



PATIENT

Loki Dunlop

SPECIES

Canine

BREED

Husky Cross

SEX

Neutered male

AGE

12 years

WEIGHT

73 lbs

PRESENTING CLINICAL SIGNS

History: Chronic cough. 2 week hx of lethargy and hyporexia.
Febrile - 103.5 F

Abnormal PE/Chem/CBC/UA Results: CBC - Anemia - 22.7 HCT, hypochromic, microcytic, mildly regenerative mild leukocytosis due to neutrophilia CHEM - very mild elevation Tbili

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 **left kidney** revealed a hypoechoic nodular change at the dorsal cranial cortex with surrounding subcapsular fluid and regional inflammation. The nodule measured 2.6 x 1.0 cm. The left kidney measured 6.56 cm. The **right kidney** was slightly heterogenous at the cranial pole with an expansive nodule. The right kidney measured 8.13 cm.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

Adrenal Glands

The left **adrenal gland** was slightly swollen at the caudal pole measuring 2.61 x 0.61 cm at the cranial pole and 0.77 cm at the caudal pole. The right adrenal gland was normal in size and contour measuring 2.39 x 0.6 cm at the cranial pole and 0.8 cm at the caudal pole.

IMAGING PERFORMED BY

Gudrun Gunther

Spleen

The **spleen** presented a 10.5 cm mixed hypoechoic, undifferentiated mass. Free fluid was noted around the spleen. Other nodular changes were noted throughout the spleen with capsular expansion and disrupted architecture. Some of the nodules were Power Doppler positive and others negative. The negative ones are likely hematoma.

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Liver

The **liver** was riddled with multiple metastatic type, microcavitated lesions with a similar architecture to the splenic lesions. The gallbladder presented acceptably thin walls with primarily anechoic content.

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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.

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.

Free Abdomen

A slight amount of free fluid was noted around the left kidney.

Heart

Rapid view of the heart revealed no evidence of pathology. The volumes and contractility appeared normal.

ULTRASONOGRAPHIC FINDINGS

Splenohepatic and renal metastatic hemangiosarcoma pattern.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

25-gauge FNA of the parenchymal portions of the masses in the liver, kidney and spleen would all be indicated with immediate chemotherapeutic intervention. Multi-centric sarcoma, likely hemangiosarcoma is suspected.





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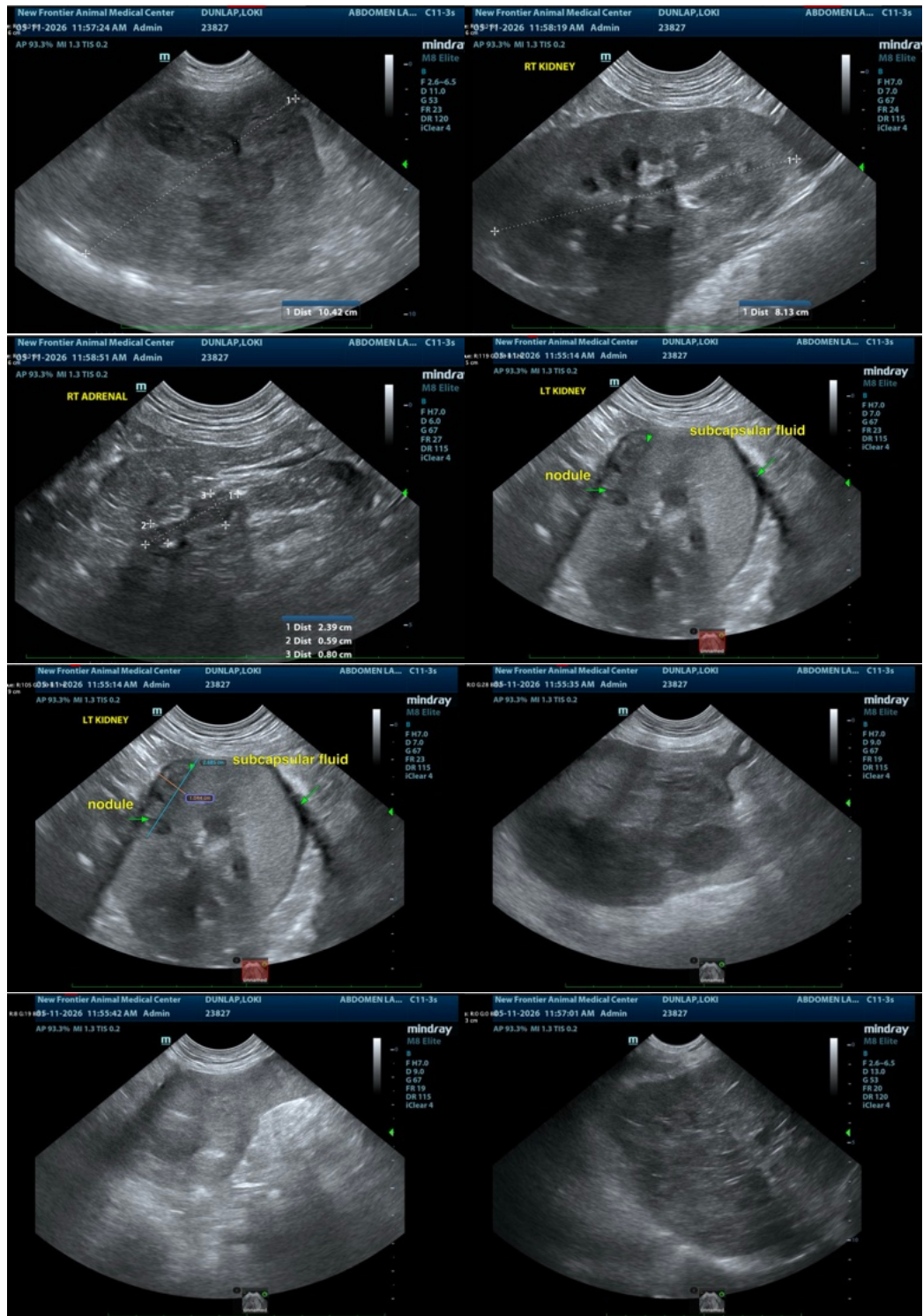
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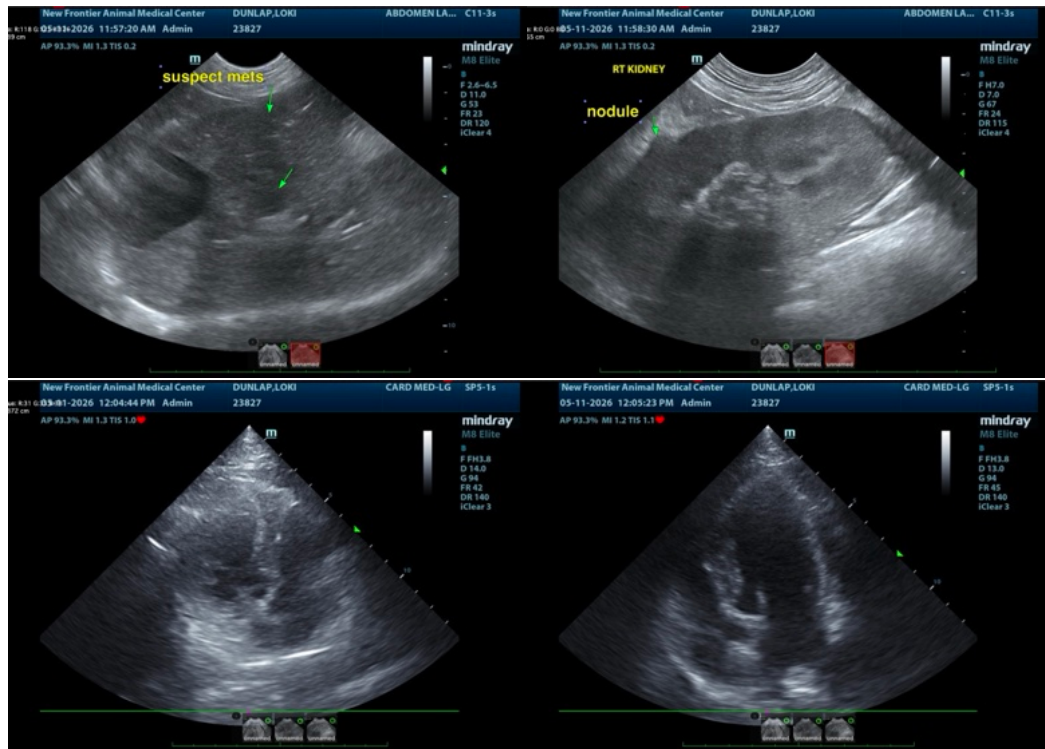
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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