



PATIENT PRESENTING CLINICAL SIGNS

Gizmo Demarest History: Coughing. R/O cardiogenic vs. asthma vs. infectious. Current meds: Doxycycline.

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE HEART

Feline

BREED

Oriental Cat

SEX

Neutered male

AGE

3 years

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). Comet tail lung pattern was noted, which is indicative of alveolar disease.

WEIGHT

10.3 lbs

INTERPRETED BY

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

IMAGING PERFORMED BY

Kelly Vazquez, CVT

HOSPITAL NAME

Legacy AH

REFERRING VET

Dr. Pontenzone

INVOICE

42317

DATE

11/3/22

FELINE CARDIAC PARAMETERS	BODY WEIGHT	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	10.3 lbs	130	0.4	1.66	0.41	36	70
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	1.2			0.76	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							



PATIENT

Gizmo Demarest

ULTRASONOGRAPHIC FINDINGS

Normal echocardiogram.

Comet tail lung pattern.

SPECIES

Feline

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Primary respiratory protocol is warranted. Heartworm testing is recommended. Broad spectrum antibiotic, coverage for infectious agents such as Bartonella is indicated with Zithromax or similar.

BREED

Oriental Cat

The echocardiogram revealed no clinical pathology. Therefore, primary treatment for feline bronchial disease is warranted. Fecal analysis for larval migrans, heartworm testing, PCR for mycoplasma/bartonella, +/- TTA or BAL may be appropriate for cytology and culture. Empirical bronchodilators such as terbutaline in an ER setting or albuterol inhaler along with Azithromycin for infectious coverage +/- prednisolone trial could be considered. Monitoring radiographic follow-up is recommended to assess bronchoalveolar pattern and hyperinflation of lungs or progressive densities that may indicate more significant disease or regions to eventually aspirate with ultrasound guidance.

SEX

Neutered male

AGE

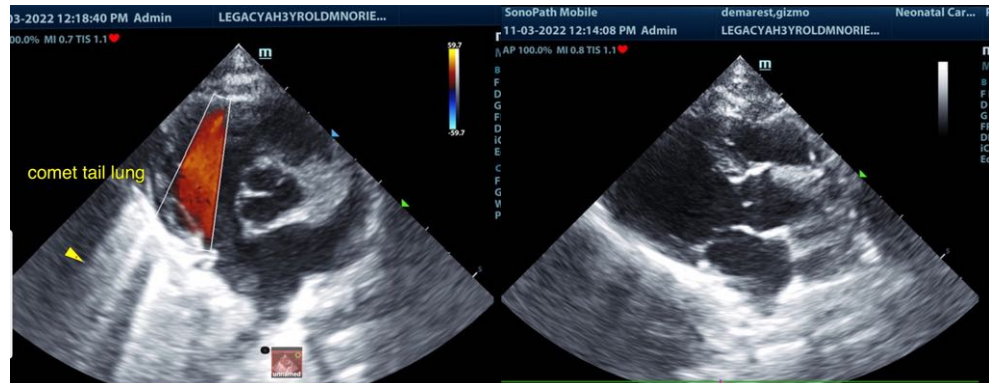
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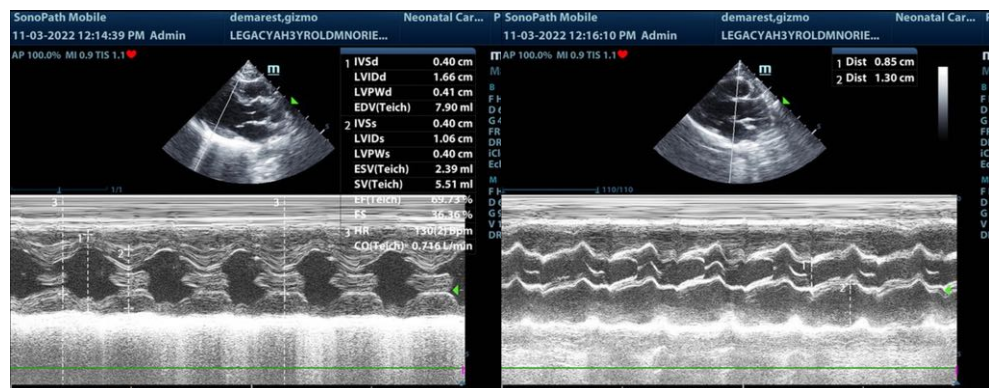
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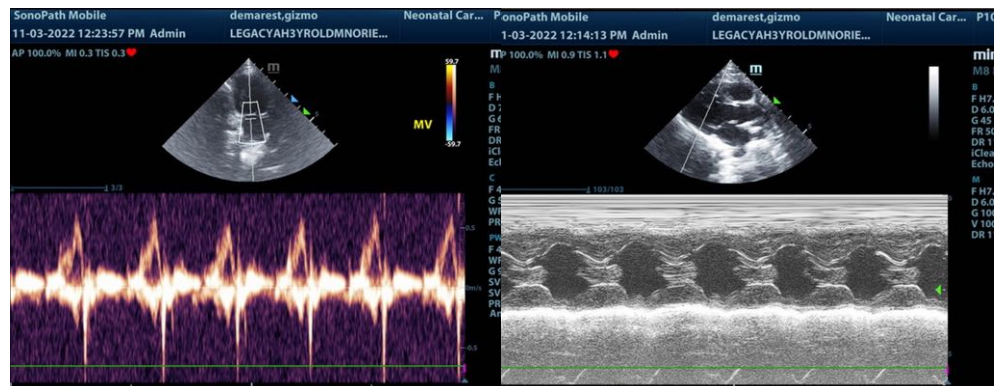
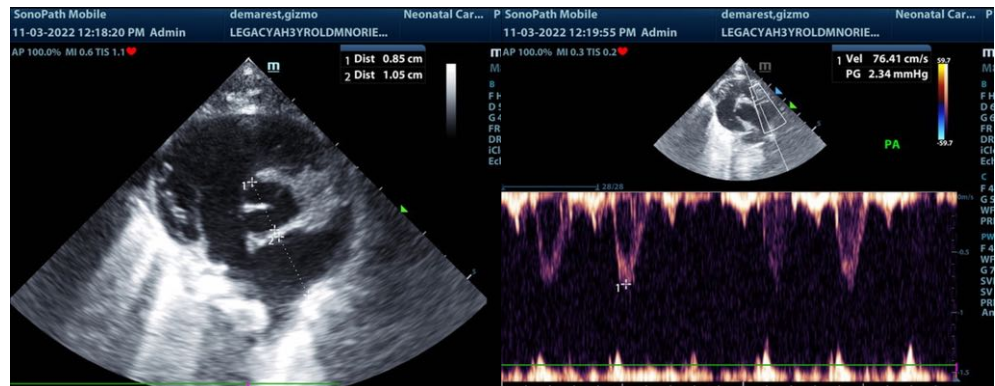
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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