



PATIENT

Mateo Nine

SPECIES

Canine

BREED

Mini Schnauzer

SEX

Neutered Male

AGE

10 Years

WEIGHT

15.4 Pounds

INTERPRETED BY

Eric Lindquist, DMV

DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Ferrer

HOSPITAL NAME

Paseos Vet Center

REFERRING VET

Dr. Naihomie Rodriguez

INVOICE

41703

DATE

9/28/22

PRESENTING CLINICAL SIGNS

Patient presented as a referral for an abdominal ultrasound. Pt presented to rDVM as a second opinion due to abdominal distention to R/O lymphoma. Pt has been having liquid dark diarrhea and also vomiting. Pt had abdominal effusion and abdominocentesis was done at the rDVM and sent for evaluation and is pending. Ultrasound-guided FNA of the liver was done and sent to pathologist and is pending.

Abnormal PE/Chem/CBC/UA Results: BW: CBC showed anemia 32%, WBC : 29 (5-18), CHEM : BUN 46(7-27), Ca 7.4 (7.9-12), TP: 4.6 (5.2-8.2). ALT: 380 (10-125), ALP: 471 (23-212), GGT: 61 (0-11), Chol: 106 (110-320). BP: 180/158 ABD rads: done at EC showed loss of serosal detail.

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The **urinary bladder** presented dependent and suspended debris with mildly thickened wall, non-obstructive.

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. The left kidney measured 5.27 cm.

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 right adrenal gland was normal, measuring 0.45 cm at the caudal pole and 1.0 cm at the cranial pole. The left adrenal gland measured 0.47 cm.

Spleen

The **spleen** was mildly heterogeneous with focal hypoechoic nodules.

Liver

The **liver** was riddled with multiple disruptive nodules. Irregular contour noted. An overt hepatic mass was noted measuring 5.7 cm. Disrupted architecture noted and hyperechoic surrounding fat. The gallbladder presented a minor amount of sand and suspended debris. Hepatic lymph nodes were enlarged.

Gastrointestinal

The **stomach** itself was unremarkable. Variable intestinal thickening present.

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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Free Abdomen

Mateo Nine

Mesenteric lymph nodes were enlarged and irregular, measuring up to 2.5 cm. Multiple other lymph nodes enlarged and irregular.

SPECIES

Multiple areas of undifferentiated tissue noted throughout the mid abdomen.

Canine

Free fluid noted throughout the abdomen.

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Mini Schnauzer

ULTRASONOGRAPHIC FINDINGS

- Multicentric aggressive round cell neoplastic pattern – lymphomatosis or similar pathology.
- Mildly thickened urinary bladder wall and bladder debris
- Nodular spleen
- Nodular liver and gallbladder debris
- Variable intestinal thickening
- Multiple enlarged, irregular lymph nodes
- Free fluid

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

FNA of the liver, free fluid, and lymph nodes should prove effective. Prognosis is poor. Humane euthanasia should be considered in this patient.

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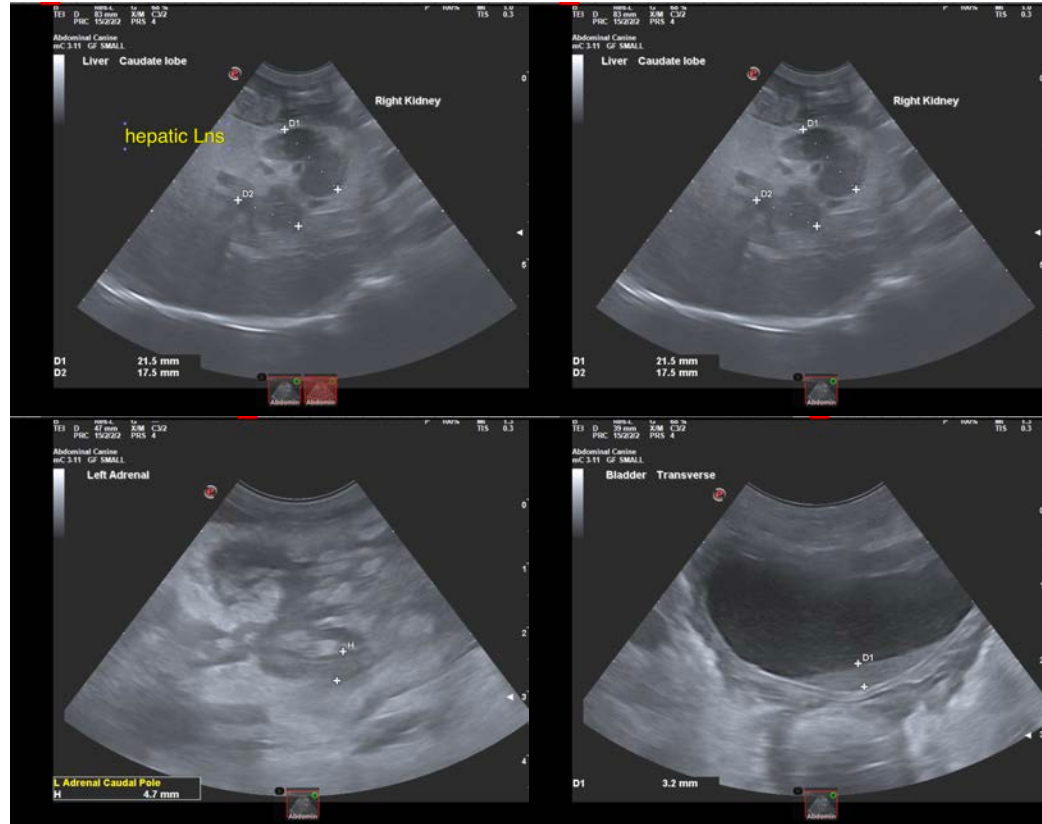
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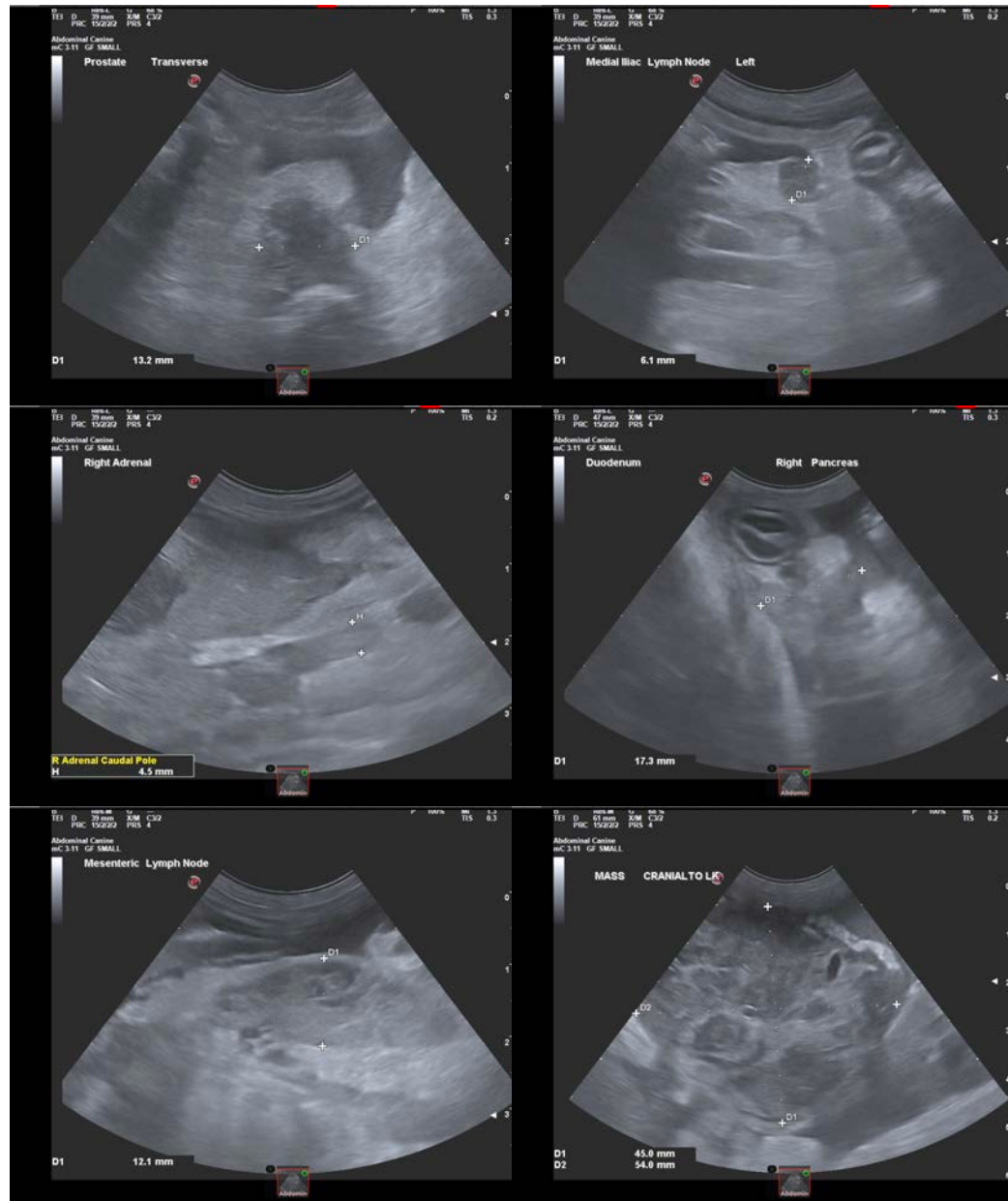
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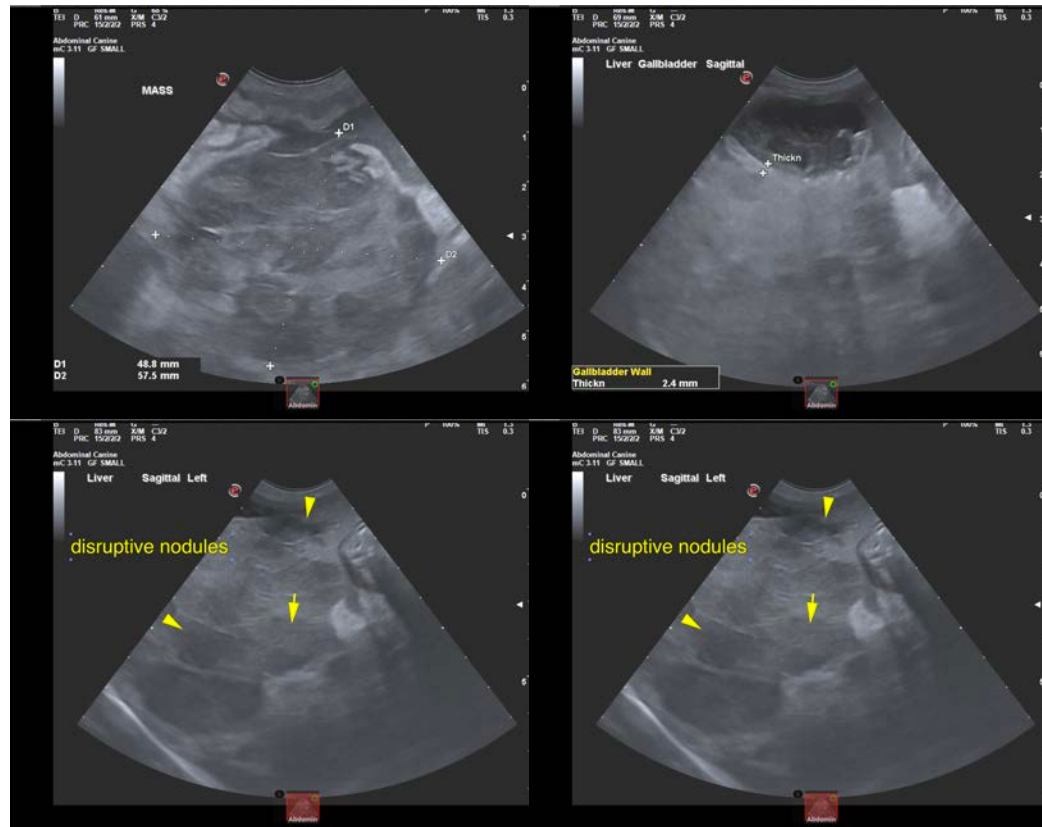
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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

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