



PATIENT

Bella Guzman

SPECIES

Canine

BREED

Mixed

SEX

F

AGE

10

WEIGHT

22.5

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Julissa Diaz

HOSPITAL NAME

Centro Veterinario
del Norte

REFERRING VET

Dra. Ileana Rivera

INVOICE

16187

DATE

2/16/23

PRESENTING CLINICAL SIGNS

Patient presented as emergency with vomit. Per owner, dog was in heat last month, no vaginal discharge observed and she ate a can of red sauce. On presentation dog is ADR. Heart and lungs auscultated normal. She is painful in palpation of the abdomen. No vaginal discharges observed and had normal temperature.

In cbc. there's marked neutrophilia (25.84 K/uL). In chemistry, moderate hypoglycemia (54 mg/dl), moderate azotemia (creatinine 2.6 mg/dl and BUN 70 mg/dl), moderate hyperphosphatemia (11.3 mg/dl), mild hypochloremia (100 mmol/L), hyperproteinemia (> 12.0 g/dl), mild increase in ALT (237 U/L), ALT machine did not report a lecture and marked hyperbilirubinemia (3.5 mg/dl), rest of values were within normal values. Per owner leptospirosis is not possible since there's no rats in his house. I am concerned about a pyometra but in radiographs there's no obvious distention of uterus.

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2.0 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with no uroliths or sediment. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes was noted.

The uterus and bilateral ovaries were indistinctly visualized without evidence of pathology.

The area of the aortic trifurcation was free of pathology.

Normal size and contour is present in the kidneys. A normal 1:3 cortex / medulla ratio was maintained. Mild loss of corticomedullary border demarcation was present. No evidence of pyelectasia or left or right retroperitoneal inflammation was present in either kidney. The left kidney measured 5.6 cm in length. The right kidney measured 5.7 cm in length.

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.49 cm width at the caudal pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.40 cm width at the caudal pole.

Spleen

The spleen exhibited a finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. The capsule was smooth and regular without apparent expansion. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis. Acute to chronic inflammatory, neoplastic, or benign parenchyma changes were not noted.

Liver/ Gallbladder

The liver was subjectively mildly enlarged in size. The hepatic parenchyma was mildly hypoechoic compared to the spleen and renal cortical parenchyma with a mild coarse echotexture. Mild increased portal vascular border prominence was evident. The capsule of the liver was normal in margination.



PATIENT	Distinct masses or nodules were not evident. The hepatic and portal vasculature were normal in appearance. The gallbladder was indistinctly visualized. No overt evidence of post hepatic obstructive criteria was noted.
Bella Guzman	
SPECIES	<i>Gastrointestinal</i>
Canine	The stomach presented mild wall thickening secondary to echogenic mucosa hypertrophy. Intact wall layering was maintained and distinct. The stomach was empty with mild luminal gas.
BREED	
Mixed	The duodenum presented intact, mildly prominent wall layering with minor duodenal ileus. The jejunum and ileum to the level of the colon were sonographically unremarkable. No evidence of small intestinal obstructive pattern or foreign material was noted.
SEX	
F	Normal visible colon wall layers were present with apparent formed feces in lumen.
AGE	<i>Pancreas</i>
10	The parenchyma of the left limb, body, and right limb of the pancreas presented isoechoic to the adjacent omental fat. A normal curvilinear capsule contour of the pancreas was present. The visible pancreatic duct was normal. No signs of active inflammation or neoplastic disease were evident.
WEIGHT	<i>Free Abdomen</i>
22.5	No omental masses, lymphadenopathy, or evidence of peritoneal effusion were noted.
INTERPRETED BY	ULTRASONOGRAPHIC FINDINGS
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	<ul style="list-style-type: none"> • Mild age-related kidneys - suggestive of acute nephropathy / renal insult • Acute hepatopathy • Gastroduodenitis • Sonographically unremarkable pancreas / uterus - no sonographic evidence of active pancreatitis or pyometra criteria
IMAGING PERFORMED BY	INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS
Julissa Diaz	Given the unreadable ALT elevation, suspect acute hepatitis (viral, bacterial, leptospirosis, toxin, etc.), and in conjunction with acute kidney insult or nephropathy. Sonographically, the kidneys did not appear to be end-stage. Consider Leptospirosis / infectious disease, toxin exposure, or other.
HOSPITAL NAME	Leptospirosis titers / PCR are recommended. Empirically, hospitalization with hepato-renal support, as-needed antibiotics with empirical coverage for Leptospirosis pending additional diagnostics. As-needed gastrointestinal support is recommended.
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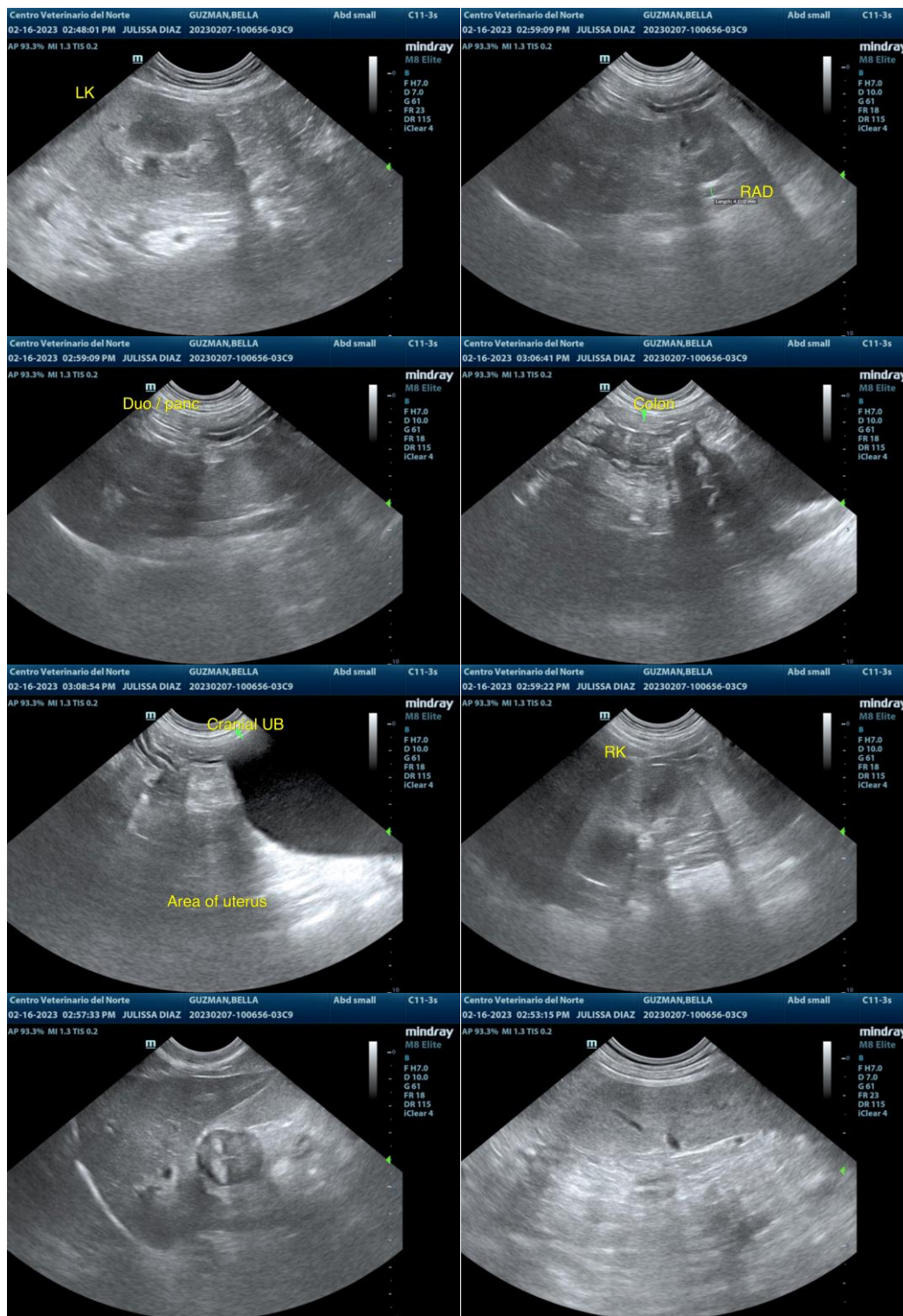
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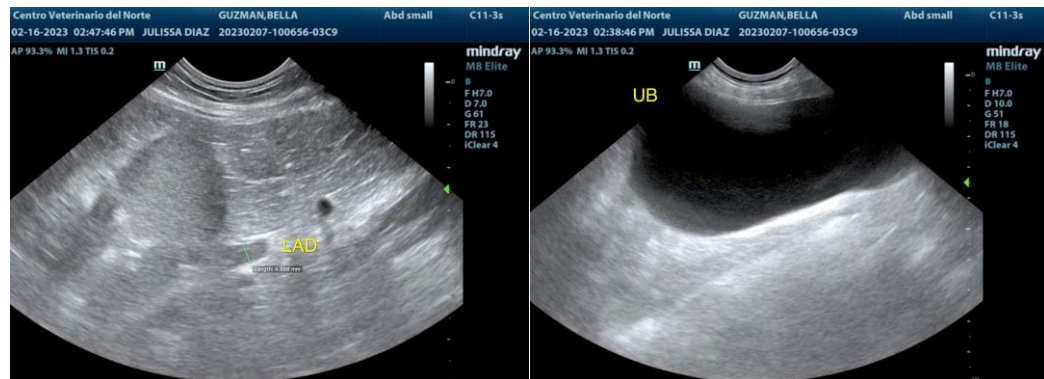
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)
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