



**PATIENT**

Coco San Pedro

**SPECIES**

Canine

**BREED**

Morkie

**SEX**

Neutered Male

**AGE**

10 Years

**WEIGHT**

17.5

**INTERPRETED BY**

Eric Lindquist, DMV

DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Kyoung Han

**HOSPITAL NAME**

Tenaflly Vet Center

**REFERRING VET**

Dr. Kyoung Han

**INVOICE**

44783

**DATE**

2/3/23

**PRESENTING CLINICAL SIGNS**

Alp (hepatobiliary enzyme) is elevated. This is chronic elevation since 2020 with normal urine concentration. weight loss. grade 3 heart murmur. cardiologist does not think cardiac disease plays a role for alp elevation. alp: 498.

**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 were 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 measures 4.0 cm. The right kidney measures 4.1 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 measures 0.50 cm. The left adrenal gland measured 0.60 cm.

**Spleen**

The **spleen** presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The capsule was smooth without noticeable expansion or deviation from within the spleen or adjacent pathology. The splenic vasculature demonstrated normal volume without signs of congestion or thrombosis. No sonographic evidence of acute or chronic inflammatory, neoplastic, or infarctual changes were noted.

**Liver**

The **liver** was uniformly swollen with minor, excessive gallbladder debris and over distension with dependent and suspended bile without evidence of overt mucocele formation. However, excessive sludge was present. The liver presented coarse architecture with mildly increased portal markings and subtle, mixed echogenic changes. This is consistent with vacuolar hepatopathy and some level of remodeling and history of inflammatory component. There was no overt suspicion of neoplasia.

**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 demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.



**PATIENT**

Coco San Pedro

**SPECIES**

Canine

**BREED**

Morkie

**SEX**

Neutered Male

**AGE**

10 Years

**WEIGHT**

17.5

**INTERPRETED BY**

Eric Lindquist, DMV

DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Kyoung Han

**HOSPITAL NAME**

Tenafly Vet Center

**REFERRING VET**

Dr. Kyoung Han

**INVOICE**

44783

**DATE**

2/3/23

**Pancreas**

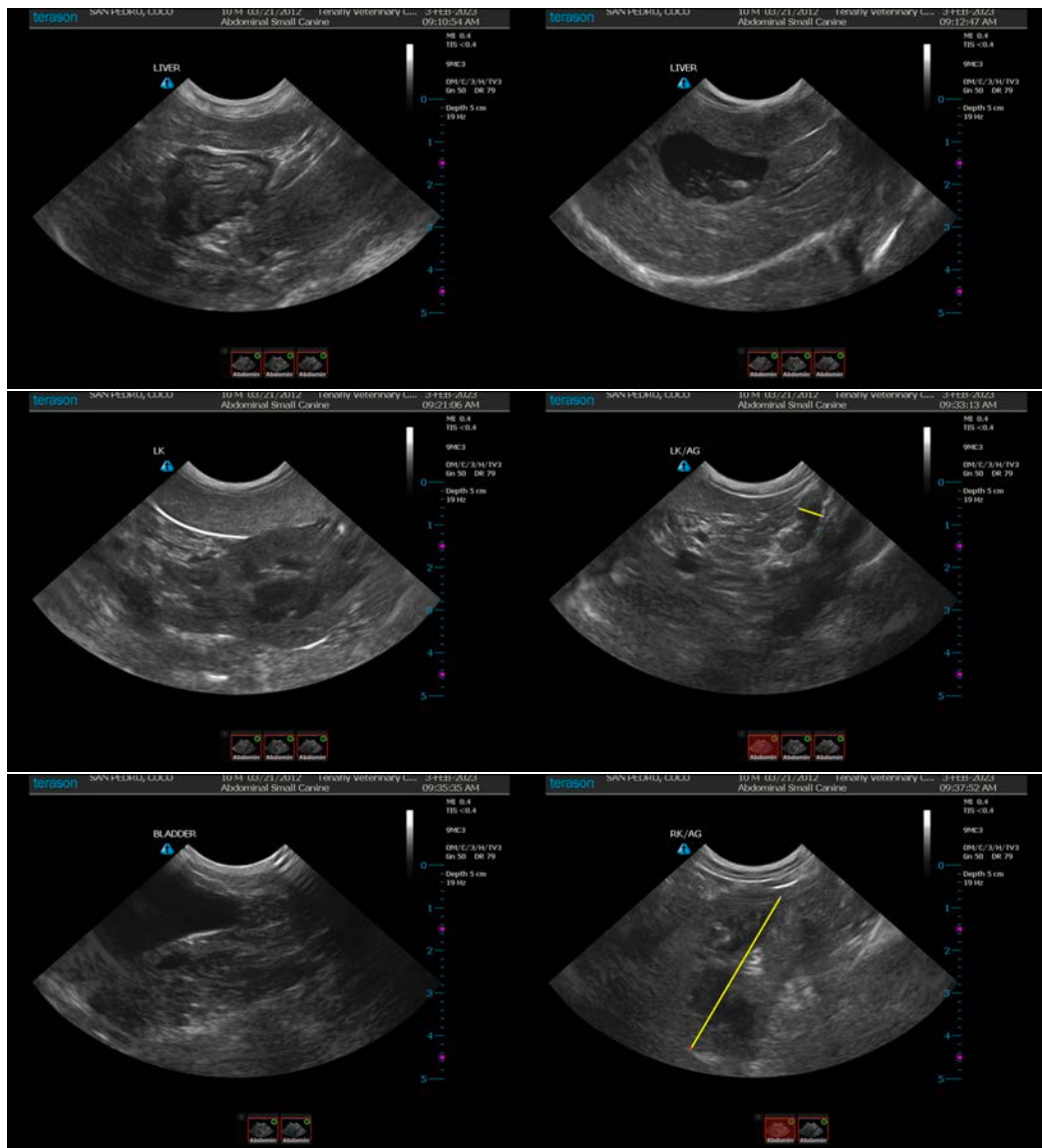
The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Pancreatic duct and capsular contour were acceptably normal and parenchyma respected normal curvilinear patterns. No overt evidence of active inflammatory or neoplastic disease was noted.

**ULTRASONOGRAPHIC FINDINGS**

- Structurally unremarkable abdomen, benign hepatic presentation
- Structurally normal adrenal glands

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

No evidence of pathology. FNA of the liver could be considered for further definition. However, this is a common benign hepatopathy in this breed.





**PATIENT**

Coco San Pedro

**SPECIES**

Canine

**BREED**

Morkie

**SEX**

Neutered Male

**AGE**

10 Years

**WEIGHT**

17.5

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Kyoung Han

**HOSPITAL NAME**

Tenafly Vet Center

**REFERRING VET**

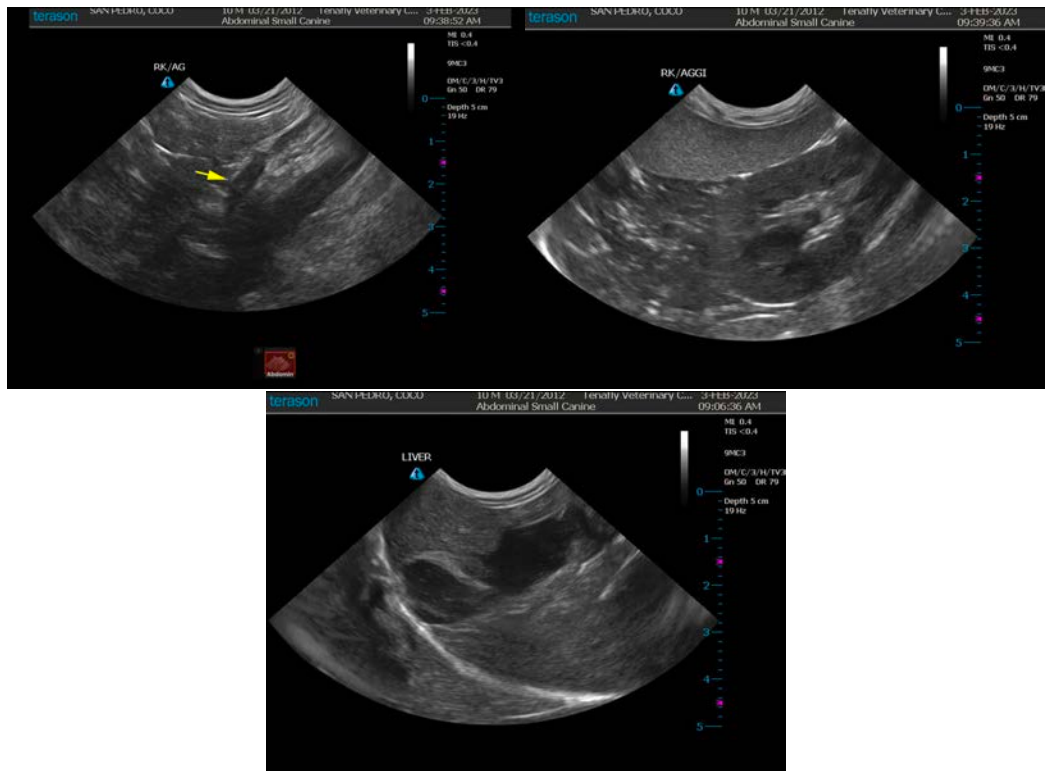
Dr. Kyoung Han

**INVOICE**

44783

**DATE**

2/3/23



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](mailto:info@SonoPath.com)