



**PATIENT PRESENTING CLINICAL SIGNS**

Jack Ngo Weight loss , Inappetence , occasional vomiting , lethargy . History of heart murmur (not worse recently)  
Abnormal PE/Chem/CBC/UA Results: Borderline non regenerative anemia . Elevated SDMA.  
Significant proteinuria , USG 1.022, significant elevation of UPCr ( confirmed recently ). Normal Snap spec CPL.

**SPECIES**

Canine

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**BREED**

**Urinary System**

Miniature Schnauzer

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The ureters were not visible which is normal. Accumulation of bladder sand was noted and measured 2.0 cm. The sand was non-obstructive at the time of the sonogram. No evidence of inflammatory or neoplastic changes was noted. Ureteral papillae were normal.

**SEX**

Neutered male

**AGE**

12 years

The **kidneys** presented a relatively uniform cortical hyperechogenicity when compared to the renal medulla, spleen and liver. No overt masses were noted. Corticomedullary definition was nebulous and the ratio favored the cortex slightly. The ureters were not visible and assumed to be normal. These changes are most consistent with chronic interstitial nephritis yet infiltrative disease could not be entirely ruled out without biopsy though neoplasia is not suspected. Non-obstructive calculus was noted and measured 0.3 cm at the corticomedullary junction. The left kidney revealed a 1.0 cm anechoic cyst with moderate degenerative renal changes and measured 4.44 cm in length. The right kidney measured 4.01 cm with moderate, degenerative changes.

**WEIGHT**

7 lbs

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUS

**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 0.36 cm at the cranial pole and 0.36 cm at the caudal pole. The left adrenal gland measured 0.53 cm at the cranial pole and 0.68 cm at the caudal pole.

**IMAGING PERFORMED BY**

Stan Gira

**HOSPITAL NAME**

**Spleen**

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

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**REFERRING VET**

Dr. Gira Sabadilla VC

**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. Minor polyps were noted and not overtly pathological. The gallbladder was mildly over distended with suspended and dependent debris, yet not to the level of emerging mucocele. However, the sludge appears to be mildly excessive. No adjunctive inflammation was noted.

**INVOICE**

30185

**DATE**

5/5/22



**PATIENT**

**Gastrointestinal**

Jack Ngo

Gastric wall thickening was noted with hypertrophied muscularis. The small intestines and colon were unremarkable.

**SPECIES**

Canine

**Pancreas**

Nodular omentum was noted around the **pancreas**. Undefined tissue thickening was noted in the region of the pancreas and measured 2.0 x 1.5 cm with ill-defined margins infiltrating into the pancreatic tissue.

**BREED**

Miniature Schnauzer

**Free Abdomen**

**SEX**

Neutered male

Free fluid was noted in the abdomen. Enhanced nodular omental changes were noted with regional mesenteric lymph node enlargement. The lymph node measured approximately 1.0 cm.

**AGE**

12 years

**ULTRASONOGRAPHIC FINDINGS**

Nodular pancreas and omentum.

**WEIGHT**

7 lbs

Gastric hypertrophy.

Moderate degenerative renal changes with protein losing nephropathy.

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

I am concerned for underlying neoplasia. FNA of the undefined tissue thickening in the region of the pancreas is recommended. There is a strong concern for carcinomatosis or similar neoplasia. FNA of the hypoechoic undifferentiated portions of pathology near the pancreas as well as abdominocentesis and cytospin is indicated to assess for neoplastic cells.

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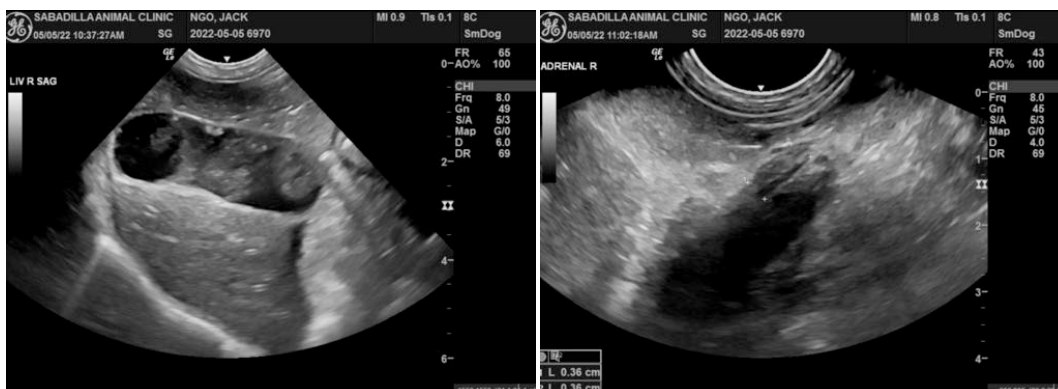
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**PATIENT**

Jack Ngo

**SPECIES**

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**BREED**

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Neutered male

**AGE**

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**WEIGHT**

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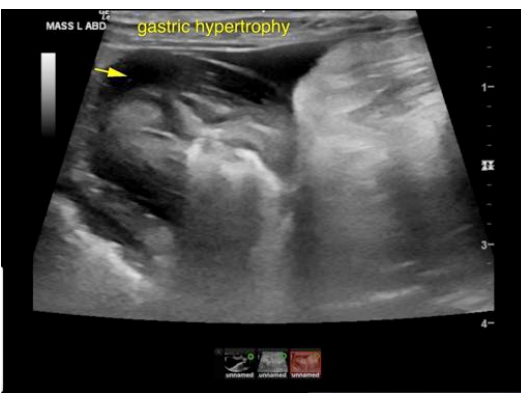
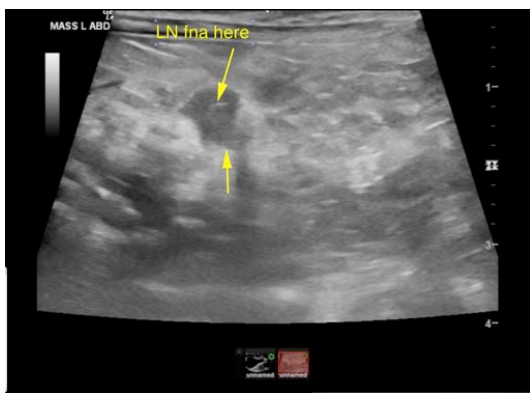
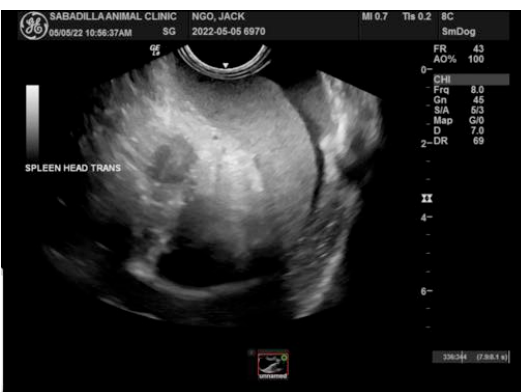
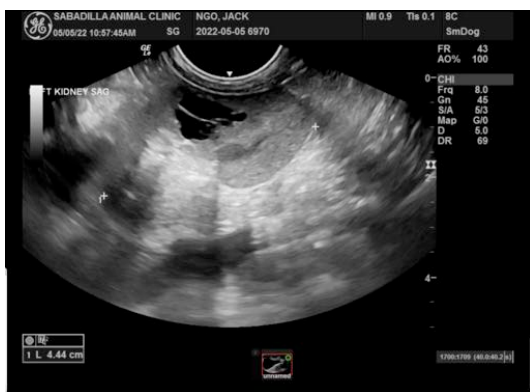
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**PATIENT**

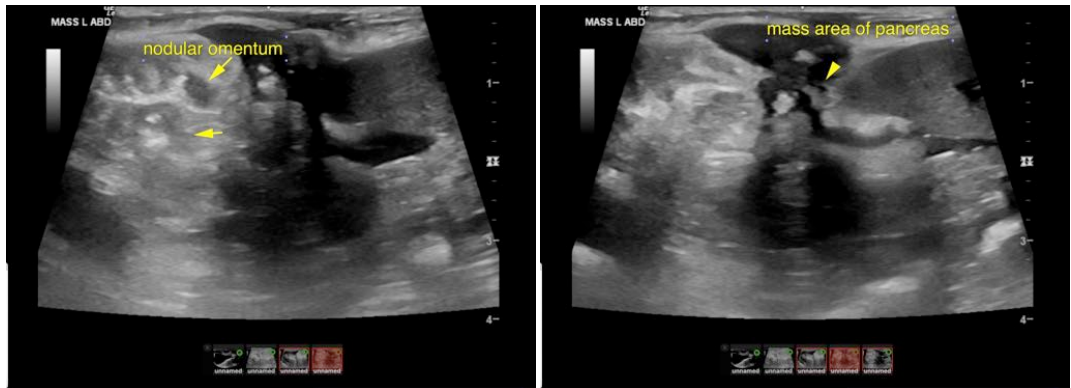
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Miniature Schnauzer



**SEX**

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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.

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

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

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