



PATIENT

Luna McKiernan

SPECIES

Lagomorph

BREED

Rabbit

SEX

Spayed Female

AGE

10 Years

WEIGHT

2.4 kg

PRESENTING CLINICAL SIGNS

Pleural effusion. Current medications - Lasix 4mg BID, Vetmedin 0.75 mg BID

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

RABBIT 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	2.4	238	--	1.22	--	32	64
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	1.1	--	1.3		1.9	1.5	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

Eric Lindquist, DMV,
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IVUSS

IMAGING PERFORMED BY

Vincent Ravancho CVT

HOSPITAL NAME

Companion Animal Hospital

REFERRING VET

Dr. Wolf

INVOICE

15820

DATE

05/05/26

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 minor insufficiency measuring 1.8 m/s. 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). Adjacent to the right heart and heart base, a hypochoic tissue proliferation was noted measuring 3.2 cm, deviating the heart. Slight pleural effusion was noted adjacent to the mass. The mass may be a hernia as the diaphragm was poorly defined in the ventral wall.

ULTRASONOGRAPHIC FINDINGS

- Normal echocardiogram with minor tricuspid insufficiency and noncardiogenic pleural effusion.
- Mass formation or diaphragmatic hernia of the liver.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS



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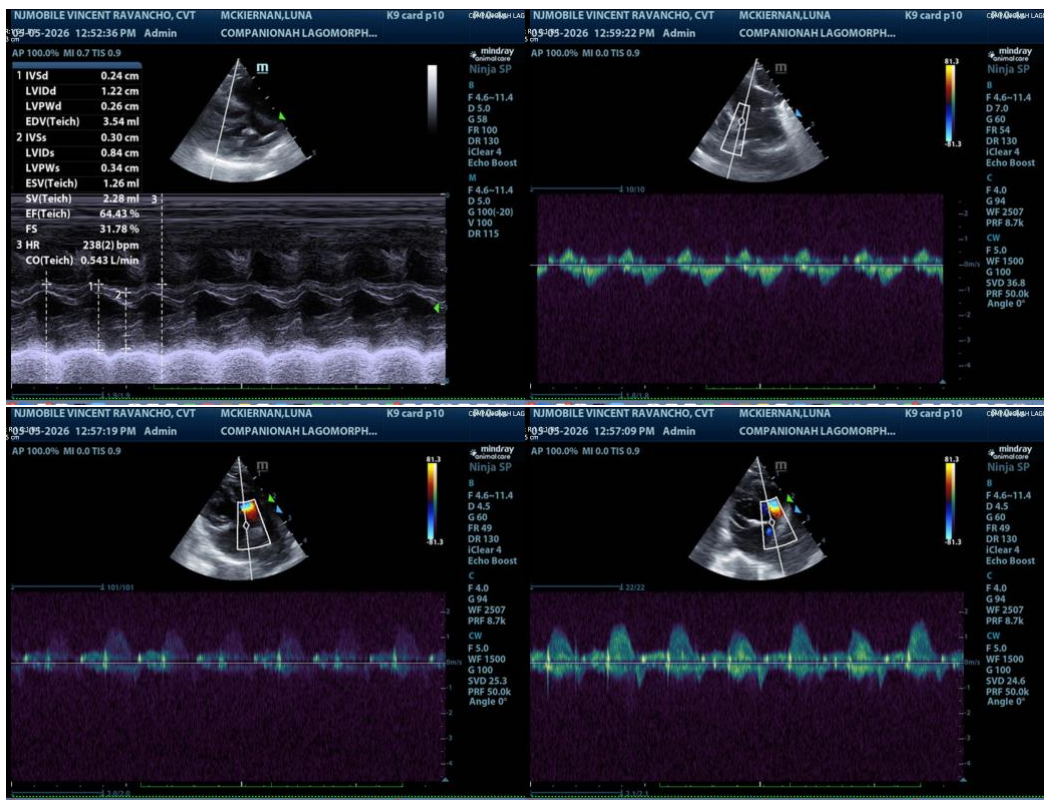
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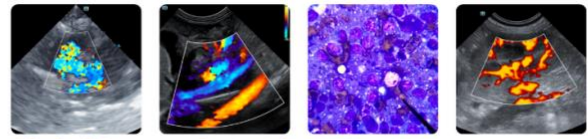
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ABOUT SONOPATH CT SERVICES:

SonoPath CT Services are offered at the SonoPath Imaging and Veterinary Education Center, 141 Main St (rt 206), Andover, New Jersey, a 20-minute drive west on route 80/206 North from the route 80/287 interchange/Parsippany, New Jersey. More information can be found at <https://sonopath.com/services/sonopath-ct-services>

The abnormal tissue is similar to hepatic tissue and echotexture. However, lung sarcoma and other neoplasia as well as lung consolidation can resemble hepatization of the abnormal tissue. Therefore, chest CT +/- FNA of the abnormal tissue is recommended for further definition.





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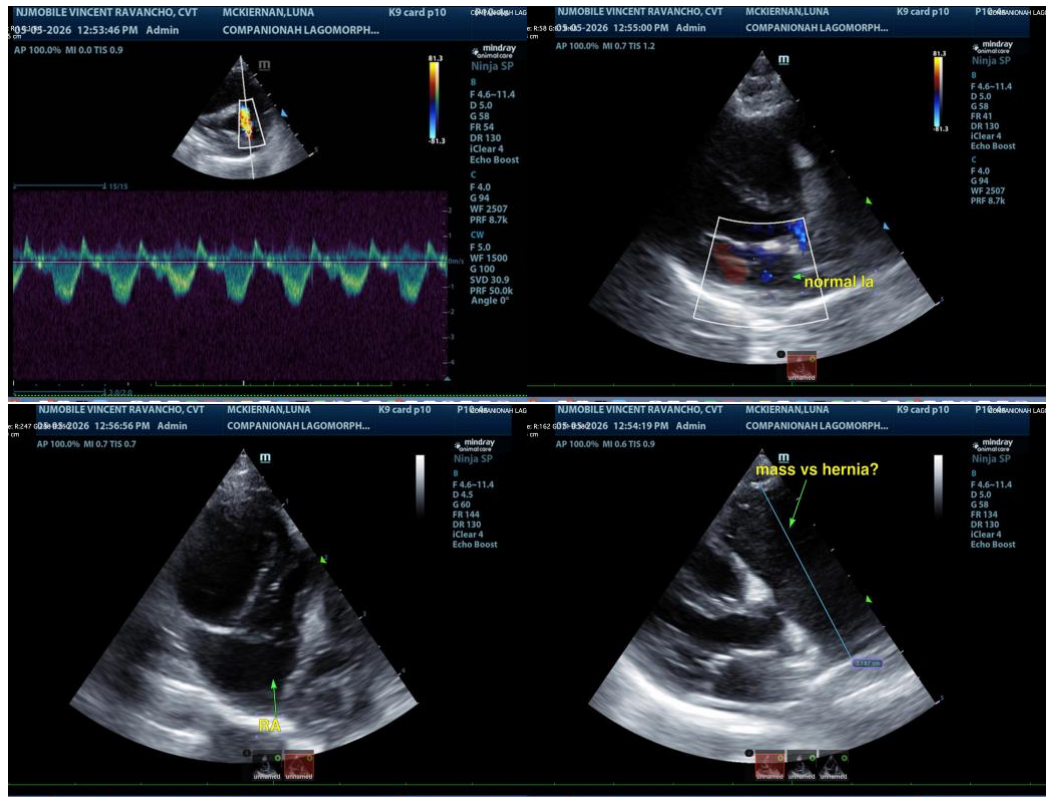
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Eric Lindquist, DMV, DABVP(CFM), Cert. IVUSS,

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