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Clinical Sonography & Telecytology
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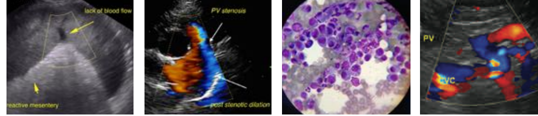


imagine SOUND LLC.
IMAGING PERFORMED BY
dbimaginesound@gmail.com 917-647-4318

PATIENT

Benny McElwreath

SPECIES

Feline

BREED

DSH

SEX

Spayed Female

AGE

2009

WEIGHT

11.68 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert IVUSS

IMAGING PERFORMED BY

Denise Bruno, LVT,
RDMS

HOSPITAL NAME

Brooklyn Heights VH

REFERRING VET

Dr. Thomson

INVOICE

91703

DATE

09/07/21

PRESENTING CLINICAL SIGNS

History: Weight loss, prominent

Vocalizing at night

BW NSF

BP Normal

Evaluate for IBD, dementia, occult neoplasia

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

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.

The **kidneys** revealed normal size and structure, corticomedullary definition and ratio for this age. The cortices presented largely uniform texture with normal echogenic relationship to liver and spleen. Medullary structure differed distinctly from the cortex and no evidence of pelvic dilation was present. The capsules were acceptably uniform without significant irregularities. A cortical infarct was noted at the cranial pole of the right kidney. The right kidney measured 3.83 cm. A cortical cyst was noted in the left kidney and measured 0.47 cm. The left kidney measured 3.68 cm.

Adrenal Glands

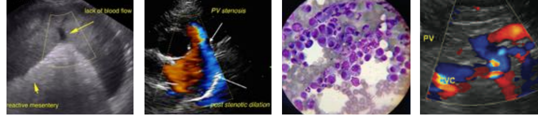
Both **adrenal glands** were visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. The right adrenal gland measured 0.5 cm. The left adrenal gland measured 0.32 cm.

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.

Liver

The **liver** images from right and left intercostal as well as subcostal views revealed subjectively normal liver size, contour, and structure. Some age-related parenchymal remodeling was noted but likely not clinically significant at this time. Minor increased portal markings were noted. Vascular and biliary tracts



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were of normal volume and no evidence of congestion was noted. The gallbladder wall was slightly echogenic and measured 0.2 cm.

Gastrointestinal

The **gastrointestinal** presentation revealed mild uniform prominence of the gastric mucosa as well as areas of "ropey" small intestinal wall with slight disruption of the normal 1:3 muscularis/mucosal ratio. The intestinal submucosa was slightly irregular, thickened and hyperechoic suggestive of low grade, chronic disease. Wall thickness measured 1.37 cm. The mesenteric lymph nodes were reactive and measured 1.23 x 0.64 cm. No evidence of obstruction was present. Chronic inflammatory bowel disease is likely with a low possibility of an early neoplastic event such as lymphoma. Full thickness tissue biopsies via open laparotomy, ideally guided by intraoperative ultrasound in order to obtain the most representative mural sample, would be necessary to rule out this possibility.

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.

ULTRASONOGRAPHIC FINDINGS

Right renal infarct.

Mild intestinal thickening.

Reactive mesenteric lymphadenopathy.

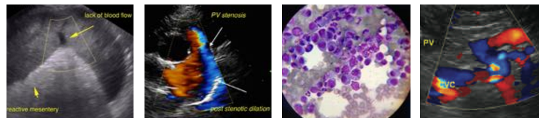
INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

There was no obvious neoplastic criteria noted in this patient. Malassimilation of nutrients may be the primary issue. Maldigestion panel, three view chest radiographs and full CNS examination is recommended to examine for occult disease that could be responsible for the weight loss. Evaluation for competitive eating environments should also be considered. A clinical trial of the following may prove effective. Full thickness intestinal and lymph node biopsies could be considered for definitive diagnosis.

Triaditis/Pancreatitis protocol

Part or all of this protocol may be considered based on your clinical impression of the patient:

Recommend pain management when anorexic with **Buprenorphine** (0.01-0.02 mg/kg IM or SC), clinical trial of **Zithromax** (50 mg sid/cat x 10 days, 3 weeks if bartonella +), **Prednisolone** (0.5-2 mg/kg tapering over 1 week to minimal effective dose), and **B12 injections** if weight loss (Cyanobalamine 250 mcg sub-q once-weekly x six weeks, then every other week for six weeks and then once-monthly, long-term if necessary), **novel-protein or hydrolyzed diet (***Hydrolyzed diets have been shown to be more effective in dietary intolerance case management compared to hypoallergenic diets***)** or the **magical Purina DM** (changing protein source is crucial and may need rotation every 6 months if clinical signs recur) Diet trials is a whatever works phenomenon. If vomiting becomes a persistent issue then endoscopy would be warranted and/or recheck sonogram to assess more emerging disease. One diet does not work for all



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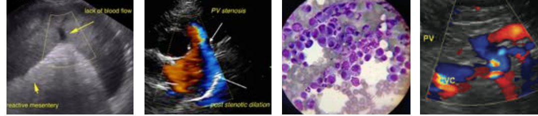
patients so different trials may be necessary or protein source rotation every 6 months as new sensitivities develop.



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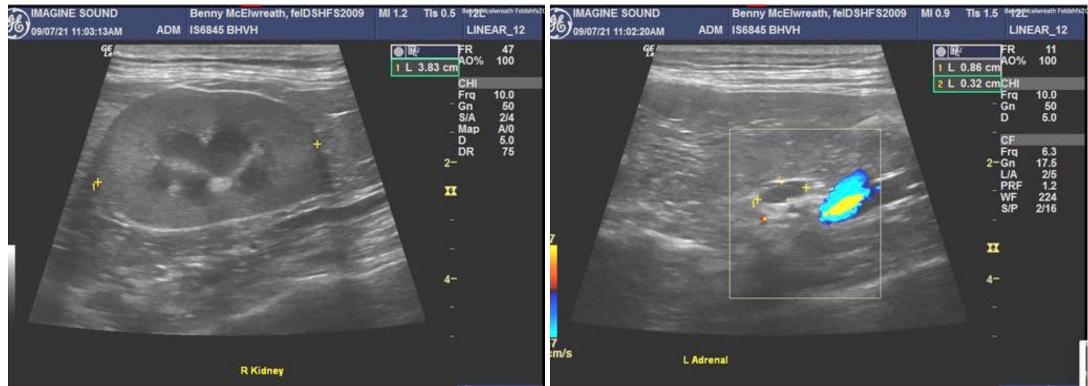

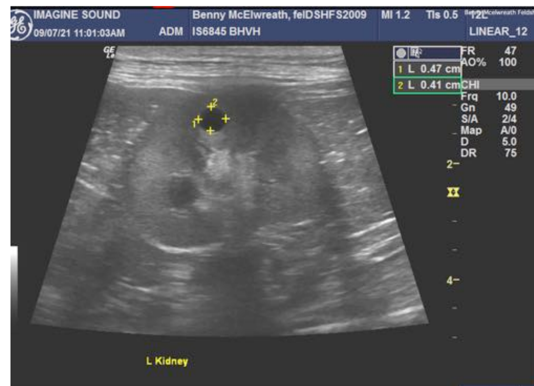

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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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
Eric.Lindquist@SonoPath.com