



## PATIENT

Hagrid Young

## SPECIES

Feline

## BREED

Maine Coon

## SEX

Neutered male

## AGE

8 years

## WEIGHT

14.68 lbs

## INTERPRETED BY

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

## IMAGING PERFORMED BY

Dr. Hollway

## HOSPITAL NAME

Valley Green VH

## REFERRING VET

Dr. Oberer Gerber

## INVOICE

69478

## DATE

12/10/25

## PRESENTING CLINICAL SIGNS

History: Grade 3/6 HM. Not currently on any meds. Wanting COHAT. Pre-op heart work-up Owner would like us to check for fleas and ticks while he is here gave gabapentin last night and this morning-- 2 ml around 7-730ish Someone knocked over treats last night. O does not think he got anything, but could be possible. E/D/U/D well otherwise

Abnormal PE/Chem/CBC/UA Results: BAR. Abdomen palpates with no pain, tenderness or masses -- doughy. Grade 3 out of 6 heart murmur, loudest left. Normal rhythm w/ synchronous pulses. Lungs clear bilat. BSC 7/9; though 1lb of unintentional wt loss since the P was last seen in 11/21/25. Regional thinning over rump, some scabs around the neck. Flea dirt noted ventral neck. Grade 3 Dental Disease; multiple missing incisors, significant gingivitis and moderate tartar removal 12/10/25: BP - avg 149.5mmHg --> pre-hypertensive ECG - nsf 11/22/25: CBC -RBC NSF -WBC increased eosinophils and basophils, mild. r/o allergic, infectious (parasitic, viral, fungal), endocrine, other. -PLT NSF Chem= NSF Lytes = NSF proBNP = 355 HIGH T4 = 2.3 (normal) Triple snap negx3

## ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 separate LA measurements. Minor **mitral** valve insufficiency was noted. 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). No visible **pericardial** or free pleura fluid was noted or extra cardiac pathology in the visible planes. The cranial **mediastinum and pericardial regions** were free of masses in the visible window.



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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	14.68 lbs	NM	0.6	1.5	0.55	50	
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		1.3	1.4		None	0.7	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 EXAMINATION OF THE ABDOMEN**

**Urinary System**

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The ureters were not visible which is normal. No uroliths or sediment were visualized and anechoic urine was present. No evidence of inflammatory or neoplastic changes was noted. Ureteral papillae were normal.

The **kidneys** revealed normal size and structure, corticomedullary definition and ratio for this age. The cortices presented largely uniform texture with normal echogenic relationship to liver and spleen. Medullary structure differed distinctly from the cortex and no evidence of pelvic dilation was present. The capsules were acceptably uniform without significant irregularities. The left kidney measured 4.5 cm. The right kidney measured 4.6 cm.

**Adrenal Glands**

Both **adrenal glands** were visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. The left adrenal gland measured 0.4 cm.

**Spleen**

The **spleen** was mildly enlarged with uniform, but subtly micronodular parenchyma, and undulating capsular contour. This is consistent with reactive spleen owing to immune stimulus or early infiltrative



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disease such as mast cell disease or lymphoma. 25-gauge FNA would be ideal if weight loss is an issue to differentiate early round cell neoplasia versus splenitis or reactive spleen all of which can present in this manner. The spleen measured 1.1 cm.

### *Liver*

The **liver** images submitted revealed subjectively normal liver size, contour, and structure. Parenchymal echogenicity was naturally coarse and hypoechoic to the spleen. Vascular and biliary tracts were of normal volume with no evidence of congestion. The gallbladder revealed progressive shadowing or minor coalescing sand that was non-obstructive. Grouping of sand measured 1.4 cm.

### *Gastrointestinal*

Examination of the **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. The stomach revealed a hairball type density that occupied the majority of the gastric lumen. Small and large intestine demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.

### *Pancreas*

The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Pancreatic duct and capsular contour were acceptably normal and parenchyma respected normal curvilinear patterns. No overt evidence of active inflammatory or neoplastic disease was noted.

## ULTRASONOGRAPHIC FINDINGS

Normal echocardiogram with trivial mitral insufficiency.

Mild splenic enlargement and micronodular changes.

Minor gallbladder sand.

Hairball density in the stomach.

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

25-gauge FNA of the spleen is indicated to ensure this is simple hyperplasia. Hairball management and Ursodiol therapy is recommended. A recheck sonogram is recommended in 6-8 weeks.



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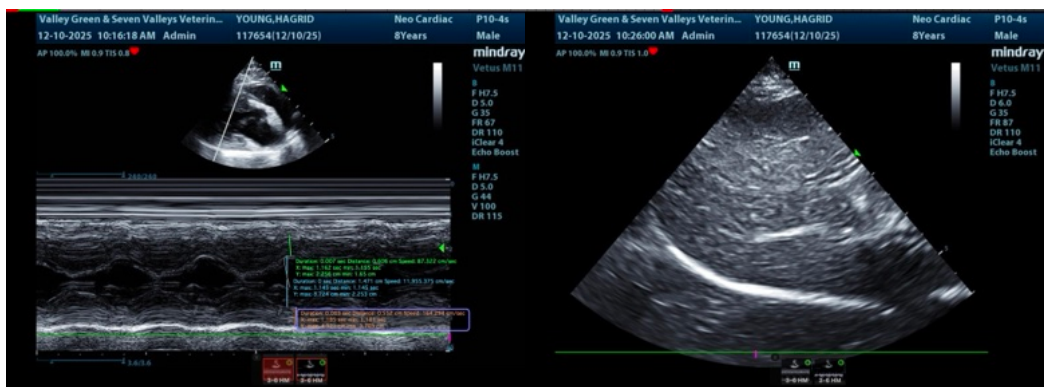
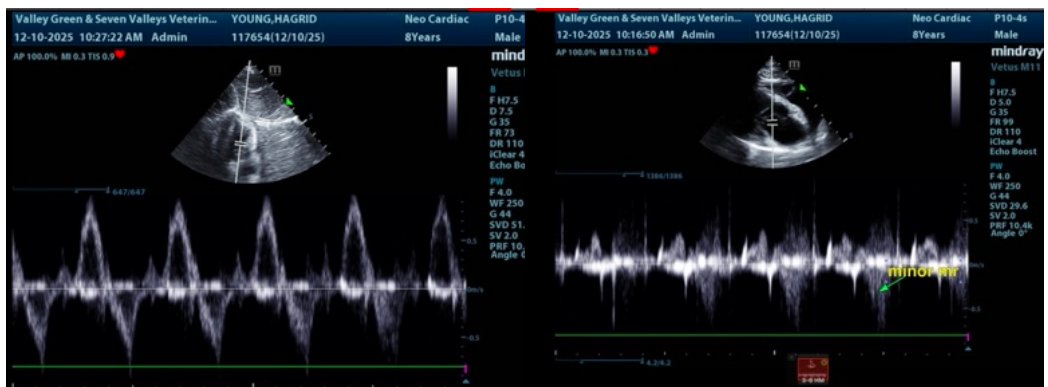
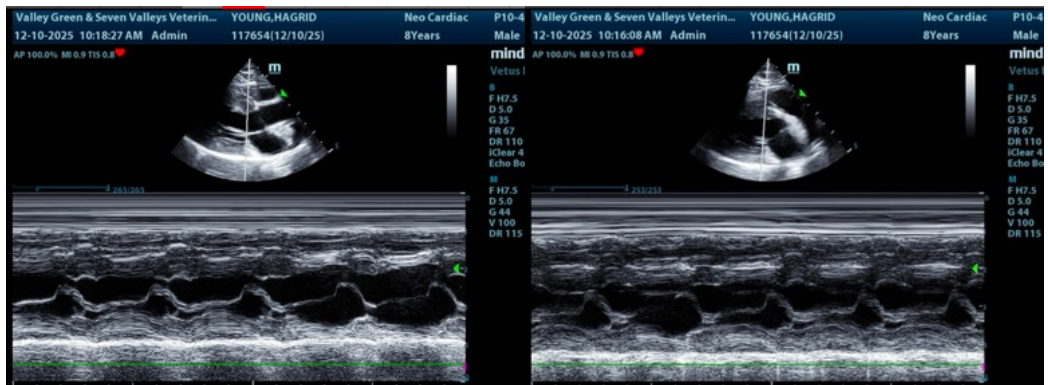
Dr. Oberer Gerber

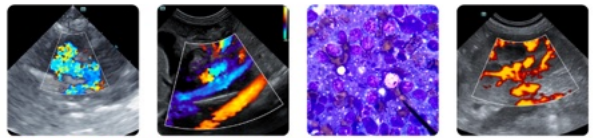
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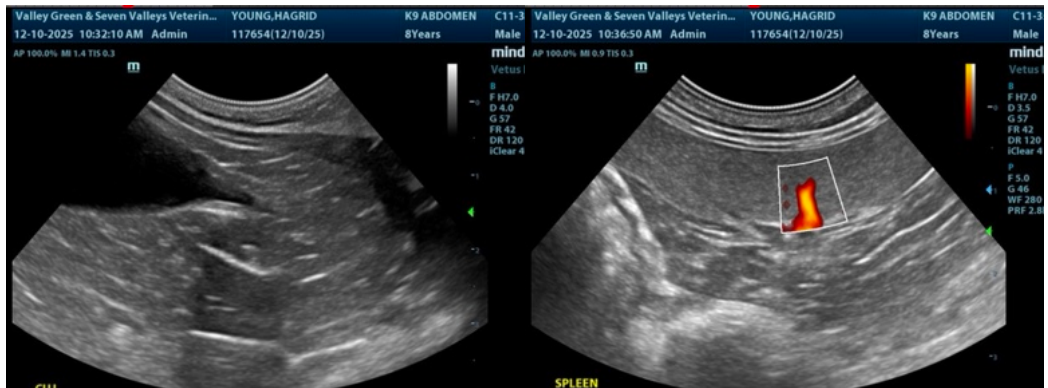
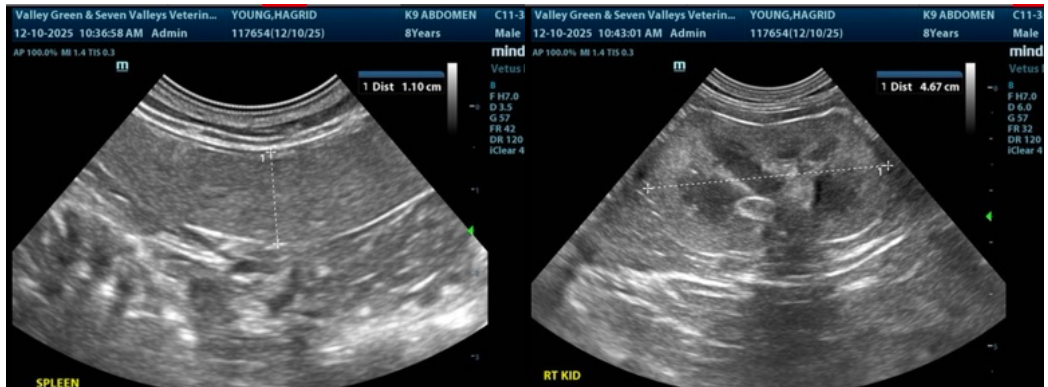
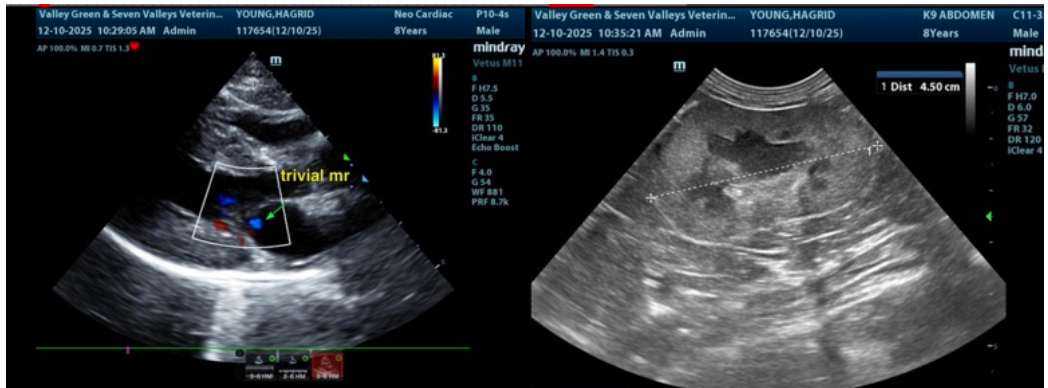
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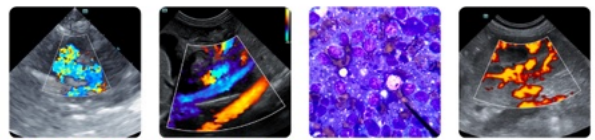
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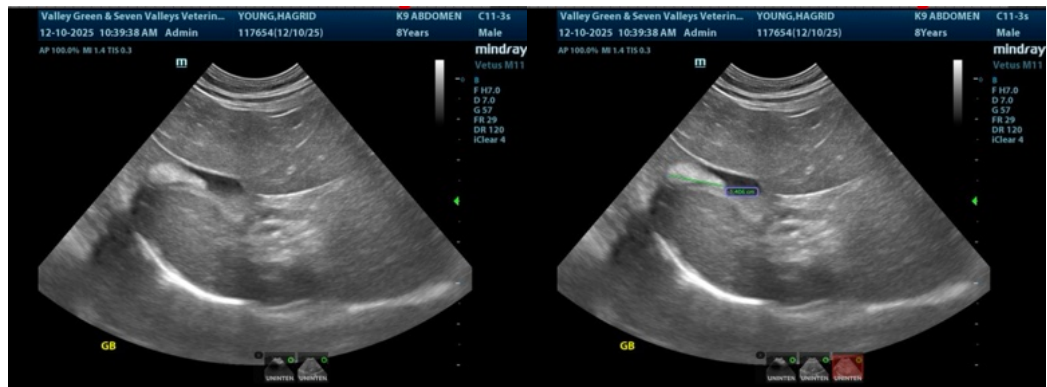
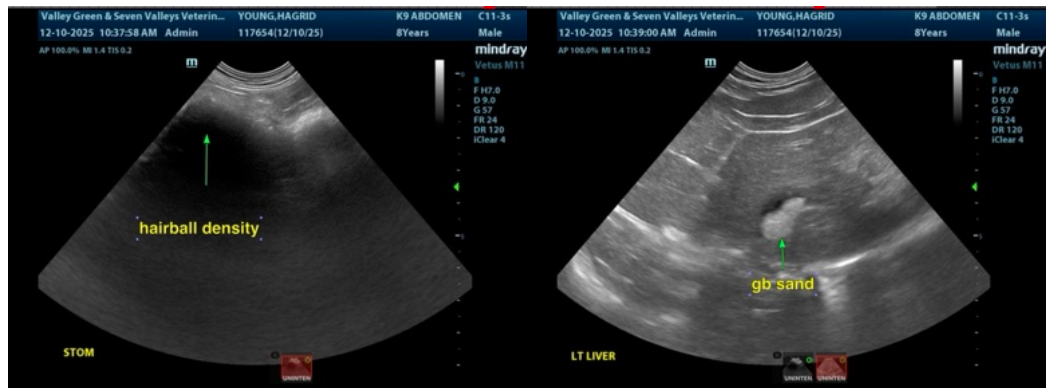
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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

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