

**PATIENT PRESENTING CLINICAL SIGNS**

Mia Mound

History: mast cell tumor, wants to get it removed. Elevated liver enzymes , pre-surgical  
Abnormal PE/Chem/CBC/UA Results: bile acids pending total protein - 7.5(hi), Alt- 211 (hi), ALK  
Phos - 588 (hi), sodium - 159, chloride - 121(hi) chol. -371(hi), trig. 1045(hi), MCHC - 41(hi), platelet  
cnt574(hi) , neu - 78 (hi)

**SPECIES**

Canine

**BREED**

Italian Greyhound

**SEX**

Spayed female

**AGE**

12 years

**WEIGHT**

19.4 lbs

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Heather

**HOSPITAL NAME**

Animal Care Center of  
Flanders

**REFERRING VET**

Dr. Hallihan

**INVOICE**

42403

**DATE**

11/8/22

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The pelvic urethra was imaged 2.0 cm beyond the cystourethral junction and appeared normal. 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. The left kidney measured 4.63 cm. The right kidney measured 4.73 cm.

**Adrenal Glands**

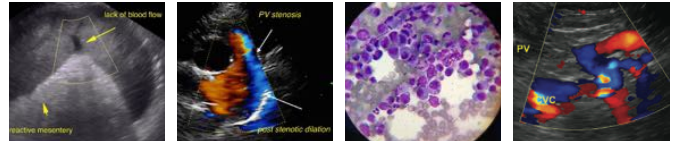
Both **adrenal glands** were visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient.

**Spleen**

The **spleen** revealed multi-focal, hyperechoic lipogranulomatous changes with minor acoustic shadowing. The spleen was slightly enlarged with slight granular appearance.

**Liver**

The **liver** images from right and left intercostal as well as subcostal views revealed subjectively normal liver size, contour, and structure. Some age-related parenchymal remodeling was noted but likely not clinically significant at this time. Vascular and biliary tracts were of normal volume and no evidence of congestion was noted. The gallbladder presented some dependent debris with essentially normal contour. The cystic and common bile ducts were normal. No overt evidence of active inflammatory, infiltrative or regenerative pathology was noted but should be paired with current or past LE elevations regarding any clinical significance to this presentation. The hepatic lymph nodes were unremarkable.



**PATIENT**

**Gastrointestinal**

Mia Mound

There was some residual chyme and gas was noted in the **stomach**, yet not pathological. This is consistent with end post prandial presentation. Transit of chyme into the small intestine was normal. Curvilinear patterns were maintained throughout the GI tract. No evidence of pathology. 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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Canine

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**Pancreas**

Italian Greyhound

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.

**SEX**

Spayed female

**Free Abdomen**

**AGE**

12 years

Rounded, hypoechoic, undifferentiated 1.8 cm structure was noted cranial to the urinary bladder. This is likely a lymph node. However, FNA is indicated.

**WEIGHT**

19.4 lbs

**Heart**

Rapid view of the heart revealed no evidence of pathology.

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**ULTRASONOGRAPHIC FINDINGS**

Geriatric renal and hepatic presentation.

Slightly enlarged spleen with lipogranulomatous type lesions and granular appearance.

**IMAGING PERFORMED BY**

Heather

Rounded, hypoechoic structure likely lymph node cranial to the urinary bladder.

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**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

FNA of the spleen and suspected lymph node structure is indicated to ensure that metastatic disease is not an issue. Benadryl injection is recommended 30 minutes prior to sampling is recommended.

**REFERRING VET**

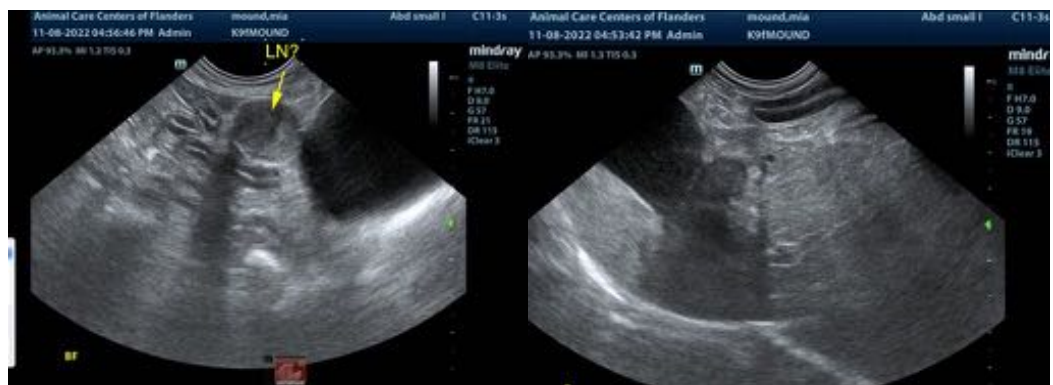
Dr. Hallihan

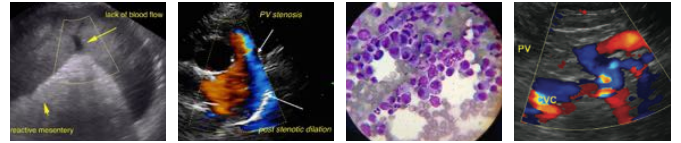
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**PATIENT**

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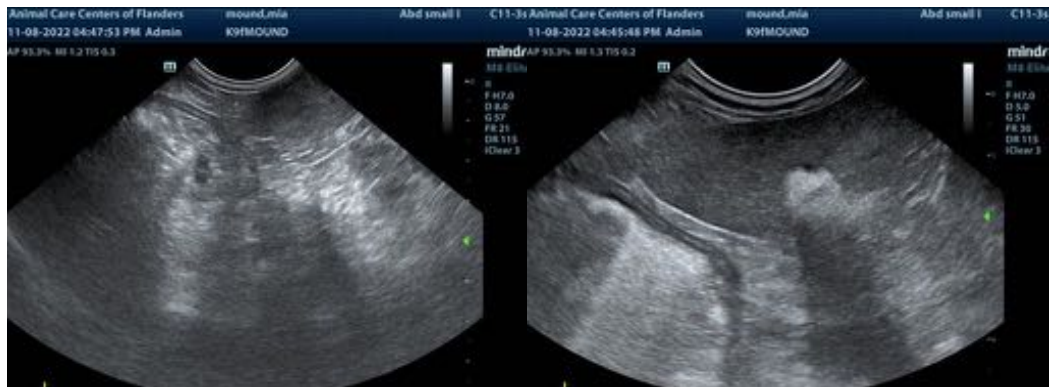
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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