



PATIENT PRESENTING CLINICAL SIGNS

Onyx Alsop

History: Staff pet. Has had diarrhea since February, small amount of weight loss. Still eating well, good energy, otherwise seems fine. A few months ago was wobbly and fell off a coffee table, hasn't happened again. Fully fasted 18 hours.

SPECIES

Bloodwork is normal except T4 is on the high end of normal. Moderate hypertension.

Feline

BREED

Domestic Longhair

SEX

Neutered male

AGE

Approx 9 years

WEIGHT

4.3 kg

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Hauer

HOSPITAL NAME

Mariposa VH

REFERRING VET

Dr. Hauer

INVOICE

44062

DATE

4/27/23

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 right kidney measured 4.71 cm. The left kidney measured 4.3 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 right adrenal gland measured 0.3 cm. The left adrenal gland measured 0.33 cm.

Spleen

The **spleen** presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The capsule was smooth without noticeable expansion or deviation from within the spleen or adjacent pathology. The splenic vasculature demonstrated normal volume without signs of congestion or thrombosis. No sonographic evidence of acute or chronic inflammatory, neoplastic, or infarctual changes was noted.

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 presented acceptably thin walls with primarily anechoic content. The cystic and common bile ducts were normal. No pathological hepatic lymphadenopathy was evident. No overt structural evidence of inflammatory, infiltrative or regenerative pathology was evident.



PATIENT

Gastrointestinal

Onyx Alsop

The **stomach** was filled with progressively shadowing material. This is consistent with hairball density or similar material. The hair density was noted in the gastric fundus. The pylorus appeared free of evident pathology. Severe over distention was noted and extended for at least 6.0 cm and repleting the entire stomach. The small intestine and colon and ileocecal junction were all normal.

SPECIES

Feline

BREED

Domestic Longhair

Pancreas

The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Some parenchymal remodeling, however, with mild deviation from curvilinear normalcy was observed. Pancreatic duct and capsular irregularities were present consistent with age related changes. If pain upon imaging (+ Murphy sign) was present or if the patient is focally painful in subxiphoid palpation then low-grade smoldering chronic pancreatitis should be suspected.

SEX

Neutered male

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

AGE

Approx 9 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). 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.

WEIGHT

4.3 kg

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Hauer

HOSPITAL NAME

Mariposa VH

REFERRING VET

Dr. Hauer

INVOICE

44062

DATE

4/27/23



PATIENT	FELINE	BODY WEIGHT	HR	IVSd	LVIDd	LVWd	FS	EF
Onyx Alsop	CARDIAC PARAMETERS	(kg)	(BPM)	(cm)	(cm)	(cm)	(%)	(%)
SPECIES	NORMAL PARAMETER	-----	150-240	0.3-0.6	1.0-2.1	0.25-0.6	35-67	80-100
Feline	PATIENT		NM	0.6	1.36	0.52	55	
BREED	FELINE	LA/AO	LA/AO	LA		LVOT VEL.	RVOT VEL.	IVRT
Domestic Longhair	CARDIAC PARAMETERS	(Boon)	HEART BASE (Sisson)	2D 4-chamber long axis AS to FW (Sisson) (cm)		(m/s)	(m/s)	(m/)
SEX	NORMAL PARAMETER	<1.5	0.88-1.79	0.7-1.7		<1.6	<1.3	40-60
Neutered male	PATIENT	1.2	1.28	1.3		Underestimated	1.4	NM
AGE	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							
Approx 9 years								

ULTRASONOGRAPHIC FINDINGS

Hairball density in the stomach.

Otherwise, unremarkable abdomen.

Normal echocardiogram, normal structure and function.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Medical treatment for hairballs with GI lubricants could be considered. Medical dissolution medications are recommended. Recheck sonogram is recommended in 10 days. The heart is not playing a role in the clinical history. Full CNS examination +/- skull CT may be appropriate depending on the clinical examination. I cannot rule a paroxysmal arrhythmia; however, no arrhythmogenic activity was noted during the sonogram.

Differentials for diarrhea include occult parasitism. Dietary indiscretion, dietary intolerance, antibiotic responsive colitis, intestinal dysbiosis and occult Addison's should all be considered as causes of diarrhea in this patient. A hydrolyzed diet trial may be in this patient's best interest +/- probiotics. 24-hour NPO and reintroduction of bland diet indicated. I recommend a baseline cortisol or ACTH stimulation test, a fresh fecal smear and fecal floatation analysis if not already performed.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Hauer

HOSPITAL NAME

Mariposa VH

REFERRING VET

Dr. Hauer

INVOICE

44062

DATE

4/27/23



PATIENT

Onyx Alsop

SPECIES

Feline

BREED

Domestic Longhair

SEX

Neutered male

AGE

Approx 9 years

WEIGHT

4.3 kg

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Hauer

HOSPITAL NAME

Mariposa VH

REFERRING VET

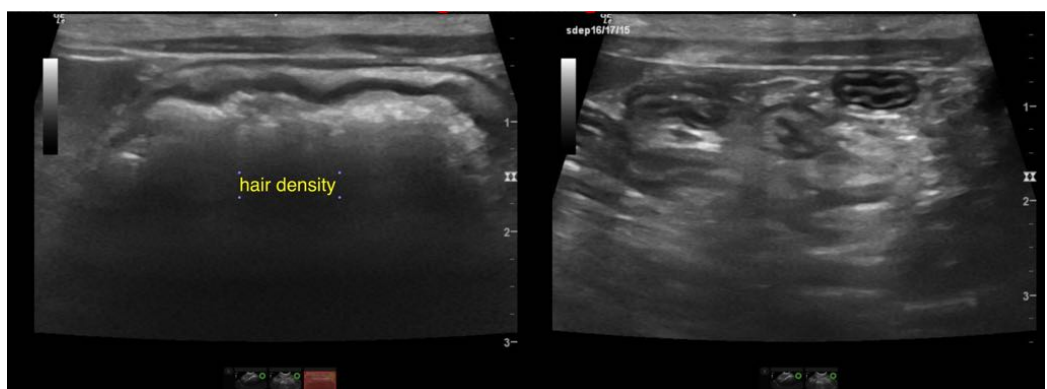
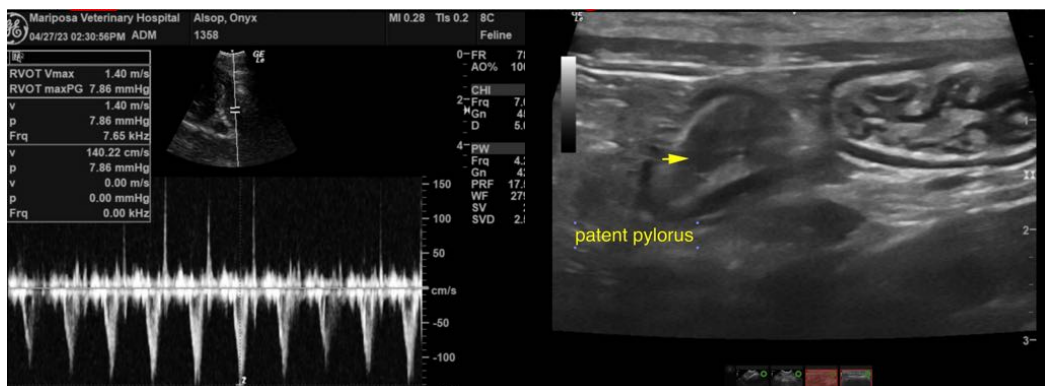
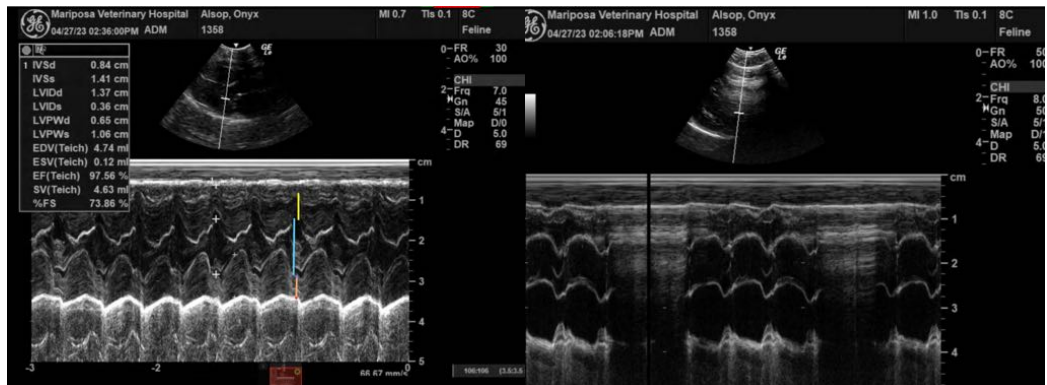
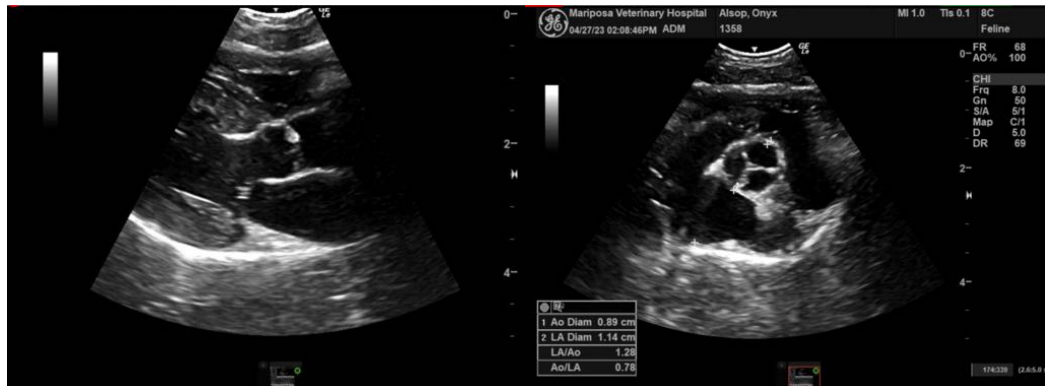
Dr. Hauer

INVOICE

44062

DATE

4/27/23





PATIENT

Onyx Alsop

SPECIES

Feline

BREED

Domestic Longhair

SEX

Neutered male

AGE

Approx 9 years

WEIGHT

4.3 kg

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUS

IMAGING PERFORMED BY

Dr. Hauer

HOSPITAL NAME

Mariposa VH

REFERRING VET

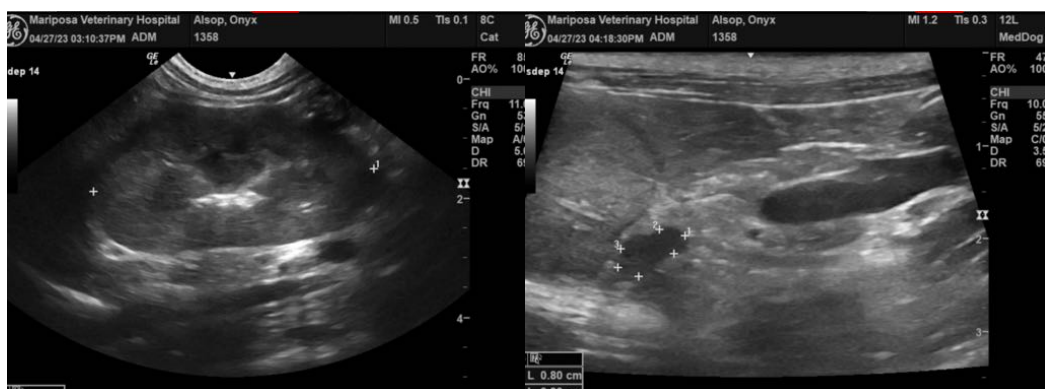
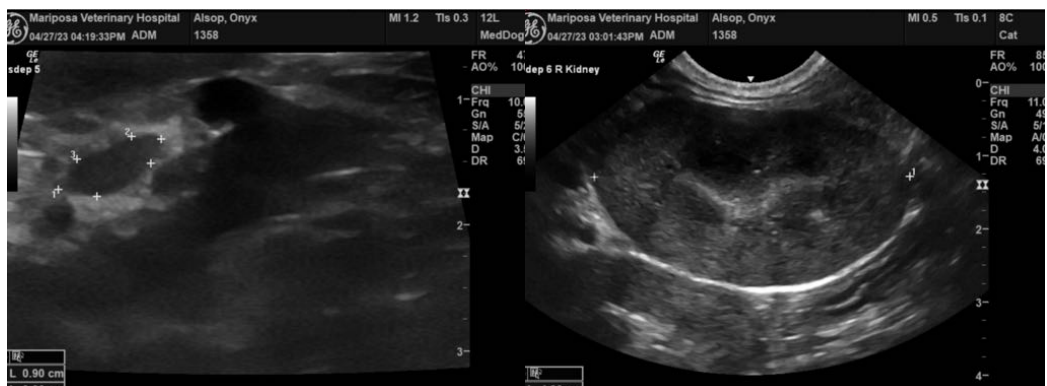
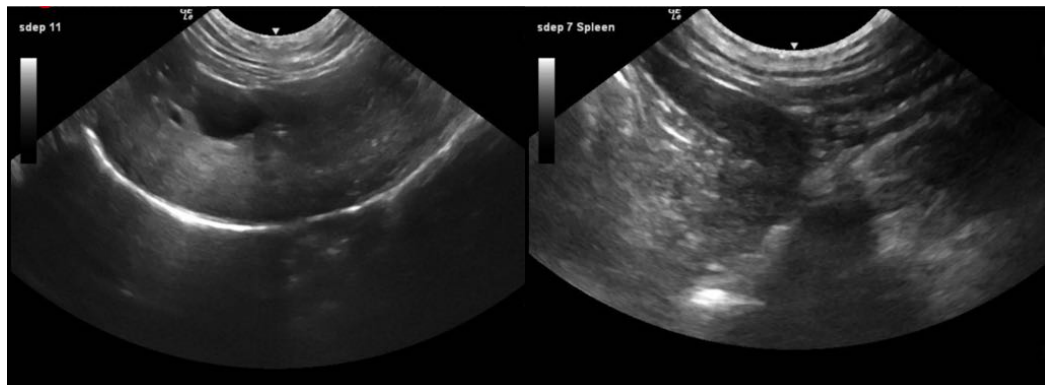
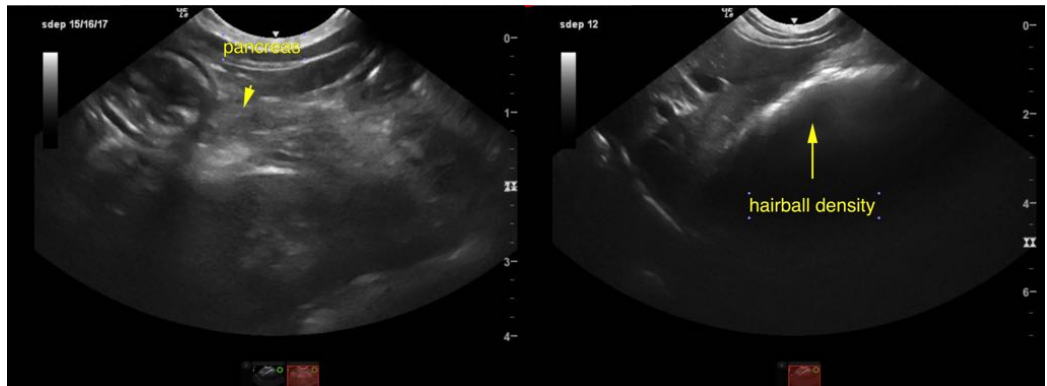
Dr. Hauer

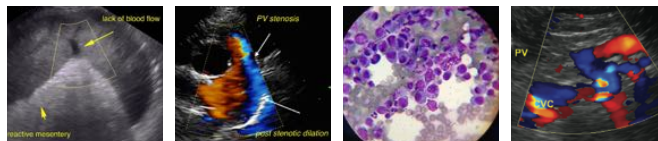
INVOICE

44062

DATE

4/27/23





PATIENT

Onyx Alsop

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.

SPECIES

Feline

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.

BREED

Domestic Longhair

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

SEX

Neutered male

AGE

Approx 9 years

WEIGHT

4.3 kg

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

**IMAGING
PERFORMED BY**

Dr. Hauer

HOSPITAL NAME

Mariposa VH

REFERRING VET

Dr. Hauer

INVOICE

44062

DATE

4/27/23