

PATIENT

Smudge Shane

SPECIES

Feline

BREED

Domestic Shorthair

SEX

Spayed Female

AGE

9 years

WEIGHT

9.3 lbs

PRESENTING CLINICAL SIGNS

Lethargic, anorexia. Thoracic lesion. concern for neoplasia, looking for primary lesion. P recovered from hepatic lipidosis 3 years ago. Current meds: IVF, Unasyn, Miritaz.
Abnormal PE/Chem/CBC/UA Results: PLT 140, BUN 13, Glob 5.7, TP 9.4, ALP 247

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

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). The right thorax revealed a mixed, hypoechoic, undifferentiated 3.0 x 2.55 cm lung mass. The lung mass occupied the majority of the right caudal thorax. Slight free fluid was noted and envelops the regional vasculature. This does not appear resectable.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Shari Reffi, CVT

HOSPITAL NAME

Rockaway AH

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FELINE CARDIAC PARAMETERS	BODY WEIGHT (kg)	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		121	0.55	1.24	0.46	51	86
FELINE CARDIAC PARAMETERS	LA/AO (Boon)	LA/AO HEART BASE (Sisson)	LA 2D 4-chamber long axis AS to FW (Sisson) (cm)	LVOT VEL. (m/s)	RVOT VEL. (m/s)	IVRT (m/)	
NORMAL PARAMETER	<1.5	0.88-1.79	0.7-1.7	<1.6	<1.3	40-60	
PATIENT	1.3			1.1	0.8	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							



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ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

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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.

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The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some age-related loss of curvilinear patterns regarding the capsule and C/M junction. The cortices presented largely uniform texture with some increased echogenicity expected for this age patient. Medullary structure differed distinctly from that of the cortex and no evidence of pelvic dilation was present. The right kidney measured 3.74 cm. The left kidney measured 3.8 cm.

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Adrenal Glands

WEIGHT

9.3 lbs

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 0.29 cm. The left adrenal gland measured 0.39 cm.

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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. The spleen measured 0.76 cm.

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Liver

The **liver** parenchyma was uniformly hyperechoic to falciform fat without disruption of architecture. No masses were noted. A minor amount of gallbladder debris was noted along with a tortuous, mildly congested cystic duct. This presentation is most consistent with hepatic lipidosis with the minor potential for underlying lymphoma or inflammatory hepatopathy. The potential for these latter pathologies would be based on hepatic enzyme elevations and clinical profile. A 25-gauge US-guided FNA is warranted if any elevation in SAP or bilirubin is present or if anorexia is present to assess cytological disease (lipidosis or round cell neoplasia). Biopsy is warranted if an elevation in ALT is present to assess hepatic portal infrastructure yet should be done with caution owing to parenchymal fragility in these presentations.

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Gastrointestinal

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Examination of the **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. 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.

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Pancreas

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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.

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ULTRASONOGRAPHIC FINDINGS

Extensive thoracic mass.

WEIGHT

9.3 lbs

Hepatic lipidosis.

Minor gallbladder debris and tortuous mildly congested cystic duct.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

FNA with adjunctive chemotherapy is recommended. CT of the chest would be ideal for potential surgical planning. However, I do not feel that the mass is overtly resectable. There was no evidence of related abdominal pathology.

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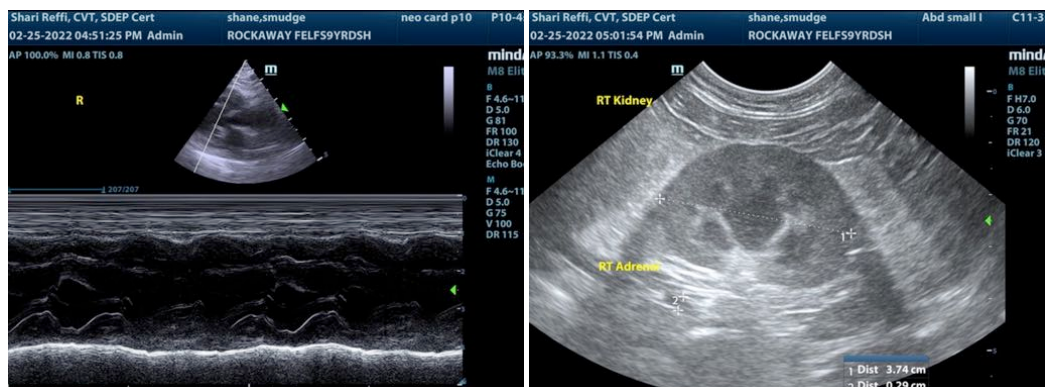
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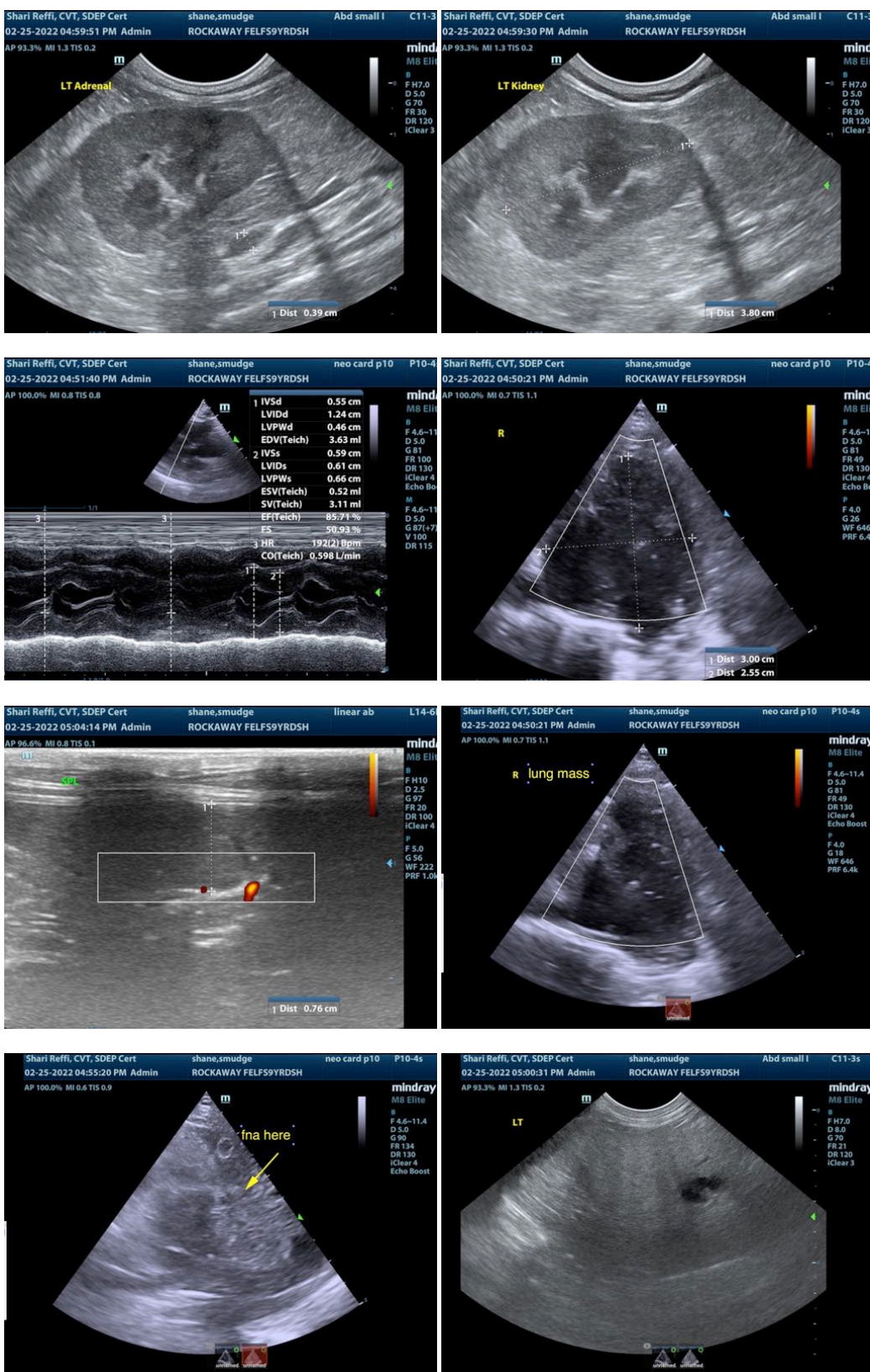
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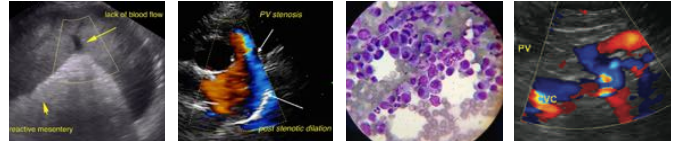
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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