAPHIC FINDINGS

- Overtly normal cardiac structure and function
- Noncardiogenic pleural effusion



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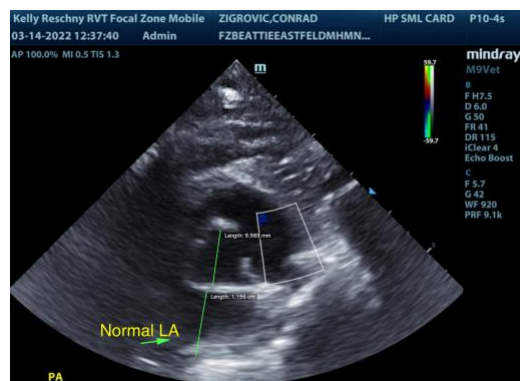
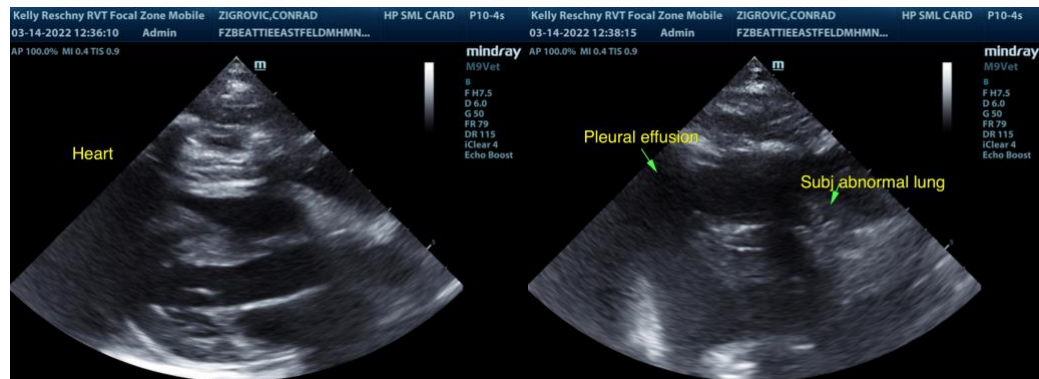
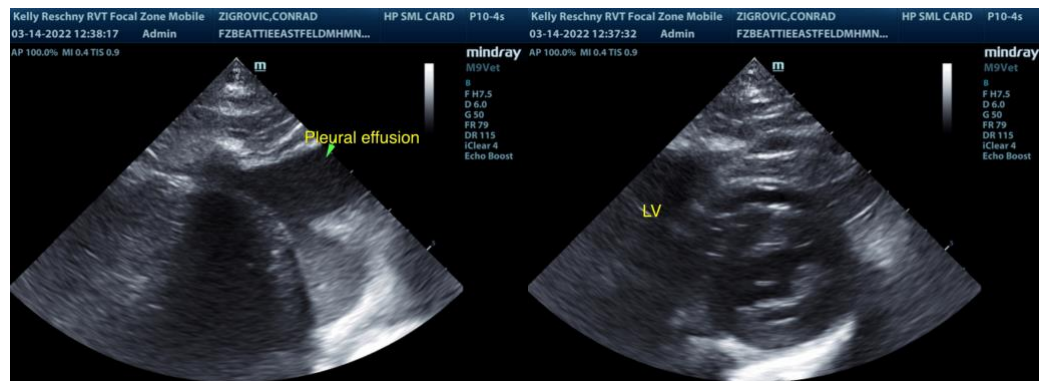
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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Thoracocentesis for effusion analysis, cytology +/- culture and sensitivity (if clinically indicated) is recommended for further assessment. Abdominal ultrasound to assess for or rule out concurrent or primary intraabdominal pathology is warranted. Pending additional diagnostics, thoracic CT could be considered in this patient.



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.

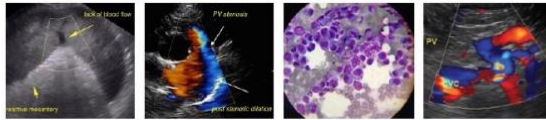
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Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance please contact me.



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