



PATIENT

Nani Morales

SPECIES

Canine

BREED

Shepherd Mix

SEX

Spayed female

AGE

12 years

WEIGHT

73 lbs

PRESENTING CLINICAL SIGNS

History: 3 day hx of anorexia and lethargy. There is a mass effect in cranial abdomen. Spleen large, liver beyond rib margins. Suspect acute bleed in abdomen. Suspect splenic mass.

Leukopenia Significant thrombocytopenia - 48,000 ALT 553 ALP 351 Patient significantly depressed and tachypneic numerous petechiae present on abdomen

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 normal size and structure, corticomedullary definition and ratio for this age. The cortices presented largely uniform texture with normal echogenic relationship to liver and spleen. Medullary structure differed distinctly from the cortex and no evidence of pelvic dilation was present. The capsules were acceptably uniform without significant irregularities. The right kidney measured 6.47 cm. The left kidney measured 6.84 cm.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Gudrun Gunther

HOSPITAL NAME

New Frontier Animal
Medical Center

REFERRING VET

Dr. Tyler

INVOICE

68922

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Adrenal Glands

Both **adrenal glands** were visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. The left adrenal gland measured 2.82 x 0.6 cm at the caudal pole and 0.65 cm at the cranial pole. The right adrenal gland measured 2.63 x 1.25 cm at the cranial pole and 0.71 cm at the caudal pole.

Spleen

The **spleen** revealed multi-focal, nodular changes and mild irregular swelling. The spleen was folded upon itself cranially.

Liver

The **liver** revealed increased portal markings with minor, heterogenous parenchymal changes. The gallbladder was slightly bright and thickened.

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



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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

Micronodular spleen and heterogenous liver.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

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There were no overt masses were noted. However, I cannot rule out infiltrative disease. 25-gauge FNA of the spleen and liver is strongly recommended in this patient to assess for splenic hyperplasia versus round cell neoplasia. Hepatic remodeling versus inflammatory hepatopathy versus round cell neoplasia. Given the petechiae full coagulation panel is warranted ensuring platelet count is >70000 prior to sampling.

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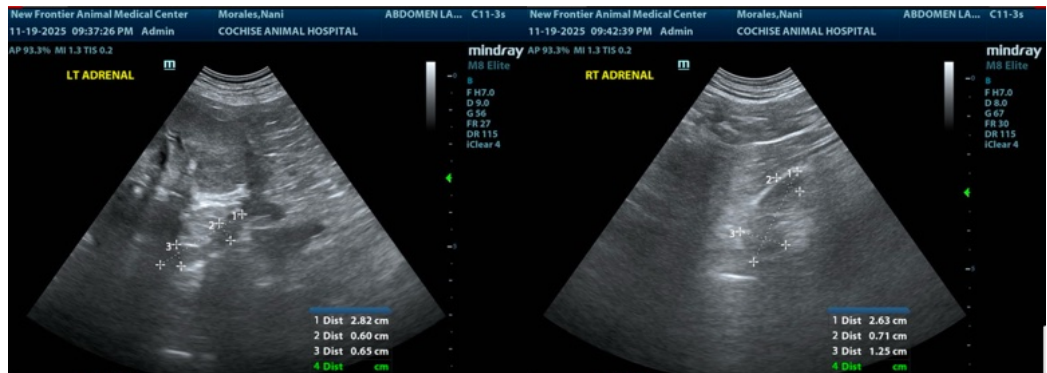
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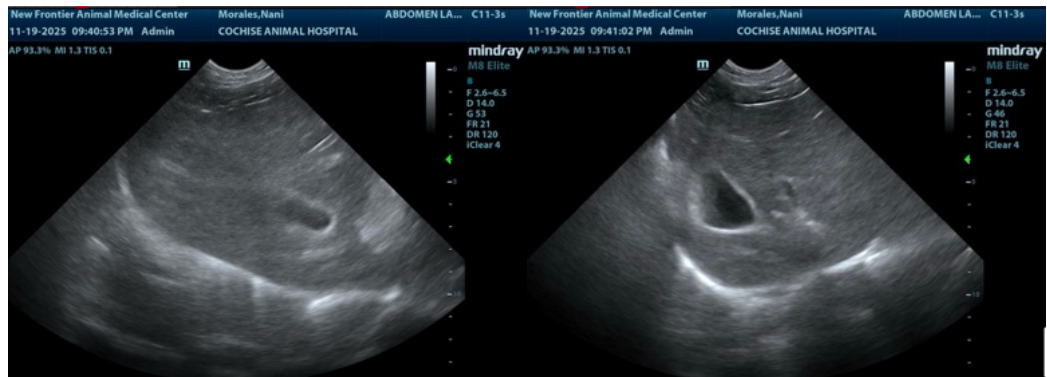
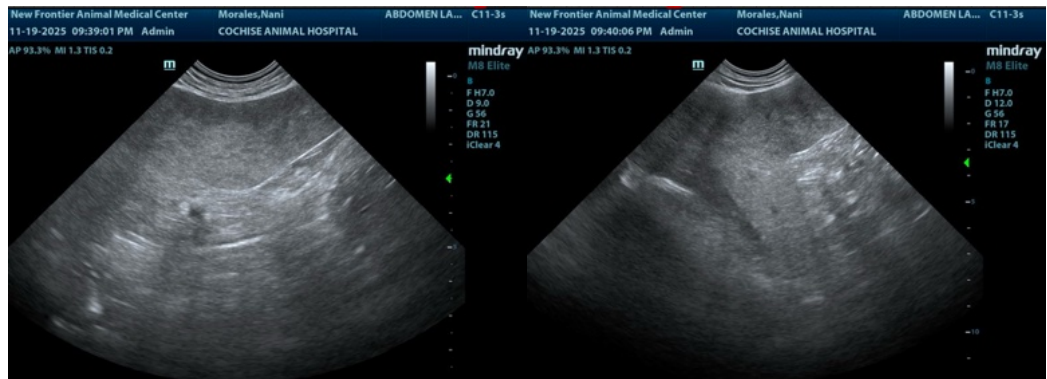
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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 (CFM), Cert. IVUSS, CEO of SonoPath.com

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