



**PATIENT**

Pipper Steele

**SPECIES**

Canine

**BREED**

Yorkie

**SEX**

Neutered Male

**AGE**

13 Year

**WEIGHT**

2.4 kg

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Erin Wicks

**HOSPITAL NAME**

Shores VEC

**REFERRING VET**

Dr. Nelson

**INVOICE**

16780

**DATE**

8/8/22

**PRESENTING CLINICAL SIGNS**

History: Presented at our hospital for not eating. O went away over the weekend. Thursday, O's son fed him onion rings and some hamburger from Burger King. Previous Health Concerns: Early kidney disease diagnosed in Dec, UTI

Abnormal PE/Chem/CBC/UA Results: Abdominal: tense and tucks away with palpation 1) CBC – WBC 37.17; NEU# 33.90; BAS # 0.13; NEU% 91.2; LYM% 4.4 2) Chem/EPOC – BUN 29.2; Ca 7.8; ALB 2.3; GLOB 3.7; TCHO 353; ALT 835; ALP 673; GGT 29; Tbili 0.6 3) cPL – normal 4) Lepto Witness - negative

**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 were noted. Ureteral papillae were normal.

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some moderate 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 his age patient. Medullary structure differed distinctly from that of the cortex and no evidence of pelvic dilation was present. Mineralization was present in the kidneys. The left kidney measured 3.07 cm. The right kidney measured 2.88 cm.

**Adrenal Glands**

The **left adrenal gland** was visualized and recognized as having largely normal shape, size, position and acceptable echogenicity for this age group and breed. Some heterogeneity was noted within the adrenal parenchyma without concerning capsular distortion. These changes are mild and likely age related but should be monitored by sonogram should the patient be suspected of having adrenal disease. The left adrenal gland measured 1.45 cm x 0.58 cm at the cranial pole and 0.44 cm at the caudal pole.

The region of the **right adrenal gland** was unremarkable.

**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 were noted. Cranial folding of the spleen was noted.

**Liver**

The **liver** was mildly subnormal. in size with increased portal markings. The gallbladder and common bile duct were normal. No evidence of posthepatic obstruction. No evidence of neoplasia.

**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. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.

## SPECIES

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## Pancreas

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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 subxyphoid palpation then low-grade smoldering chronic pancreatitis should be suspected. No evidence of significant inflammation.

## SEX

Neutered Male

## ULTRASONOGRAPHIC FINDINGS

- Acute on chronic inflammatory hepatopathy/cholangiohepatitis
- Moderate degenerative renal changes with mineralization
- Age-related pancreatic changes
- Splenic fold

## AGE

13 Year

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

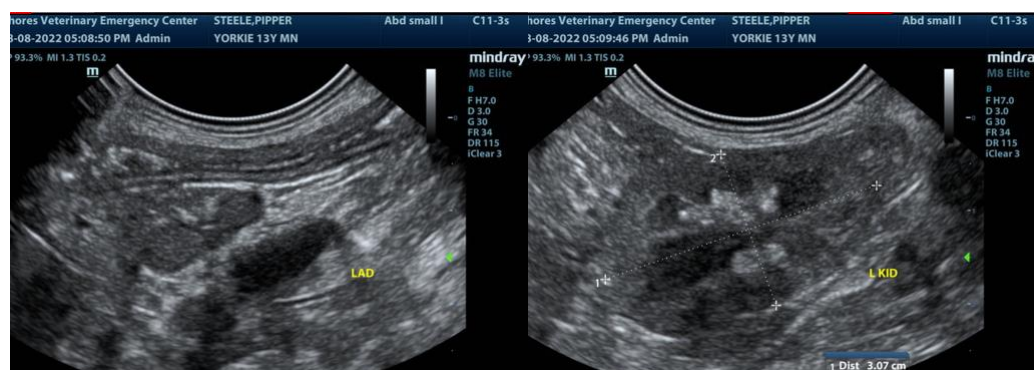
## WEIGHT

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Acute insult such as Leptospirosis, mushroom toxicity or similar should be considered. Liver biopsy or FNA is indicated. Leptospirosis titers indicated. Ampicillin/metronidazole combination is recommended.

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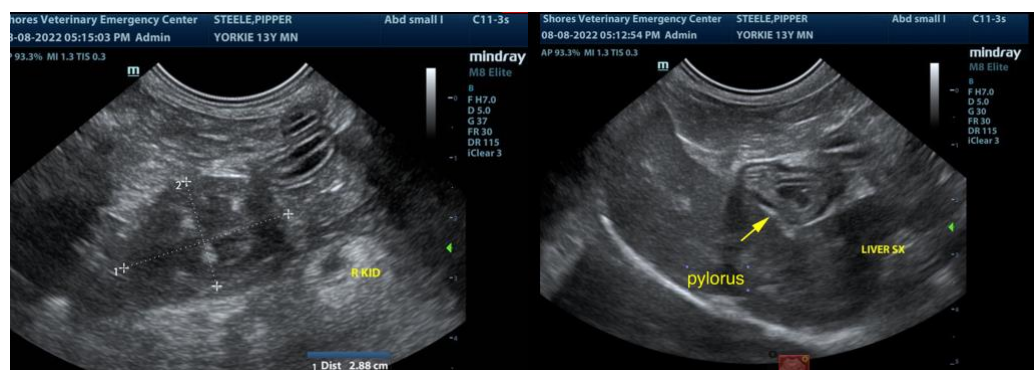


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## REFERRING VET

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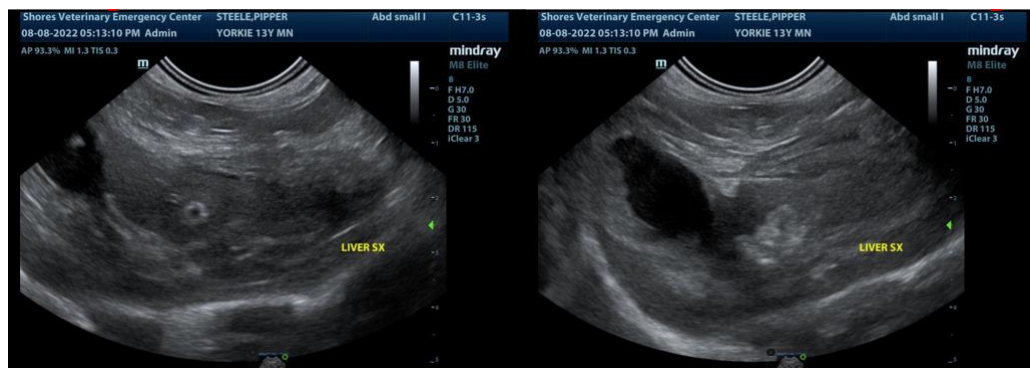
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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  
info@SonoPath.com