



PATIENT PRESENTING CLINICAL SIGNS

PATIENT Rocky Gallo Pain and lethargy after FNA of 3 SQ lumps. Changes found on routine bloodwork. Was also given Lepto and Bordetella vaccine at that visit. No meds.

SPECIES Canine HCT 0.45, Reticulocytes 291.1, WBC 18.0 with neutrophilia, minor monocytosis, Platelets 28

Chemistry Panel - Glucose 1.5, ALP 265, Triglycerides 3.56, Free T4 4.0

BREED ULTRASONOGRAPHIC EXAMINATION OF THE HEART & ABDOMEN

Mixed Terrier X

SEX

MN

AGE

9 years

WEIGHT

17.2 lbs.

INTERPRETED BY

R. McKenzie Daniel, DVM, DABVP

IMAGING PERFORMED BY

Crystal Hill

HOSPITAL NAME

Halton Peel AH

REFERRING VET

Dr. Walters

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DATE

5/5/22

CANINE	MR	TR	LA/AO	LA/AO	FS	EF	EPSS
CARDIAC PARAMETERS	VMAX (m/s)	VMAX (m/s)	(Boon method)	(Heart Base; Swe)	(%)	(%)	(cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.3	28-40	40-100	<0.6
PATIENT	4.7		1.1	1.3	38	70	0.22
CANINE	HR	AV	PV	BODY WEIGHT	LA	LVIDd	LVIDs
CARDIAC PARAMETERS	(BPM)	VMAX (m/s)	MAX (m/s)	(kg)	2D short axis Base view (cm)	Avg; 2D and m-mode short axis (cm)	Avg; 2D and m-mode short axis (cm)
NORMAL PARAMETER	50-100	0.7-1.7	0.7-1.6				
PATIENT	84	1.5	0.92		2.6	2.9	

Cardiac Presentation

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 different LA measurement methods. Chamber volumes and echogenicity were normal. The cranial and caudal **mitral** valve leaflets presented minor vegetative thickening consistent with minor endocardiosis. Doppler indicated measurable mild insufficiency. The **left ventricle** presented 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 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. 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. No echographically detectable evidence of infiltrative disease was visible. The cranial **mediastinum and pericardial regions** were free of masses in the visible window.


PATIENT

Rocky Gallo

Urinary System
SPECIES

Canine

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2.0 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with no uroliths or sediment. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes was noted.

BREED

Mixed Terrier X

No overt pathology was noted in the area of the residual prostate.

The area of the aortic trifurcation was free of pathology.

SEX

MN

Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio was maintained. The medulla and cortices were uniform in texture with some increased echogenicity and minor loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 4.2 cm in length. The right kidney measured 4.4 cm in length.

AGE

9 years

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 1.7 cm length x 0.35 cm width at the caudal pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 1.7 cm length x 0.55 cm width at the caudal pole.

WEIGHT

17.2 lbs.

INTERPRETED BY

 R. McKenzie Daniel,
 DVM, DABVP

Spleen

The spleen exhibited a finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. The capsule was smooth and regular without apparent expansion. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis. Acute to chronic inflammatory, neoplastic, or benign parenchyma changes were not noted.

IMAGING PERFORMED BY

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Liver/ Gallbladder
HOSPITAL NAME

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The liver exhibited potential for mild generalized enlargement. The parenchyma of the liver was subjectively normal in echogenicity compared to the spleen and renal cortices. The liver parenchyma was uniform with a mildly coarse echotexture. The capsule of the liver was symmetrically rounded to mildly swollen in margination. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size containing primarily anechoic content with very minor luminal debris. The cystic and common bile ducts were normal.

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Dr. Walters

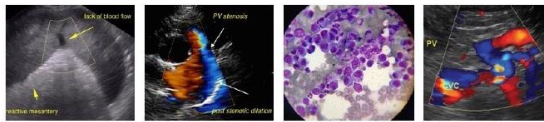
Gastrointestinal
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The stomach presented mild wall thickening secondary to mildly prominent mucosa primarily in the fundus and body. Intact wall layering was maintained and distinct. Mild retained anechoic fluid was present in the gastric body. The ventral gastric body wall including mildly prominent mucosa measured up to 0.78 cm width.

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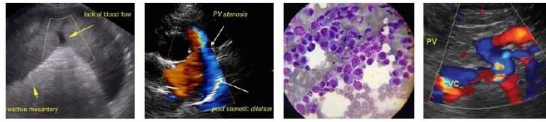
PATIENT	The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. The lumen of the small intestine was empty with no signs of ileus, obstruction, or foreign material. The small intestine wall width measured 0.32 cm.
Rocky Gallo	
SPECIES	Normal visible colon wall layers were present with apparent formed feces in lumen.
Canine	Pancreas
BREED	The pancreas was normal in size and contour with isoechoic to heterogeneous parenchyma compared to adjacent omentum. No signs of active inflammation or neoplasia.
Mixed Terrier X	Free Abdomen
SEX	No overt lymphadenopathy or peritoneal effusion was present.
MN	ULTRASONOGRAPHIC FINDINGS
AGE	<ul style="list-style-type: none"> • Overtly normal cardiac structure and function • Mild MR • Benign hepatopathy - subjective vacuolar hepatopathy pattern • Mildly heterogeneous pancreas - nonspecific, patient or early age-related variant, low grade to chronic pancreatitis possible • Subjective gastritis with potential mild gastric hypomotility
9 years	
WEIGHT	
17.2 lbs.	
INTERPRETED BY	<u>INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS</u>
R. McKenzie Daniel, DVM, DABVP	Overall, no overt evidence of significant cardiac or abdominal visceral pathology.
IMAGING PERFORMED BY	The mild MR may suggest mild to early chronic degenerative changes with secondary insufficiency. The lack of left atrium enlargement indicates that the risk of current and future complication at this stage is low. No other clinical issues such as LV systolic dysfunction, additional valvular insufficiencies, or evidence of pulmonary hypertension were present. No indication for cardiac medications.
Crystal Hill	
HOSPITAL NAME	The possibility of mild to low-grade pancreatitis would be suspected if evidence of cranial abdominal or subxiphoid discomfort on palpation. Correlation with a Spec cPL could be considered. Continued supportive care +/- empirical therapy for gastritis, if evidence of vomiting or anorexia are present, would be reasonable.
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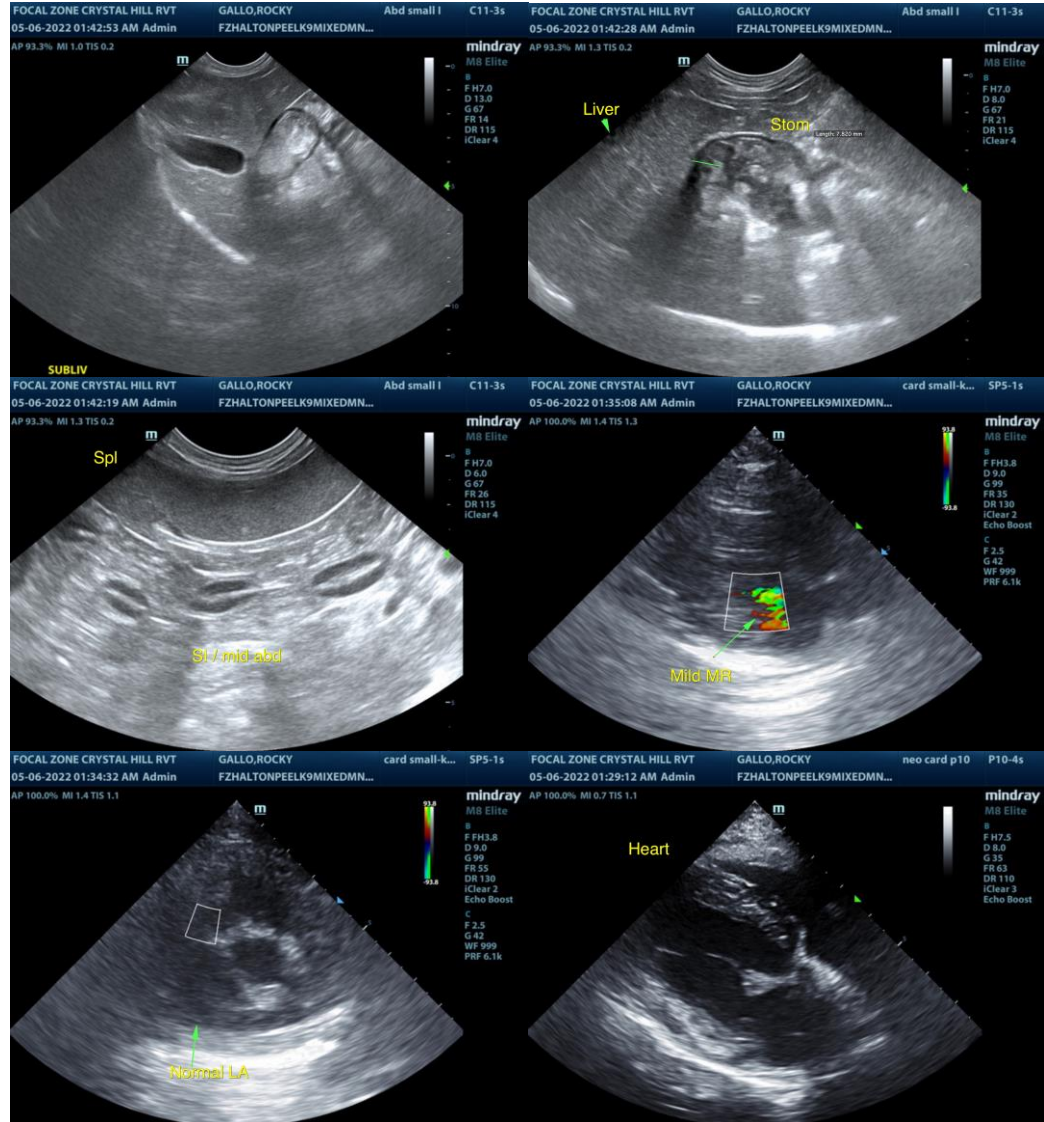
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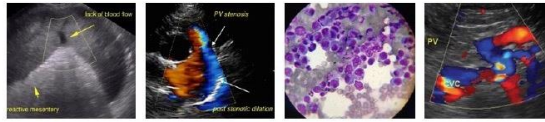
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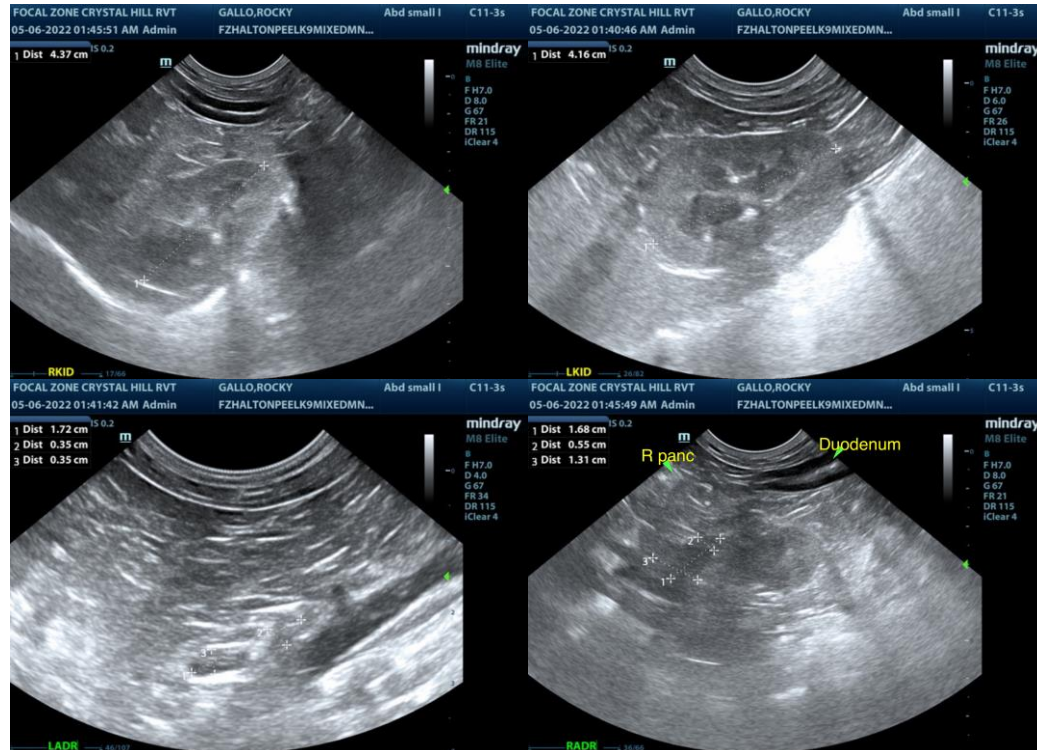
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)
info@SonoPath.com