



PATIENT PRESENTING CLINICAL SIGNS

Mittens Knapp

History: Large mid-abdominal mass palpated, new grade III/VI heart murmur, weight loss, decreased appetite to now ravenous appetite, inappropriate urination. No current meds.
Abnormal PE/Chem/CBC/UA Results: BW w/rDVM normal per O, still waiting on records.

SPECIES

Feline

BREED

DLH

SEX

Spayed Female

AGE

17 Years

WEIGHT

5.4 Pounds

ULTRASONOGRAPHIC EXAMINATION OF THE HEART & ABDOMEN

| 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 | -- | 223 | 0.51 | 1.35 | 0.45 | 57.8 | 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 | -- | 1.2 | 1.1 | 1.0 | 0.95 | 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 | | | | | | | |

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Shari Reffi, CVT

HOSPITAL NAME

Newton Vet

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Cardiac Presentation

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.

Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra 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 were noted.

No overt pathology in the area of the aortic trifurcation.



| | |
|--|---|
| PATIENT | Normal size and margination was 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 mild loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 3.4 cm in length. The right kidney measured 3.5 cm in length. |
| Mittens Knapp | |
| SPECIES | Adrenal Glands |
| Feline | The adrenal glands were not definitively visualized. |
| BREED | Spleen |
| DLH | The spleen exhibited potential mild volume contraction yet maintained symmetrical capsule contour and finely textured homogeneous parenchyma. No evidence of splenic neoplastic criteria. The spleen measured 0.52 cm. |
| SEX | Liver |
| Spayed Female | The liver was subjectively normal in size, structure, and contour. The liver parenchyma was mildly nonuniform and hypoechoic to the spleen with a moderate coarse echotexture and subjective mild to benign parenchymal remodeling. The hepatic and portal vasculature were normal in appearance without signs of congestion. |
| AGE | The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal. |
| 17 Years | Gastrointestinal |
| WEIGHT | The visualized discernable stomach exhibited intact wall layering. The stomach was empty with mild luminal gas and retained fluid. |
| 5.4 Pounds | A large gastrointestinal mass was present in the cranial abdomen, directly effacing the caudal aspect of the stomach, as well as caudal aspect of the liver. The mass exhibited marked mural hypertrophy, decreased echogenicity and loss of discernable wall layering. The gastrointestinal mass measured approximately 7.5 cm in diameter with wall width up to 2.5 cm. Associated segmental metabolic to paralytic ileus was present. Additional segments of small intestine exhibited intact wall layering and maintained 1:3 muscularis to mucosa ratio. |
| INTERPRETED BY | Pancreas |
| R. McKenzie Daniel, DVM, DABVP (Canine and Feline) | The pancreas was not definitively visualized owing to the presence of the large cranial abdominal gastrointestinal mass. |
| IMAGING PERFORMED BY | Free Abdomen |
| Shari Reffi, CVT | Several regional mid to cranial omental lymph nodes were present. The lymph nodes exhibited symmetrical to rounded margination with abnormal width: length ratio (>0.5). The enlarged lymph nodes were bordered by echogenic to reactive mesentery. The mesenteric root lymph nodes measured 2.0 cm x 1.3 cm. |
| HOSPITAL NAME | Mildly nonuniform reactive mesentery was noted around the gastrointestinal mass, along with mild volume peritoneal free fluid. |
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PATIENT

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Unspecified hypoechoic to nonhomogeneous mass versus lymphadenopathy noted caudoventral to the urinary bladder. This mass versus lymph node measured approximately 3.2 cm x 1.6 cm.

SPECIES

Feline

- Normal echocardiogram
- Large gastrointestinal mass- consistent with neoplastic criteria
- Associated regional hypoechoic to swollen omental lymphadenopathy, perigastrointestinal reactive mesentery and mild volume peritoneal free fluid- suspect consistent with carcinomatosis, lymphomatosis or similar
- Mild chronic renal changes
- Unspecified nonhomogeneous hypoechoic mass versus lymph node caudoventral to the urinary bladder

BREED

DLH

SEX

Spayed Female

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Assuming normal clotting status, ultrasound guided FNA of the gastrointestinal mass, enlarged lymph node +/- unspecified small mass versus lymph node adjacent to the urinary bladder, for screening cytology, oncology consult and potential for immediate chemotherapeutic intervention. Subjectively, this case does not appear to be surgical.

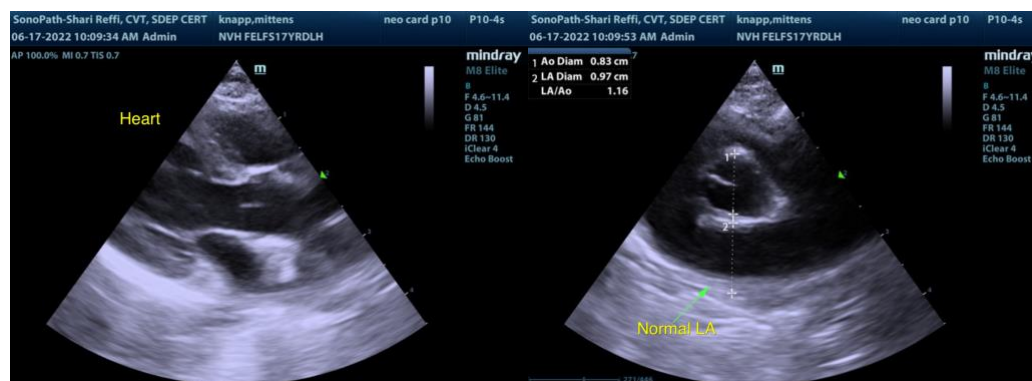
WEIGHT

5.4 Pounds

Three-view chest radiographs recommended. An unfavorable prognosis is likely indicated.

INTERPRETED BY

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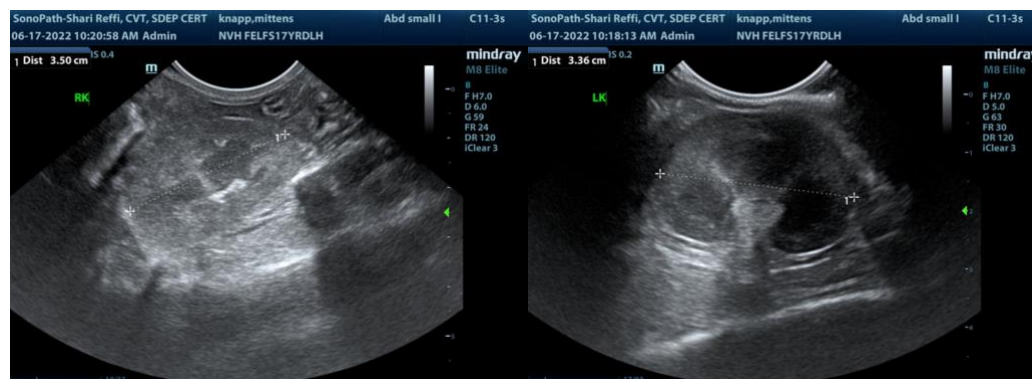


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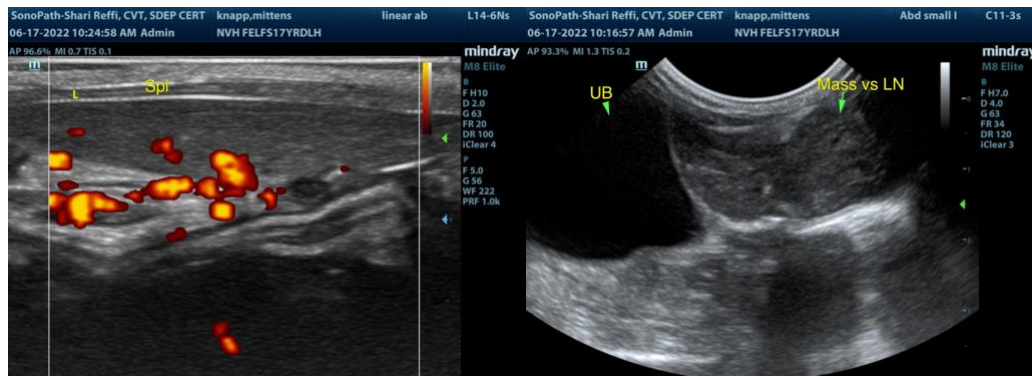
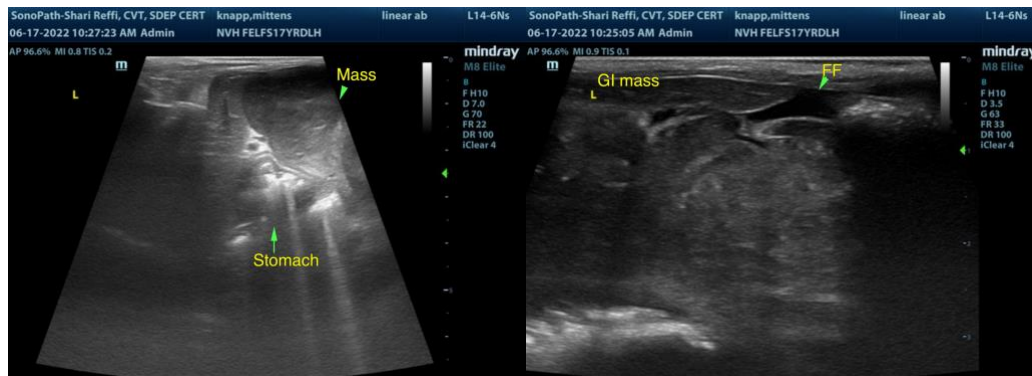
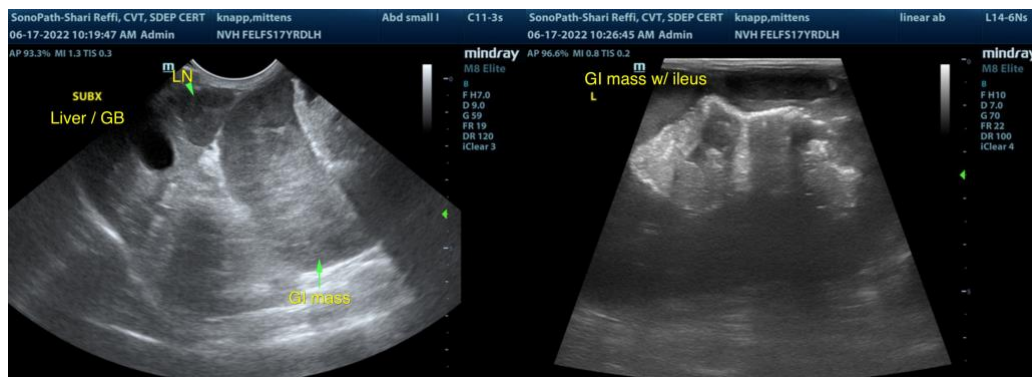
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.



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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.

SPECIES

Feline

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info@SonoPath.com

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