



**PATIENT PRESENTING CLINICAL SIGNS**

**Gino Kelley**  
History: History of elevated liver enzymes on geriatric wellness panel. BCS 4/6 concern for weight loss with elevation in liver enzymes. Imaging to check for neoplastic process. Not on any medication or supplements. Has delayed CP's in hind legs. Decreased hip extension (arthritic)

**SPECIES**  
Abnormal PE/Chem/CBC/UA Results: ALT 489 (18-121) GGT 17 (0-13) AST 64 (16-55) ALK.Phos 907 (5-160) Lipase 266 (0-250) Lymphopenia 0.59 (1.06-4.95)

Canine

**BREED ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Terrier Mix**  
*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.

**AGE**

14 years

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 7.0 cm. The right kidney measured 6.52 cm.

**WEIGHT**

62 lbs

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

*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 measured 0.8 cm. The left adrenal gland was approached from the right side and measured 0.6 cm.

**IMAGING PERFORMED BY**

A Murphy CVT

**HOSPITAL NAME**

Wauwautosa VC

*Spleen*

The **spleen** in this patient was mildly enlarged with uniform parenchyma and was folded upon itself. This is a positional variant and is not pathological. There was no evidence of significant disease.

**REFERRING VET**

Dr. Binor

*Liver*

The **liver** was enlarged and scalloping contour with enhanced surrounding mesentery and increased portal markings. Isoechoic nodular changes were noted. The gallbladder was unremarkable with a minor amount of dependent debris.

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**PATIENT**

**Gastrointestinal**

Gino Kelley

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.

**SPECIES**

Canine

**BREED**

Terrier Mix

**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.

**SEX**

Neutered male

**ULTRASONOGRAPHIC FINDINGS**

Enlarged, irregular nodular liver. Inflammatory hepatopathy with emerging cirrhosis versus emerging round cell neoplasia.

**AGE**

14 years

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**WEIGHT**

62 lbs

Ultrasound-guided FNA and bile acid profile is recommended. Otherwise, unremarkable abdomen. The prognosis is guarded depending on cytology results.

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUS

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**REFERRING VET**

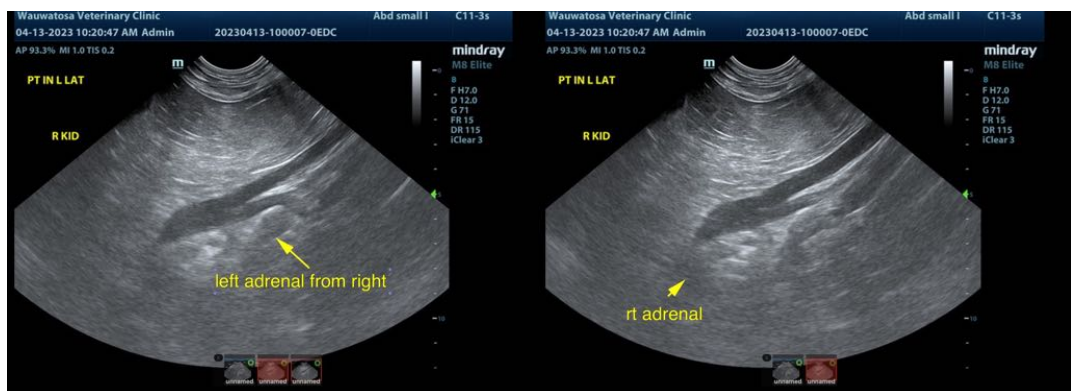
Dr. Binor

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**PATIENT**

Gino Kelley

**SPECIES**

Canine

**BREED**

Terrier Mix

**SEX**

Neutered male

**AGE**

14 years

**WEIGHT**

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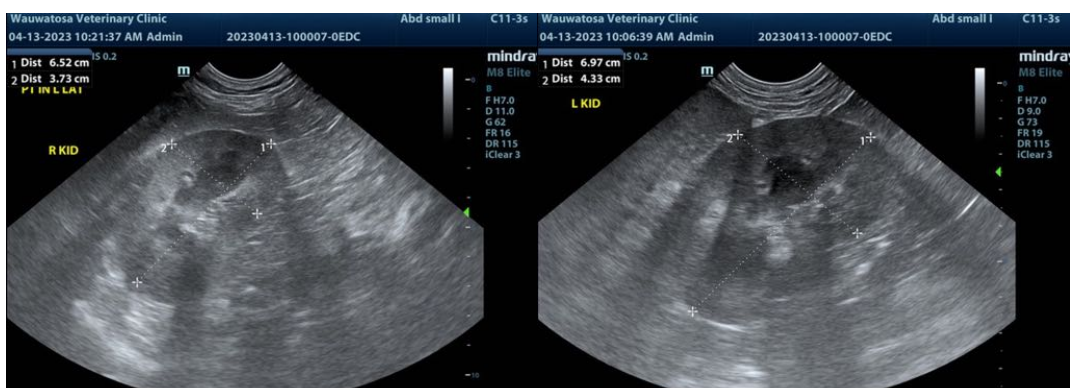
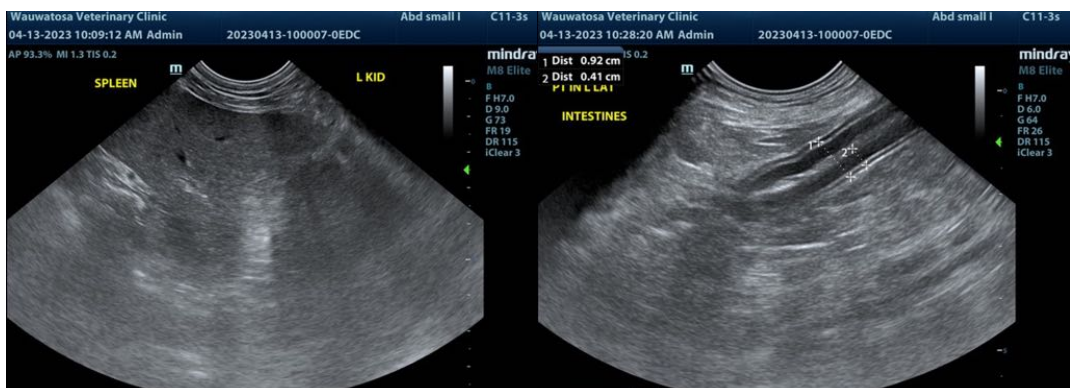
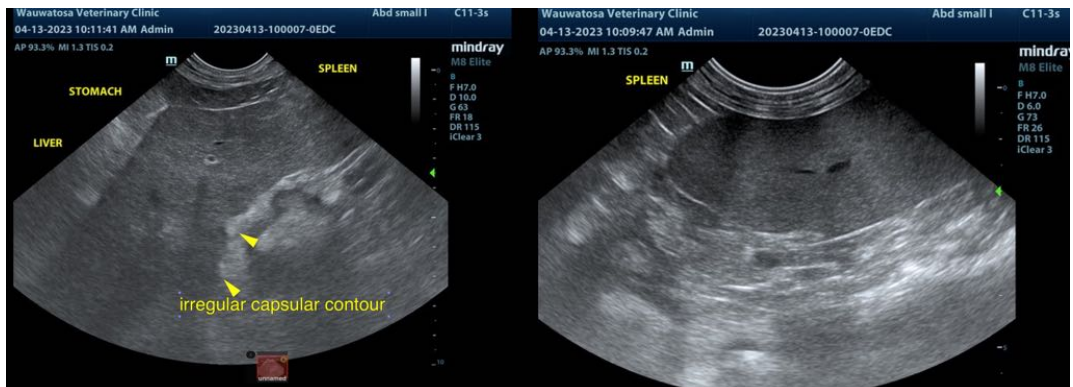
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**PATIENT**

Gino Kelley

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.

**SPECIES**

Canine

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.

**BREED**

Terrier Mix

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

**SEX**

Neutered male

**AGE**

14 years

**WEIGHT**

62 lbs

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