



PATIENT

Stella Schmid

SPECIES

Feline

BREED

DSH

SEX

Female Spayed

AGE

9 years

WEIGHT

9lbs

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

IMAGING PERFORMED BY

Sarah Pender, CVT

HOSPITAL NAME

SVS Imaging QC

REFERRING VET

Dr. Hahn

INVOICE

28542

DATE

1/24/23

PRESENTING CLINICAL SIGNS

History: Cough. Responding to Furosemide.

RADIOGRAPHIC FINDINGS *NOTE: Images submitted for supplemental cardiac information only. The cardiac silhouette is obscured by pleural effusion.

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 endocardium also appears mildly remodeled. The papillary muscles are normal in size and hyperechoic. 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. No obvious valve regurgitation. Blood flow through both the LVOT and RVOT is normal in velocity. Scant pericardial effusion appreciated. Large volume pleural appreciated. A large mixed echogenicity mass lesion is seen cranial to the heart base.

CARDIAC CHART

FELINE CARDIAC PARAMETERS	BODY WEIGHT (kg)	HR (BPM)	IVSd (cm) (Moise, Pipers)	LVIDd (cm) (Moise, Pipers)	LVWd (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	4.1	220	0.48	1.0	0.48	53	88
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	NM	1.3	1.0		0.8	1.3	NM

**Note: All measurements based upon multi-modal images and methods. An average value is reported.
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.*

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 or underlying pathology at this time. There is mild remodeling and fibrosis of the left ventricular wall, which is considered likely a normal age-related finding. Given these findings, no medications are indicated.

A large mass lesion is seen cranial to the heart base. An exact origin cannot be identified (ie the heart base versus mediastinum versus other). **Highly recommend immediate thoracocentesis with repeat chest radiographs and focused thoracic ultrasound to follow. Radiologist review of the films would be strongly recommended in light of these atypical findings. CHF is certainly not the cause of the effusions and no medications are warranted at this time.**

**PATIENT**

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Anesthetic risk is considered mild. Risk for complication with steroid use typically follows LA dilation, which in this case is low. That being said, any cat can experience unexpected signs of intolerance and monitoring of RR/RE is advised particularly in the initiation phase.

SPECIES

Feline

PLAN

Immediate diagnostic and therapeutic thoracocentesis with submission of the effusion for cytology. Once the chest is drained, repeat three-view chest radiographs with a Radiologist review is suggested. Further evaluation, such as focus thoracic ultrasound, FNA, etc. should be dictated by the CXR report.

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Recommend recheck echocardiogram in 1 year to assess for any progressive issues.

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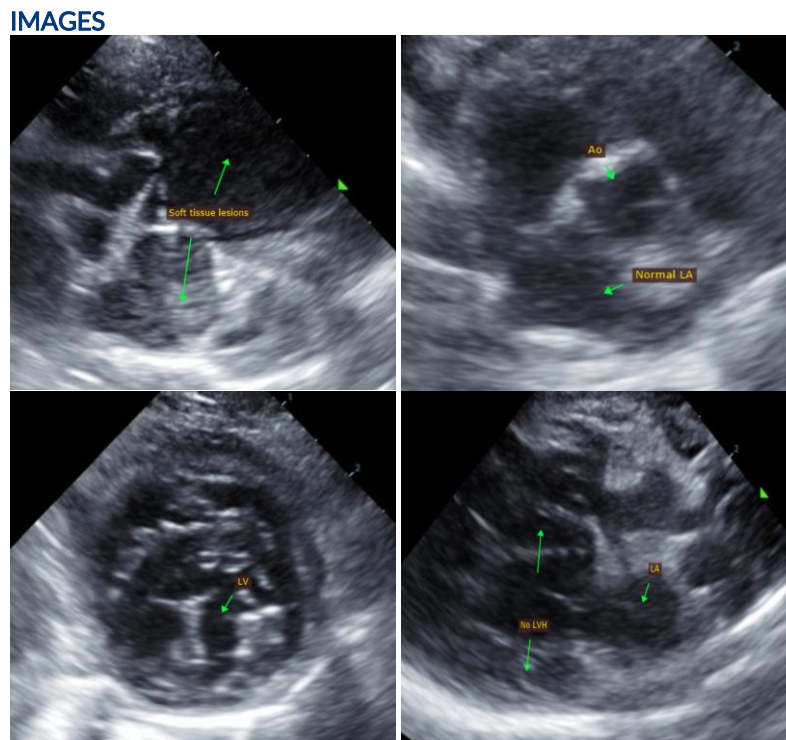
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

REFERRING VET

Dr. Hahn

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.

Maggie Machen Lamy, DVM
Diplomate of the American College of Veterinary Internal Medicine (Cardiology)
info@sonopath.com

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