



PATIENT PRESENTING CLINICAL SIGNS

Meow McFadden

History: Hx of diarrhea over the last 2 months; some resolution with metronidazole and fortiflora but still has episodes of explosive loose stool. No vomiting; appetite good. Did urinate in the bathtub which is out of character

SPECIES

Abnormal PE/Chem/CBC/UA Results: pending

Feline

BREED

Domestic Shorthair

SEX

Neutered male

AGE

14 years

WEIGHT

-

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. Mild **tricuspid** insufficiency was noted at 3.0 m/sec. 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.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Diane McFadden, RVT

HOSPITAL NAME

Sonovet

REFERRING VET

Dr. Lindquist

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DATE

1/2/23

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		160	0.3	1.7	0.4	38	72
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	1.38		1.5		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

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Meow McFadden

Urinary System

SPECIES

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.

Feline

BREED

The **kidneys** presented a relatively uniform cortical hyperechogenicity when compared to the renal medulla, spleen and liver. No overt masses were noted. Corticomedullary definition was nebulous and the ratio favored the cortex slightly. The ureters were not visible and assumed to be normal. These changes are most consistent with chronic interstitial nephritis yet infiltrative disease could not be entirely ruled out without biopsy though neoplasia is not suspected. Corticomedullary mineralization was noted. The right kidney measured 3.88 cm. The left kidney revealed minor pyelectasia and cortical infarcts with interstitial nephrosis pattern. The left kidney measured 6.0 cm.

Domestic Shorthair

SEX

Neutered male

AGE

Adrenal Glands

14 years

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 0.34 cm. The left adrenal gland measured 0.3 cm.

WEIGHT

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Spleen

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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.

Eric Lindquist, DMV
DABVP, Cert. IVUSS

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Liver

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The **liver** images submitted revealed subjectively normal liver size, contour, and structure. Parenchymal echogenicity was naturally coarse and hypoechoic to the spleen. Vascular and biliary tracts were of normal volume with no evidence of congestion. The gallbladder presented acceptably thin walls with primarily anechoic content. The cystic and common bile ducts were normal. No pathological hepatic lymphadenopathy was evident. No overt structural evidence of inflammatory, infiltrative or regenerative pathology was evident.

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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. There was minor shadowing luminal material. This is consistent with post prandial presentation. Small and large intestine demonstrated normal luminal chyme and stool consistency respectively. The mesenteric lymph nodes were mildly enlarged and reactive measuring up to 0.8 cm.

1/2/23



PATIENT *Pancreas*

Meow McFadden

The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Some parenchymal remodeling, however, with mild deviation from curvilinear normalcy was observed. Pancreatic duct and capsular irregularities were present consistent with age related changes. If pain upon imaging (+ Murphy sign) was present or if the patient is focally painful in subxiphoid palpation then low-grade smoldering chronic pancreatitis should be suspected.

SPECIES

Feline

BREED

Domestic Shorthair

ULTRASONOGRAPHIC FINDINGS

Structurally unremarkable GI tract with post prandial presentation. I cannot rule out possible gastric foreign matter. Otherwise, structurally unremarkable GI tract otherwise.

SEX

Neutered male

Reactive mesenteric lymph nodes.

AGE

14 years

Mild, chronic pancreatic changes.

Chronic interstitial nephrosis with mineralization.

Mild tricuspid insufficiency. Otherwise, structurally unremarkable.

WEIGHT

-

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Anti-parasitic protocol, diet change to hydrolyzed diet and fecal exam are all indicated. However, there was no structural evidence of neoplasia.

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Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

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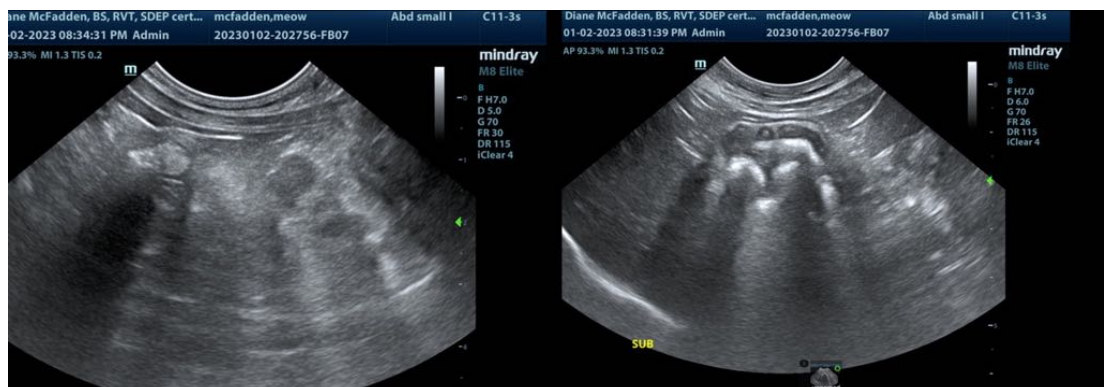
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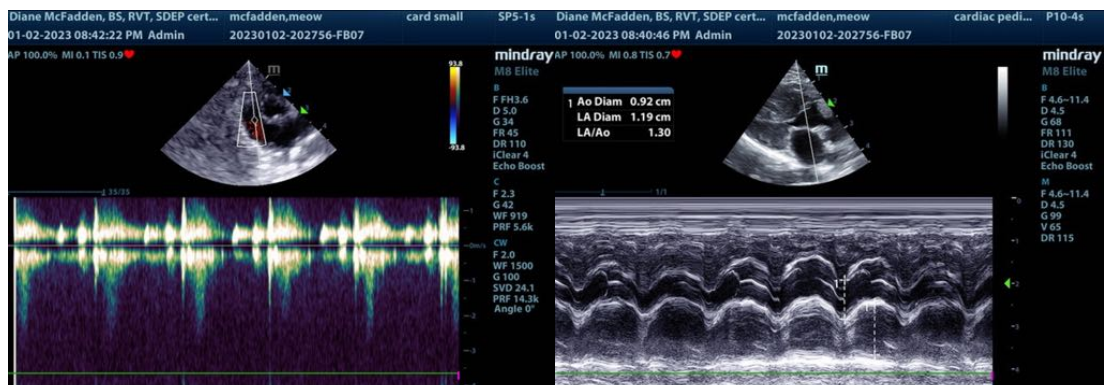
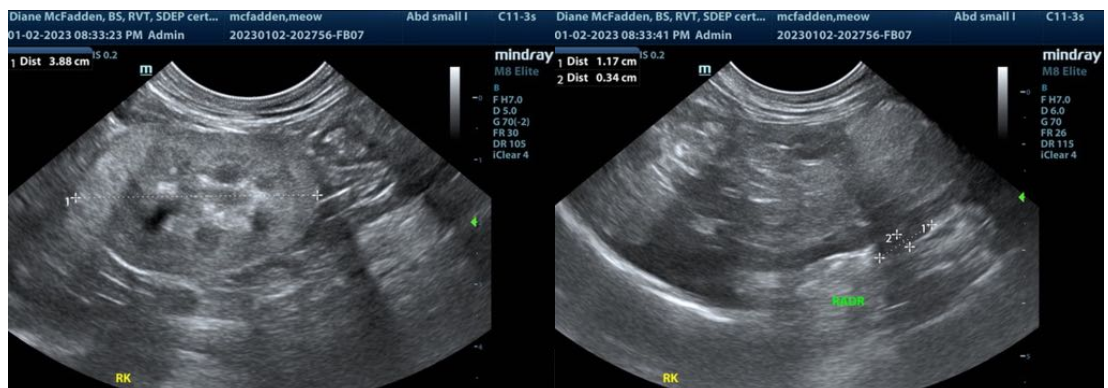
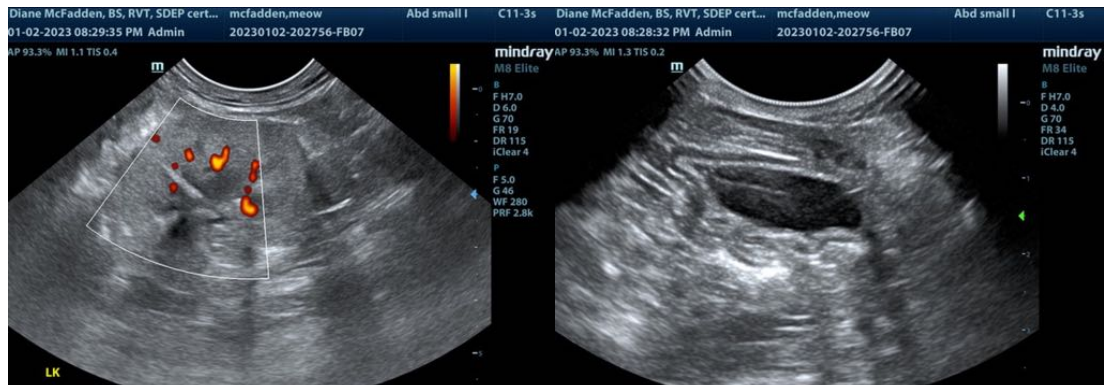
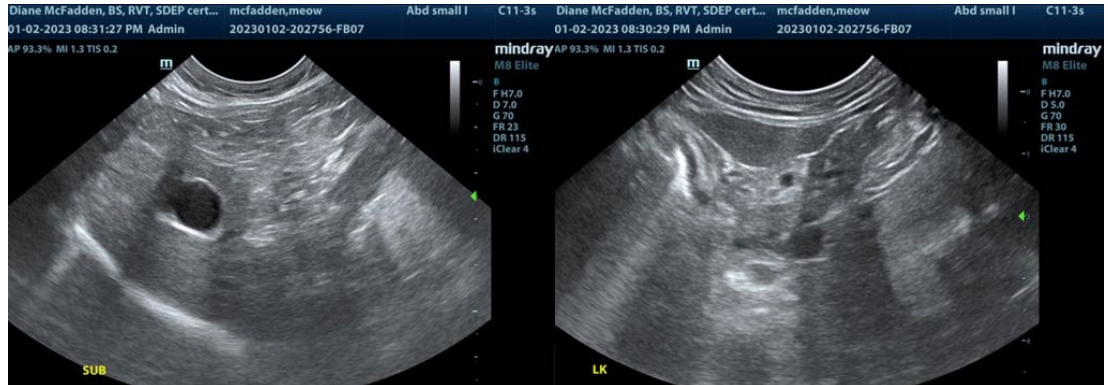
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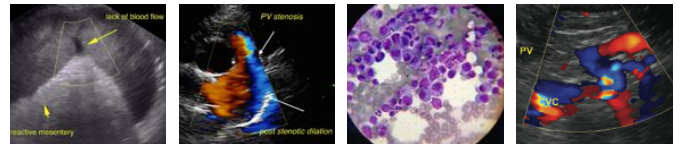
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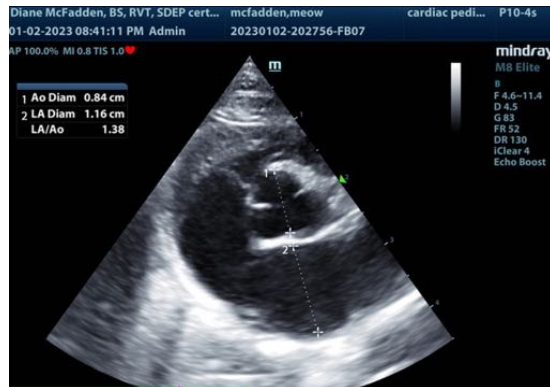
Neutered male

AGE

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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.

Eric Lindquist, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com
Info@SonoPath.com

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