

PATIENT PRESENTING CLINICAL SIGNS

Spot Bullock

History: suspect lymphoma; cardiac US last month wnl but suspected cranial mediastinal mass on rads. Also looking for abdominal LNs. currently on prednisolone, doing better.

SPECIES

Abnormal PE/Chem/CBC/UA Results: marked non-regenerative anemia, is responding to Pred. decreased platelets, decr WBC, pancytopenia.

Feline

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

BREED

Domestic Shorthair

The **left atrium** was slightly enlarged. 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). Trace **pericardial** effusion was noted and non-cardiogenic. The cranial **mediastinum and pericardial regions** were free of masses in the visible window.

SEX

Spayed Female

AGE

17 years

WEIGHT

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Diane McFadden, RVT

HOSPITAL NAME

Wantage VH

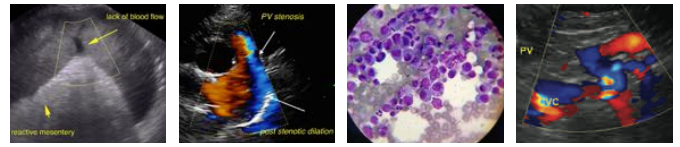
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DATE

4/12/22

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		206	0.28	1.65	0.24	60	92
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	1.15	1.25			1.3	1.1	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							



PATIENT

Spot Bullock

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN
Urinary System

SPECIES

Feline

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.

BREED

Domestic Shorthair

SEX

Spayed Female

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. Non-obstructive mineralization was noted. The right kidney measured 3.69 cm. The left kidney measured 3.44 cm.

AGE

17 years

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. The right adrenal gland measured

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Spleen

The **spleen** was enlarged with scalloping contour and measured 1.47 cm.

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Liver

The **liver** revealed multi-focal, hypoechoic, disruptive nodular changes that measured up to 0.96 cm and 0.98 cm. The gallbladder presented acceptably thin walls with primarily anechoic content. The cystic and common bile ducts were normal. Hepatic lymph node was enlarged and measured 1.85 x 1.17 cm.

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Gastrointestinal

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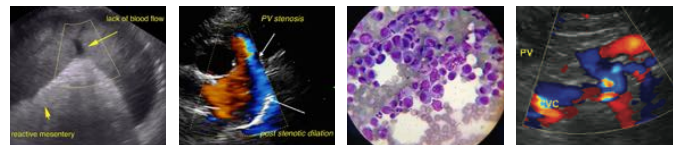
Examination of the **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. Small and large intestine demonstrated normal luminal chyme and stool consistency respectively.

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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.



PATIENT *Free Abdomen*

Spot Bullock Cranial mediastinal lymphadenopathy was noted.

SPECIES **ULTRASONOGRAPHIC FINDINGS**

Feline Infiltrative splenic pattern and multi-focal, nodular hepatic pattern. This is strongly suggestive for infiltrative disease such as round cell neoplasia.

BREED Age related renal and pancreatic changes.

Domestic Shorthair Cranial mediastinal lymphadenopathy. This is likely from spread from the abdomen.

SEX Slightly enlarged left atrium.

Spayed Female

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

AGE FNA of the spleen and liver is recommended followed by immediate chemotherapeutic intervention.

17 years

WEIGHT

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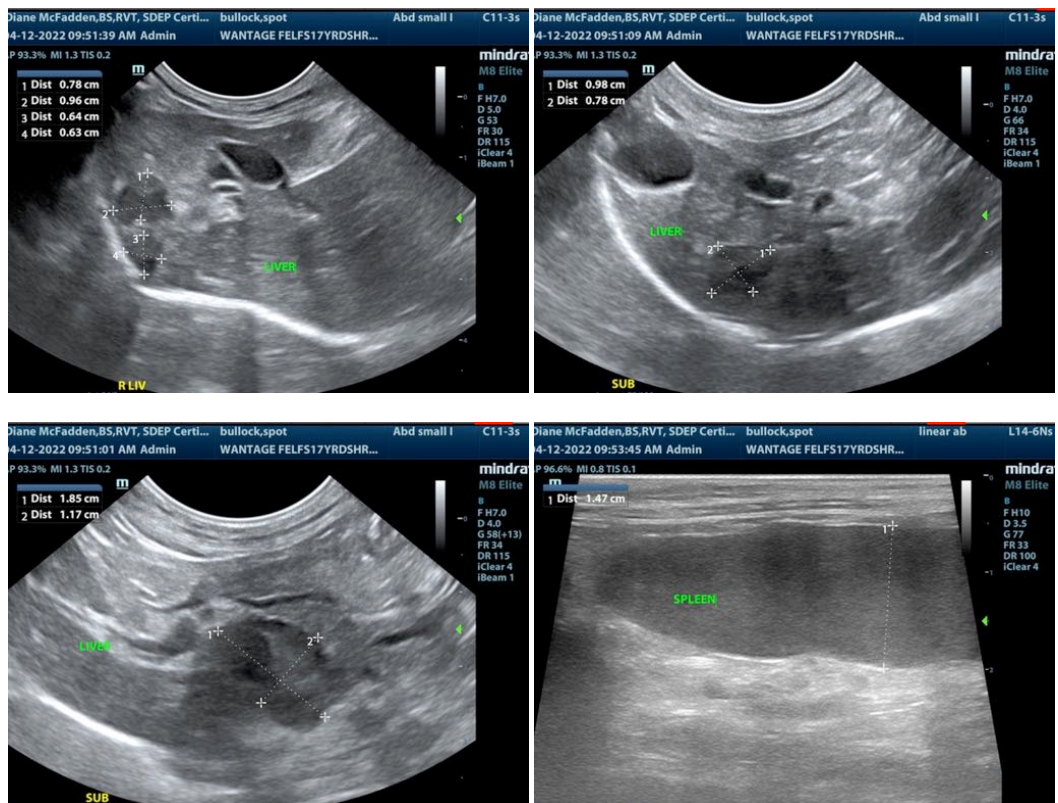
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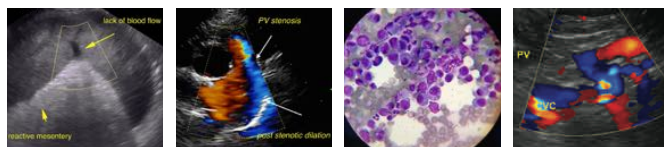
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SPECIES

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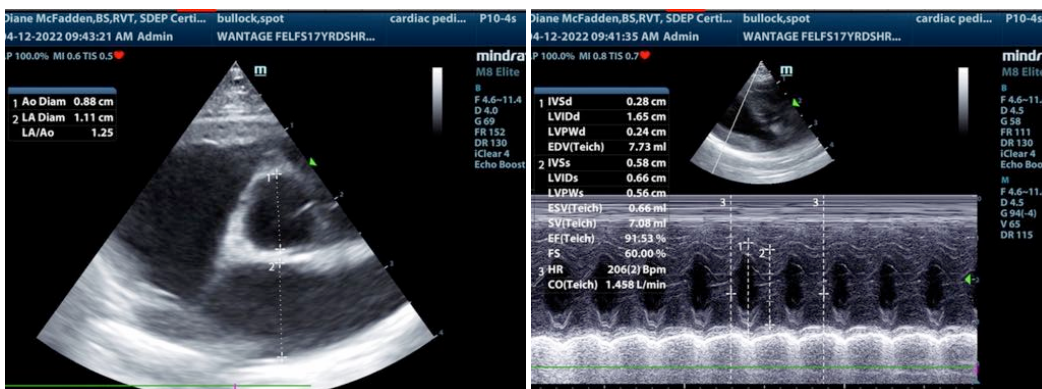
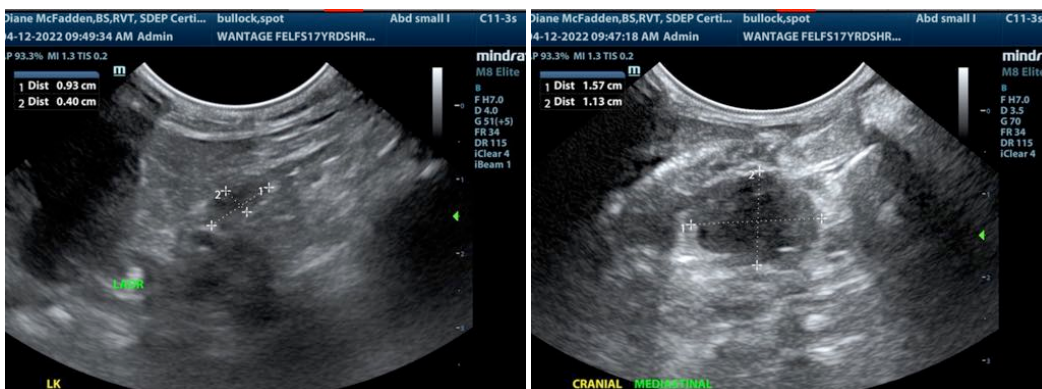
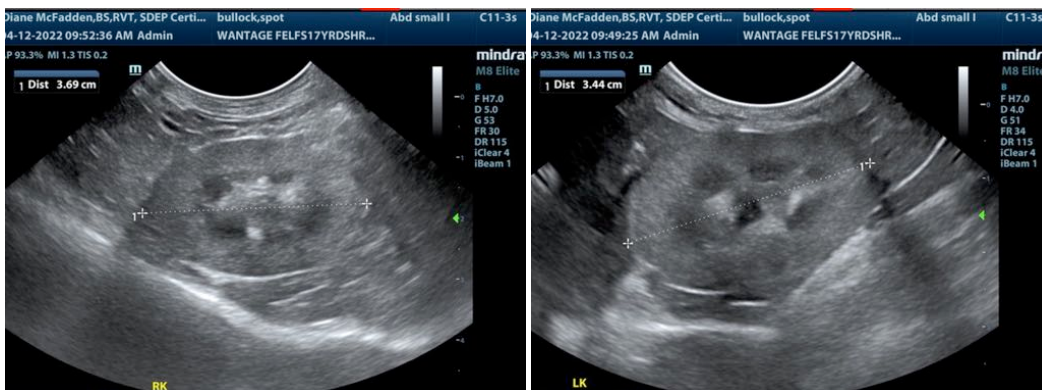
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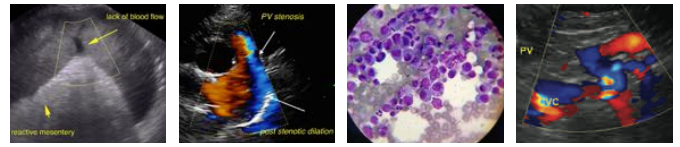
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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 Shorthair

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Info@SonoPath.com

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