



PATIENT

Coco Alvarez

SPECIES

Canine

BREED

Schnauzer

SEX

Neutered male

AGE

12 years

WEIGHT

27.8 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Julissa Diaz

HOSPITAL NAME

Centro Veterinario del Norte

REFERRING VET

Dra. Rivera

INVOICE

76100

DATE

7/12/23

PRESENTING CLINICAL SIGNS

History: Since August 2022, Coco has had persistent elevation of liver values without presenting any symptom at home. On PE, heart and lungs auscultated normal not painful in abdominal palpation. Radiographs were taken and mild hepatomegaly was observed by radiologist. Results of bloodwork are submitted where elevation of liver values can be noted. Recommended abdominal u/s to evaluate architecture of the liver and rule out 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 largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some 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. Slight, non-obstructive mineralization was noted in the kidneys. The largest calculi in the right kidney measured 0.82 cm. The left kidney measured 4.17 cm. The right kidney measured 5.8 cm.

Adrenal Glands

The region of **adrenal glands** were imaged with no evidence of pathology.

Spleen

The **spleen** revealed a hyperechoic, lipid nodule was noted and is not pathological.

Liver

The **liver** was uniformly swollen with minor, excessive gallbladder debris and over distension with dependent and suspended bile without evidence of overt mucocele formation. However, excessive sludge was present. The liver presented coarse architecture with mildly increased portal markings and subtle, mixed echogenic changes. This is consistent with vacuolar hepatopathy and some level of remodeling and history of inflammatory component. There was no overt suspicion of neoplasia.

Gastrointestinal

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.



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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.

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ULTRASONOGRAPHIC FINDINGS

Subjectively benign hepatopathy with mild remodeling.

Partially full stomach with minor shadowing material.

Renal calculi, non-obstructive.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

If adrenal disease is suspected then sedation and further imaging would be indicated.

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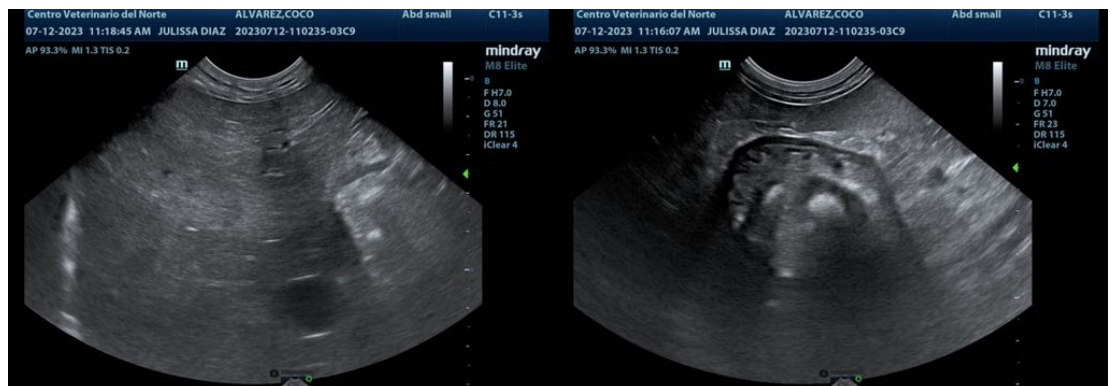
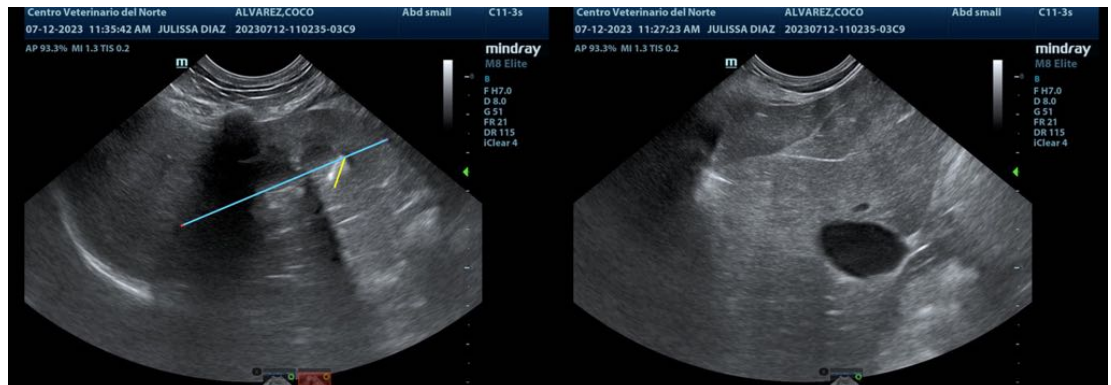
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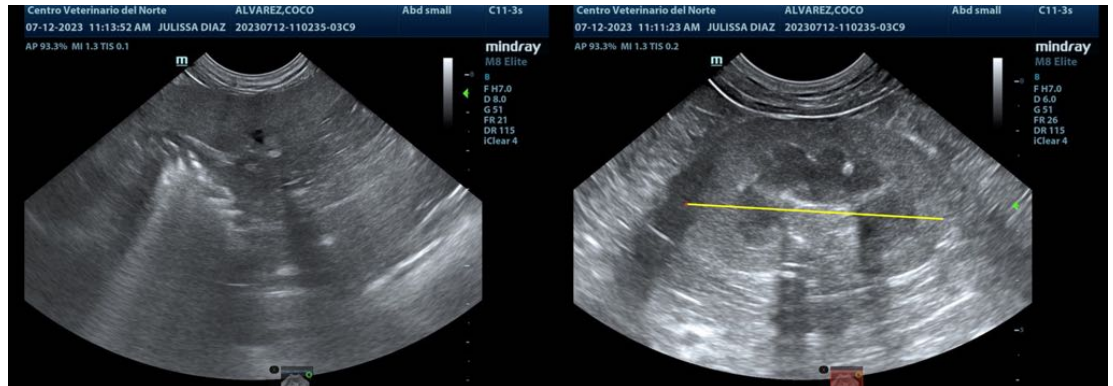
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Eric Lindquist, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com
info@SonoPath.com