

PATIENT PRESENTING CLINICAL SIGNS

Lily Bracewell

13-year-old, FS Chihuahua, has lost 0.4 kg since May last year. Over the last weekend, reduced appetite, vomiting, appeared to be acute in nature. Bloodwork last may unremarkable. Bloodwork shows severe SDMA elevation and azotemia. Concern that patient has severe renal disease or neoplasia/lymphoma. No known toxic ingestions. Typically monitored by owners all the time. Some ataxia noted with gait.

SPECIES

Canine

BREED

Chihuahua

Abnormal PE/Chem/CBC/UA Results: UA: SG 1.013, sediment otherwise quiet Bloodwork: SDMA 77 H - severe Crea 198 - H moderate Urea 46.4 H - severe Amy 1661 H - mild K, Cl and TT4 mild Low mild anemia and mild-moderate lymphopenia

SEX

Spayed Female

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

AGE

13 years

Urinary System

The urinary bladder is moderately distended with anechoic urine. The Bladder wall, trigone, ureteral papillae, and visible urethra (to a depth of 2cm) appear normal with no evidence of wall thickening, mucosal irregularities, masses, or cystic calculi.

WEIGHT

1.3kg

The left kidney appears irregular and slightly small measuring 2.4 cm, with a hyperechoic cortex and intact corticomedullary distinction. There is no evidence of focal perinephric inflammation or effusion. There is no evidence of nephroliths, infarcts or hydronephrosis. Renal vasculature is normal.

INTERPRETED BY

Kathleen Sennello DVM,
MS, Diplomate ACVIM
(Small Animal Internal
Medicine)

The right kidney is borderline small and irregular at 2.5 cm, with a hyperechoic cortex. Adequate corticomedullary distinction and a typical 1:3 cortex: medulla ratio. There is no evidence of focal perinephric inflammation or effusion. There is no evidence of nephroliths, infarcts or hydronephrosis. Renal vasculature is normal.

IMAGING PERFORMED BY

Jessica Morgan, RVT

Adrenal Glands

The region of left adrenal (Cranial to left renal artery) is unremarkable but the adrenal is not distinctly visualized. No evidence of a mass effect.

HOSPITAL NAME

Oxford County
Veterinary Clinic

The right adrenal gland is normal in size measuring 0.51 cm at the caudal pole. It is observed in its normal position between the cranial aspect of the right kidney and the caudal vena cava. It is normal in appearance (uniformly hypoechoic) and shape with no evidence of a mass effect.

REFERRING VET

Dr. Shana Halfon

Spleen

The spleen is not clearly seen.

INVOICE

10070

Liver

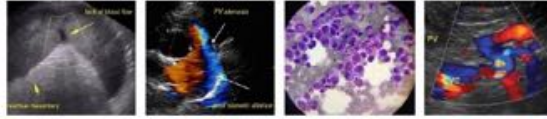
The liver is subjectively normal in size, and echogenicity with smooth peripheral margins. The parenchyma is homogenous echotexture. The visible portions of the vasculature and biliary tract appear normal. No focal nodules or cystic lesions are observed.

DATE

2/24/2023

Gastrointestinal

The gall bladder lumen is moderately distended. The wall of the gall bladder is not thickened and has a smooth mucosal surface. There is a mild amount of non-organized echogenic debris. The cystic and common bile ducts are normal/not visible.



PATIENT

Lily Bracewell

The stomach contains minimal luminal contents. It measures at a normal thickness of <0.7cm with some variability due to the presence of rugal folds. The distinction of the gastric wall layers is adequate and there is no impression of reduced peristaltic activity. No masses or focal lesions were observed.

SPECIES

Canine

The visualized areas of duodenum, jejunum and ileum have a relatively uniform diameter with minimal fluid distension. Wall thickness is normal. Bowel loops follow a curvilinear path with distinct wall layering maintaining the typical 1:3 muscularis: mucosa layer ratio. The jejunum measured as normal (0.27 cm.) Visualized peristalsis appears appropriate. There were no focal lesions consistent with obstruction or a mass effect observed.

BREED

Chihuahua

SEX

Spayed Female

The ileocecal junction was visualized and exhibited normal intact wall layering and is subjectively of normal thickness. Sections of colon are visualized with formed fecal material and gas shadowing distally. There is no observed focal or generalized colon wall thickening or loss of layering.

AGE

13 years

Pancreas

The region of the pancreas is normal and isoechoic to surrounding mesentery. There is no evidence of nodules or cystic lesions. There is no evidence of regional mesenteric inflammation or fluid.

WEIGHT

1.3kg

Free Abdomen

Evaluation of the peritoneal cavity did not reveal any evidence of effusion, or subjective lymphadenomegaly. The Medial iliac nodes appear normal and there was no evidence of a caudal aortic thrombus at the bifurcation. The omentum is of normal uniform echogenicity.

INTERPRETED BY

Kathleen Sennello DVM,
MS, Diplomate ACVIM
(Small Animal Internal
Medicine)

PRIMARY FINDINGS

- Resolution on the kidneys is somewhat poor making full evaluation challenging. Additionally, color flow and sagittal and transverse views would help to try and determine if the hypoechoic medullary region is consistent with pyelectasia or just a hypoechoic medulla. The left kidney appears somewhat irregular, and they both appear somewhat borderline small. No mineralization or mass effects are noted.

IMAGING PERFORMED BY

Jessica Morgan, RVT

HOSPITAL NAME

Oxford County
Veterinary Clinic

REFERRING VET

Dr. Shana Halfon

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

I was not able to distinctly visualize the spleen or the hilus. Consider significantly reducing your depth so as to image superficial structures with higher resolution. Additionally, there was some gas in the GI tract, shadowing some of the cranial abdominal structures making visualization challenging. I will ask technical to reach out and helping you with your settings. If you have additional views available for the spleen and kidneys that you feel might be helpful, I am happy to evaluate them.

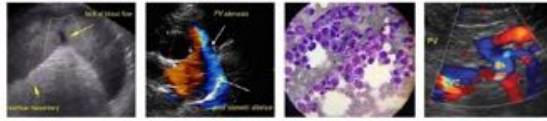
INVOICE

10070

As with any azotemic patient I would recommend a blood pressure, urinalysis, and culture. Additionally, screening for leptospirosis if clinically appropriate, and looking for any evidence of pyelonephritis on the urinalysis.

DATE

2/24/2023



PATIENT

Lily Bracewell

SPECIES

Canine

BREED

Chihuahua

SEX

Spayed Female

AGE

13 years

WEIGHT

1.3kg

INTERPRETED BY

Kathleen Sennello DVM,
MS, Diplomate ACVIM
(Small Animal Internal
Medicine)

**IMAGING
PERFORMED BY**

Jessica Morgan, RVT

HOSPITAL NAME

Oxford County
Veterinary Clinic
REFERRING VET

Dr. Shana Halfon

INVOICE

10070

DATE

2/24/2023



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.

Kathleen Sennello DVM, MS, Diplomate ACVIM (Small animal Internal Medicine)

kathleen.sennello@sonopath.com