



PATIENT

Theia Kinnison

SPECIES

Feline

BREED

DLH

SEX

Female Spayed

AGE

13 weeks

WEIGHT

4.9lbs

INTERPRETED BY

Maggie Machen
Lamy, DVM, DACVIM
(Cardiology)

IMAGING PERFORMED BY

Sara Hansen

HOSPITAL NAME

Echo Hollow Vet
Hospital

REFERRING VET

Dr. Kenna

INVOICE

22780

DATE

2/23/22

PRESENTING CLINICAL SIGNS

History: Heart murmur, labored breathing with exercise. cyanotic skin (blue/purple hue to skin).
-chest Radiographs: VD and lateral - minor bronchi-alveolar pattern, minor cardiomegaly.
-Abnormal PE/Chem/CBC/UA Results: MCH = 19.7 H MCHC = 41.3 H PLT = 152 L Blood smear = plt clumps noted ALP = 106 H.

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. The left ventricular wall is normal in dimension. There is a mildly hyperechoic endocardium consistent with mild fibrosis. The papillary muscles are normal in size and hyperechoic. The endocardium appears normal. The left atrium is normal in size. The right atrium is normal in size. The right ventricle appears normal. The mitral valve is normal in structure and mobility. Normal flow through both the RVOT and LVOT. Mild TR. Velocity consistent with early pulmonary hypertension. No AI or PI. No pleural or pericardial effusion seen. No obvious cardiac tumors.

CARDIAC CHART

FELINE CARDIAC PARAMETERS	BODY WEIGHT (kg)	HR (BPM)	IVSd (cm) (Moise, Pipers)	LVIDd (cm) (Moise, Pipers)	LWVd (cm) (Moise, Pipers)	FS (%)	EF (%)
NORMAL PARAMETER	-----	150-240	0.35-0.55	<2 (mean 1.5)	3.5-0.55	35-67	80-100
PATIENT	2.2	190	0.41	1.2	0.38	61	92
FELINE CARDIAC PARAMETERS	LA/AO (Boon)	LA/AO HEART BASE (Swe) (Abbott)	LA 2D short axis Base view (cm) (Abbott)		LVOT VEL (m/s)	RVOT VEL (m/s)	E max (m/s)
NORMAL	<1.5	<1.3	<1.2		<1.6	<1.3	<0.9
PATIENT	1.1	1.2	1.0		1.3	1.4	NM
<p><i>*Note: All measurements based upon multi-modal images and methods. An average value is reported.</i> Adapted from June Boon, Veterinary Echocardiography, 1998 Abbott J & MacLean H JVIM 2006;20: 111-119, Moise et al. Am J Vet Res 47:1476, 1986. Pipers et al. Am J Vet Res 40:882, 1979.</p>							

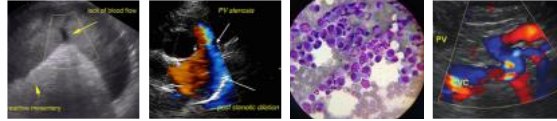
INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Overtly normal cardiac structure and function. The LV wall thickness is normal and there is no evidence of elevated left atrial pressure. The only cause of a murmur is mild TR, which is most often physiologic in cats. That being said, the TR velocity is consistent with early pulmonary hypertension which is difficult to explain in such a young cat. No additional issues are identified.

These findings would suggest the reported breathing changes are noncardiac in origin. The finding of PAH is likely a secondary issue; however, further evaluation is recommended in this case. This includes a Radiologist review of the chest radiographs and potentially a referral for advanced imaging to screen for ancillary issues.

Given these findings, no medications are indicated at this time.

General anesthesia is not advised prior to further respiratory evaluation.



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Recommend recheck echocardiogram in 6-12 months to screen for any progressive issues, sooner if clinical signs arise.

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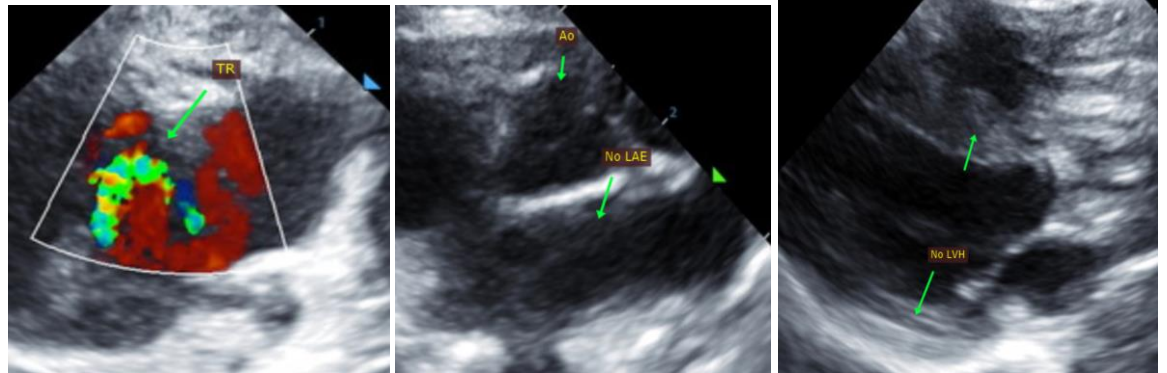
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IMAGES



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. This report was generated using transcription software, and minor dictation errors may be present. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance, please contact me.

Maggie Machen Lamy, DVM
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