

**DATE PRESENTING CLINICAL SIGNS**

10/15/21

PATIENT

History: Came in for exam of growth in mouth on 7/7/21, surgery was recommended so pre-operative labs were performed and elevated kidney enzymes noted on labs. UA showed moderately concentrated urine, started on k/d, SDMA increased and Creat mildly lower at recheck labs 2 months after starting k/d.

Storm Newcomb

SPECIES

Lab Results & Radiographs: Attached
 Date of Previous IntraPet Ultrasound: No previous
 Sedation: ace, gabapentin, dexdomitor
 Stat Report: not requested

Canine

BREED**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

Bernese Mt. Dog

SEX**Urinary System**

The urinary bladder is moderately distended with anechoic urine. The Bladder wall, trigone, ureteral papillae and visible urethra (to a depth of 2.0 cm) appear normal with no evidence of wall thickening, mucosal irregularities, masses or cystic calculi.

Neutered Male

AGE

The visualized areas of prostate and surrounding tissue appear normal. Unfortunately, the prostate is not fully visualized likely due to its intrapelvic location. Correlate with rectal exam findings.

2017

WEIGHT

The left kidney has a normal shape and size (7.25 cm). Overall echogenicity is normal with adequate corticomedullary distinction and a typical 1:3 cortex:medulla ratio. There is no evidence of perinephric inflammation or effusion. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

119.2 Pounds

INTERPRETED BY

The right kidney has a normal shape and size (6.92 cm). Overall echogenicity is normal with adequate corticomedullary distinction and a typical 1:3 cortex:medulla ratio. There is no evidence of perinephric inflammation or effusion. There is no evidence of pyelectasia, nephroliths, infarcts or hydroureter. Renal vasculature is normal.

Kathleen Sennello DVM,
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 Medicine)

HOSPITAL NAME**Adrenal Glands**

The left adrenal gland is normal in size measuring 0.88 cm. It is observed in its normal position cranial to the left renal artery. It is normal in appearance (uniformly hypoechoic) and shape with no evidence of a mass effect.

Animal Care Center

REFERRING VET

The right adrenal gland is normal in size measuring 0.77 cm. 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.

INVOICE**Spleen**

The spleen is subjectively normal in size, echotexture is homogenous, and the splenic capsule is smooth with no irregularities. The blood flow through the hilus and splenic parenchyma appears normal. No focal parenchymal abnormalities are visualized.

13780

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. The gall bladder lumen is moderately distended. The wall of the gall bladder is not thickened and has a smooth mucosal surface. Luminal contents are primarily anechoic. The cystic and common bile ducts are normal/not visible.

Gastrointestinal

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.

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 duodenum measured as normal and the jejunum measured as normal (0.32 cm) Visualized peristalsis appears appropriate. There were no focal lesions consistent with obstruction or a mass effect observed.

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.

Pancreas

The (pancreas/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.

Free Abdomen

Evaluation of the peritoneal cavity did not reveal any evidence of effusion, or subjective lymphadenomegally (list if measurements given). 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.

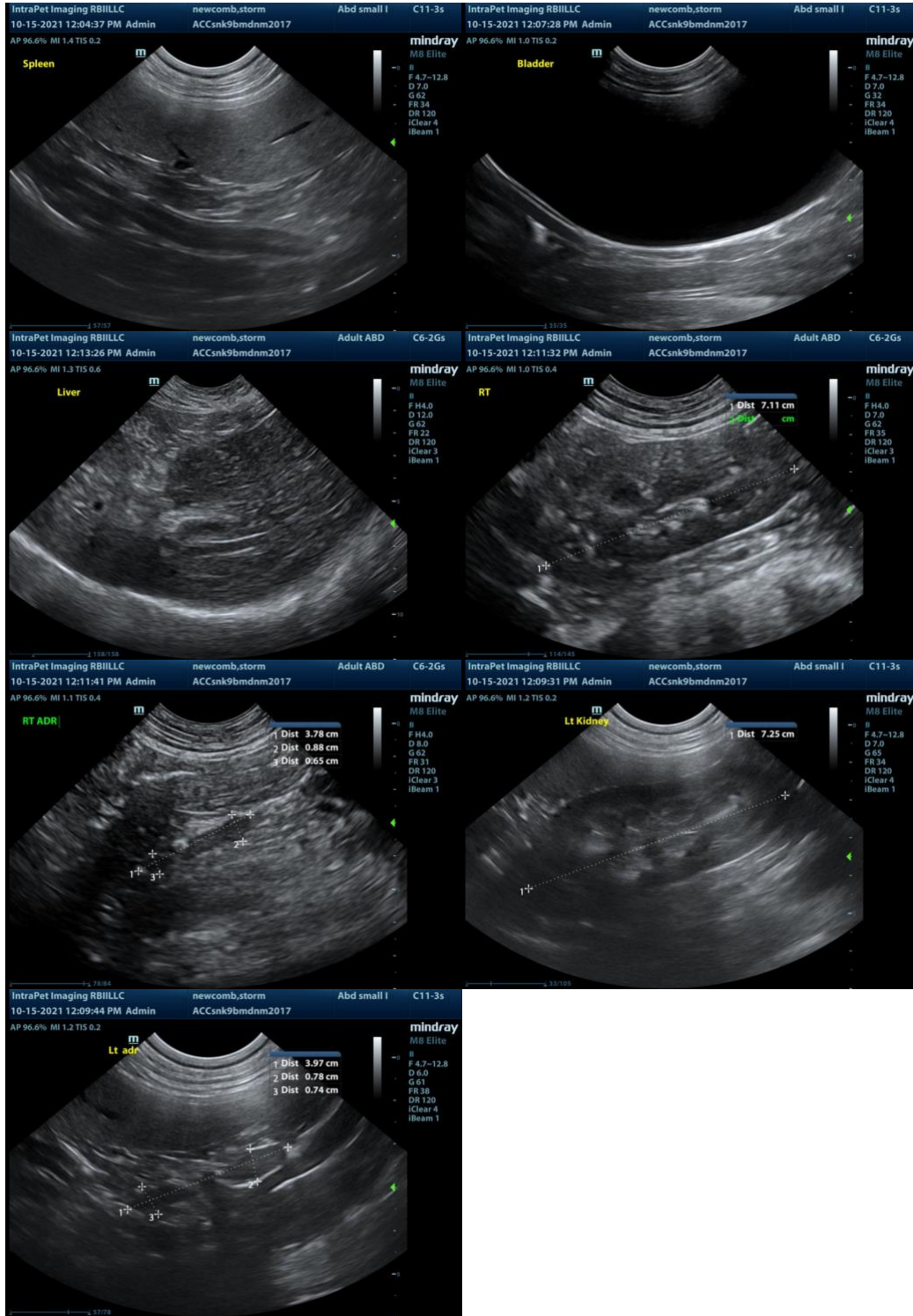
ULTRASONOGRAPHIC FINDINGS

- No significant ultrasonographic lesions visualized

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The ultrasound changes observed were relatively mild. Unfortunately, the severity of ultrasonographic changes do not always correlate with the severity of the kidney disease present. Many causes of kidney disease cannot be definitively diagnosed by ultrasound alone. Consider:

- Close evaluation of history for possible toxic changes examine medications, diet, dietary indiscretion etc..
- Urinalysis/culture to look for underlying infection
- Blood pressure evaluation
- Urine protein:creatinine ratio to look for proteinuria
- PCR on urine/serum for leptospirosis (if not on antibiotics)/serology if recent antibiotic history
- Consider ACTH stimulation test if clinically appropriate



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.

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