



PATIENT

Roomba MSAH

SPECIES

Feline

BREED

DSH

SEX

Spayed Female

AGE

14 Years

WEIGHT

3.02 kg

INTERPRETED BY

Tam Mengine, DVM,
DABVP (canine/feline
practice)

IMAGING PERFORMED BY

Amanda Stewart

HOSPITAL NAME

Main Street Animal
Hospital

REFERRING VET

Dr. Murphy

INVOICE

72627

DATE

1/30/26

PRESENTING CLINICAL SIGNS

Hind limb paralysis after hit-by-car in 2013, hx of recurrent UTIs, crystalluria on most recent urinalysis (triple phosphate), thickening of small intestines on rads (not new, seen previously on radiographs) and questionable area around mediastinum on rads.

Current Medications: RX Flexadin Advanced Cat 1T PO SID, RX Gabapentin 100mg/mL 0.3mL PO BID, RX Metacam Feline Oral 3 kg dose PO SID, RX Calming Care 1pkg SID, RX Fortiflora Pro 1pkg SID

Abnormal PE/Chem/CBC/UA Results: UA Jan 13/26: manual expression, >1.050 USG, 1+ protein, 7.0 pH, 1+ RBCs with clumping and 2+ cocci. UA Jan 27/26: free catch, 1.050 USG, 2+ protein, trace ketones (IDEXX noted as non specific and limited clinical significance), WBC 0-2/hpf, triple phosphate crystals 1-5/hpf. Radiographic Findings Radiographs done on January 13th & 15th 2026 - images to be emailed. Primary Question to Be Answered in This Exam Looking for abnormalities with bladder, heart/mediastinum and small intestines correlated with recent diagnostics.

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	3.0	151	0.4	1.2	0.4	48	84
FELINE CARDIAC PARAMETERS	LA/AO (m-mode long axis)	LA/AO HEART BASE (Sisson)	LAD LA MAX 4 Chamber	LVOT VEL. (m/s)	RVOT VEL. (m/s)	IVRT (m/)	
NORMAL PARAMETER	<1.5	<1.6	0.7-1.7	<1.6	<1.3	40-60	
PATIENT	1.3	1.3	NM	0.61	0.77	60	
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							

Cardiac Presentation

The **left atrium** is of normal size with no evidence of spontaneous echocardiographic contrast or thrombus formation. The **left ventricle** is normal in diameter with normal free wall thickness, and demonstrates good systolic function. Ventricular septum diastolic wall measurements are within normal limits. The **right atrium** is subjectively of normal size and **right ventricle** dimensions and systolic function are subjectively normal. The **mitral, tricuspid, aortic** and **pulmonary valves** all exhibit normal appearance and function, and no vegetative lesions were seen. The **main pulmonary artery** appears normal. There is no evidence of pulmonary hypertension. There is no evidence of pericardial or pleural effusion, and no masses are seen.



PATIENT

Roomba MSAH

SPECIES

Feline

BREED

DSH

SEX

Spayed Female

AGE

14 Years

WEIGHT

3.02 kg

INTERPRETED BY

Tam Mengine, DVM,
 DABVP (canine/feline
 practice)

**IMAGING
 PERFORMED BY**

Amanda Stewart

HOSPITAL NAME

Main Street Animal
 Hospital

REFERRING VET

Dr. Murphy

INVOICE

72627

DATE

1/30/26

Urinary System

The urinary bladder is moderately distended with anechoic urine. A small amount of echogenic luminal sediment is present, which is freely movable. The ureteral papillae, trigone and pelvic urethra (visible to 3.0 cm) are of normal appearance, and the ureters are not visible (normal). No masses, calculi or mucosal irregularities are noted.

The kidneys are of normal size and shape and exhibit appropriate corticomedullary differentiation with a normal 1:3 cortex to medulla ratio. There is no evidence of nephrolithiasis, mineralization, pyelectasia, cystic change or hydronephrosis. The proximal ureter is not visible (normal). Left kidney measures 3.4 cm. Right kidney measures 3.4 cm.

Adrenal Glands

The adrenal glands are both identified in their normal locations. They are normal in size and shape with appropriate parenchymal echogenicity and normal phrenic vasculature. Left measures 3.2 mm. Right measures 3.9 mm.

Spleen

The spleen is of appropriate size (7.5 mm) and has a normal, homogenous parenchyma with a smooth, continuous capsular surface. The splenic vasculature is normal with no evidence of congestion or thrombosis, and blood flow through the splenic hilus appears normal.

Liver

The liver is of appropriate size and shape, with sharp borders and a mildly coarse parenchymal echotexture that is hypoechoic to the spleen. The portal and hepatic vasculature are of normal size and appearance with no evidence of congestion or thrombosis.

The gallbladder is moderately distended with anechoic contents. The wall was thin and continuous with no focal lesions. The cystic and common bile ducts are normal / not visible.

Gastrointestinal

The stomach is empty. The gastric wall is 2.4 mm with normal deviations due to rugal folds, and exhibits appropriate wall layering. The pylorus is of normal appearance.

The visualized portions of the duodenum, jejunum, and ileum are of normal thickness with intact wall layering that exhibits the appropriate 1:3 muscularis to mucosa ratio. Intestinal motility appears normal.

The visible portions of the colon are of normal thickness (1.2 mm) with intact wall layering. The ileocecal junction is normal.

Pancreas

The areas of the limbs and body of the pancreas are isoechoic to the surrounding mesenteric fat, with normal capsular appearance. There is no evidence of peripancreatic inflammation. The pancreatic duct appears normal.



PATIENT

Roomba MSAH

SPECIES

Feline

BREED

DSH

SEX

Spayed Female

AGE

14 Years

WEIGHT

3.02 kg

INTERPRETED BY

Tam Mengine, DVM,
DABVP (canine/feline
practice)

**IMAGING
PERFORMED BY**

Amanda Stewart

HOSPITAL NAME

Main Street Animal
Hospital

REFERRING VET

Dr. Murphy

INVOICE

72627

DATE

1/30/26

Free Abdomen

There is no evidence of free fluid within the peritoneal cavity. The omentum and intra-abdominal fat are of appropriate echogenicity. Enlarged abdominal lymph nodes are not observed. The aortic trifurcation has normal blood flow with no evidence of thrombosis.

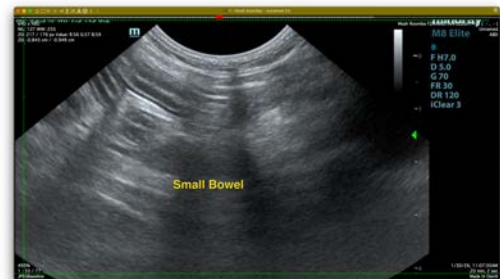
PRIMARY FINDINGS

- Structurally and functionally unremarkable feline heart
- Unremarkable feline abdomen

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

There is no evidence of cardiac disease or pericardial / mediastinal masses on today's echocardiogram. The subjectively enlarged cardiac silhouette on radiographs is likely secondary to the presence of pericardial fat. While there is no evidence of cardiac disease today, this patient could develop acquired cardiac disease in the future, just like any cat. Thus, should a murmur develop, or symptoms of cardiac disease occur in the future, a recheck echocardiogram would be indicated.

There is a small amount of suspended sediment within the urine bladder, which is considered normal for a cat. There is no evidence of cystitis at this time, though the patient's paralysis does increase the risk for recurrent ascending infections. The gastrointestinal tract is of normal appearance. If the patient is having gastrointestinal symptoms, then additional investigation via fecal parasite testing, a GI panel with TLI/PLI / Cobalamin / Folate, and potentially a hydrolyzed diet trial would be suggested as further investigation.





PATIENT

Roomba MSAH

SPECIES

Feline

BREED

DSH

SEX

Spayed Female

AGE

14 Years

WEIGHT

3.02 kg

INTERPRETED BY

Tam Mengine, DVM,
DABVP (canine/feline
practice)

**IMAGING
PERFORMED BY**

Amanda Stewart

HOSPITAL NAME

Main Street Animal
Hospital

REFERRING VET

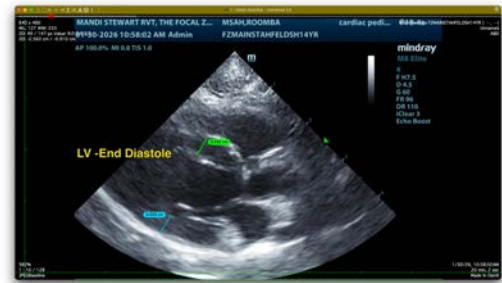
Dr. Murphy

INVOICE

72627

DATE

1/30/26



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.

Tam Mengine, DVM, DABVP (canine/feline practice)

info@SonoPath.com