



PATIENT

Heather Beattie

PRESENTING CLINICAL SIGNS

History: Pleural effusion, dyspnea. Hx of asthma.
Abnormal PE/Chem/CBC/UA Results: Creat 1.9

SPECIES

Feline

BREED

Domestic Shorthair

SEX

Spayed Female

AGE

13 years

WEIGHT

12.3 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Shari Reffi, CVT

HOSPITAL NAME

Animal Care Center of
Flanders

REFERRING VET

Dr. Casulli

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The **left atrial** size was normal to subnormal. 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 auricle** was unremarkable. **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). A large amount of pleural effusion was noted with areas of fat consolidation. Areas of lung consolidation were also noted.

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		208	0.44	1.55	0.54	58	90
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	1.4	1.8	1.0	0.71	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

ULTRASONOGRAPHIC FINDINGS

INVOICE

Non-cardiogenic lung consolidation with a large amount of thoracic fat. I suspect thoracic neoplasia.

92690

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

DATE

Pleurocentesis and cytospin is warranted to assess for exfoliating neoplasia. Abdominal sonogram is warranted to assess any primary disease that may be metastatic to the chest. There are no overt masses

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noted; however, there are areas of lung consolidation as well as fat consolidation. Regardless, metastatic or primary neoplastic event is suspected.

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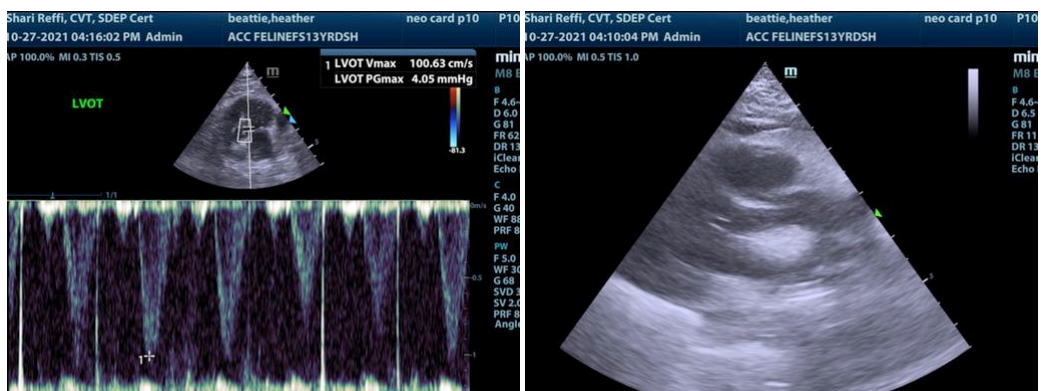
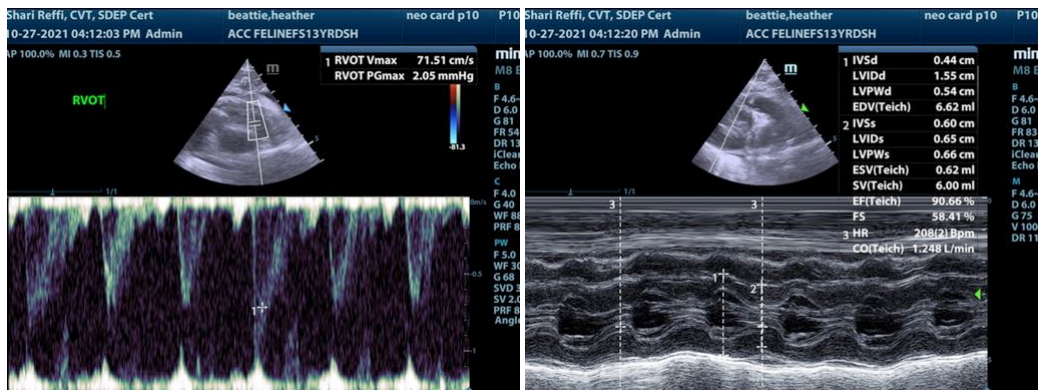
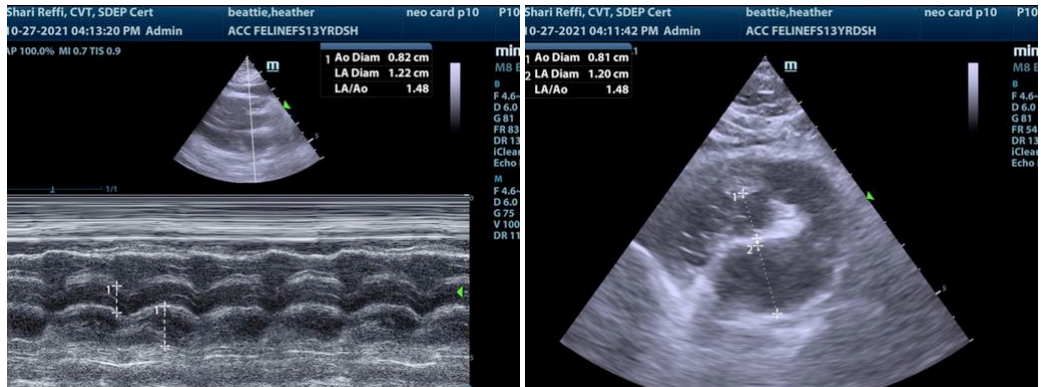
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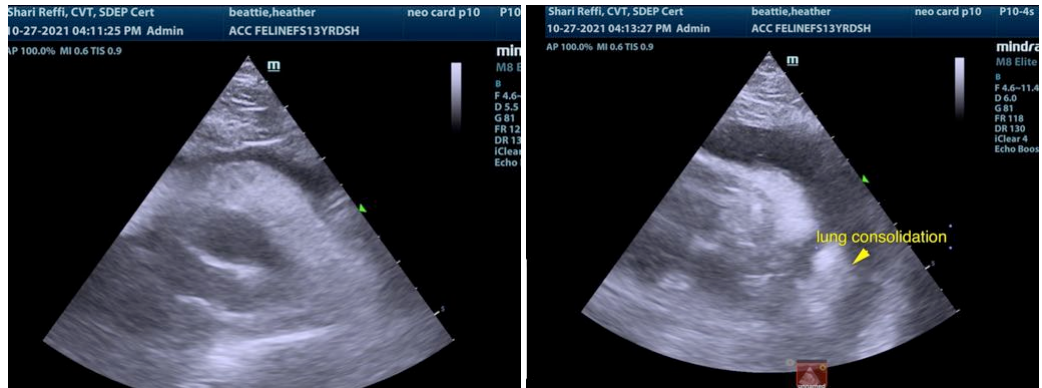
Dr. Casulli

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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.

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