



PATIENT

Mimi Deng

PRESENTING CLINICAL SIGNS

History: Patient with history of small left kidney presents for a follow up scan of the liver. Current meds: Denamarin.
Abnormal PE/Chem/CBC/UA Results: Albumin 4.3, ALT167, ALP 1,440.

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

BREED

Shih Tzu

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.

SEX

Spayed female

AGE

10 years

The **right kidney** revealed normal size and structure, corticomedullary definition and ratio for this age. The cortices presented largely uniform texture with normal echogenic relationship to liver and spleen. Medullary structure differed distinctly from the cortex and no evidence of pelvic dilation was present. The capsule was acceptably uniform without significant irregularities. The right kidney measured 4.53 cm. The **left kidney** is significantly subnormal in size and measured 1.54 cm. The left kidney is dystrophic and irregular.

WEIGHT

15.1 lbs

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 1.43 x 0.59 cm at the cranial pole and 0.49 cm at the caudal pole. The left adrenal gland measured 1.65 x 0.63 cm at the caudal pole and 0.5 cm at the cranial pole.

INTERPRETED BY

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

IMAGING PERFORMED BY

Kelly Vazquez, CVT

HOSPITAL NAME

Englewood Cliffs VC

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 was noted.

REFERRING VET

Dr. Attanasi

Liver

The **liver** revealed coarse architecture with increased portal markings. This is consistent with history of remodeling and appears to be stable. The gallbladder presented acceptably thin walls with primarily anechoic content. The cystic and common bile ducts were normal. No pathological hepatic lymphadenopathy was evident. No overt structural evidence of inflammatory, infiltrative or regenerative pathology was evident.

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Gastrointestinal

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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.

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Pancreas

The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Some parenchymal remodeling, however, with mild deviation from curvilinear normalcy was observed. Pancreatic duct and capsular irregularities were present consistent with age related changes. If pain upon imaging (+ Murphy sign) was present or if the patient is focally painful in subxiphoid palpation then low-grade smoldering chronic pancreatitis should be suspected.

AGE

10 years

ULTRASONOGRAPHIC FINDINGS

Stable dystrophic left kidney, the left kidney may be end stage owing to degenerative processes or primary dysplasia.

WEIGHT

15.1 lbs

Mild degenerative right renal changes.

Mild hepatic remodeling, appears stable.

INTERPRETED BY

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

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

FNA of the liver could be considered for further definition. Prior ultrasound revealed similar changes. Subjectively mild hepatic progression has occurred, yet the renal presentation is similar with mild, progressive right renal degenerative changes.

IMAGING PERFORMED BY

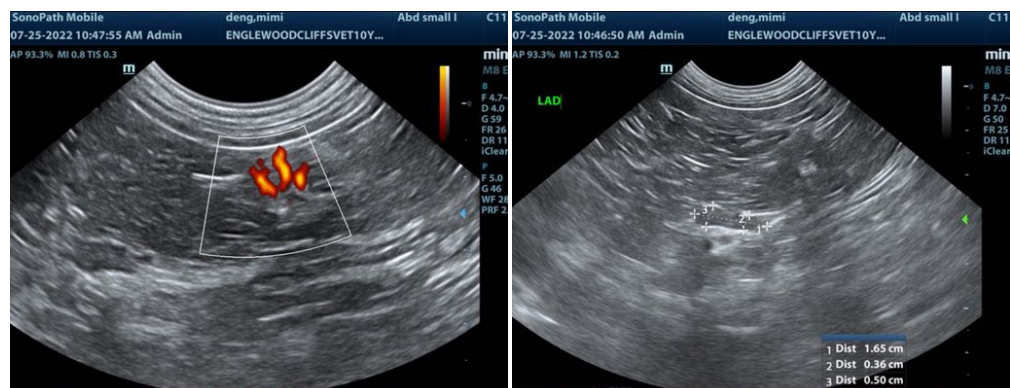
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REFERRING VET

Dr. Attanasi

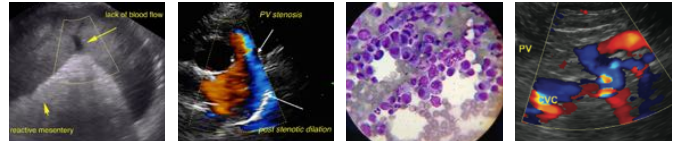


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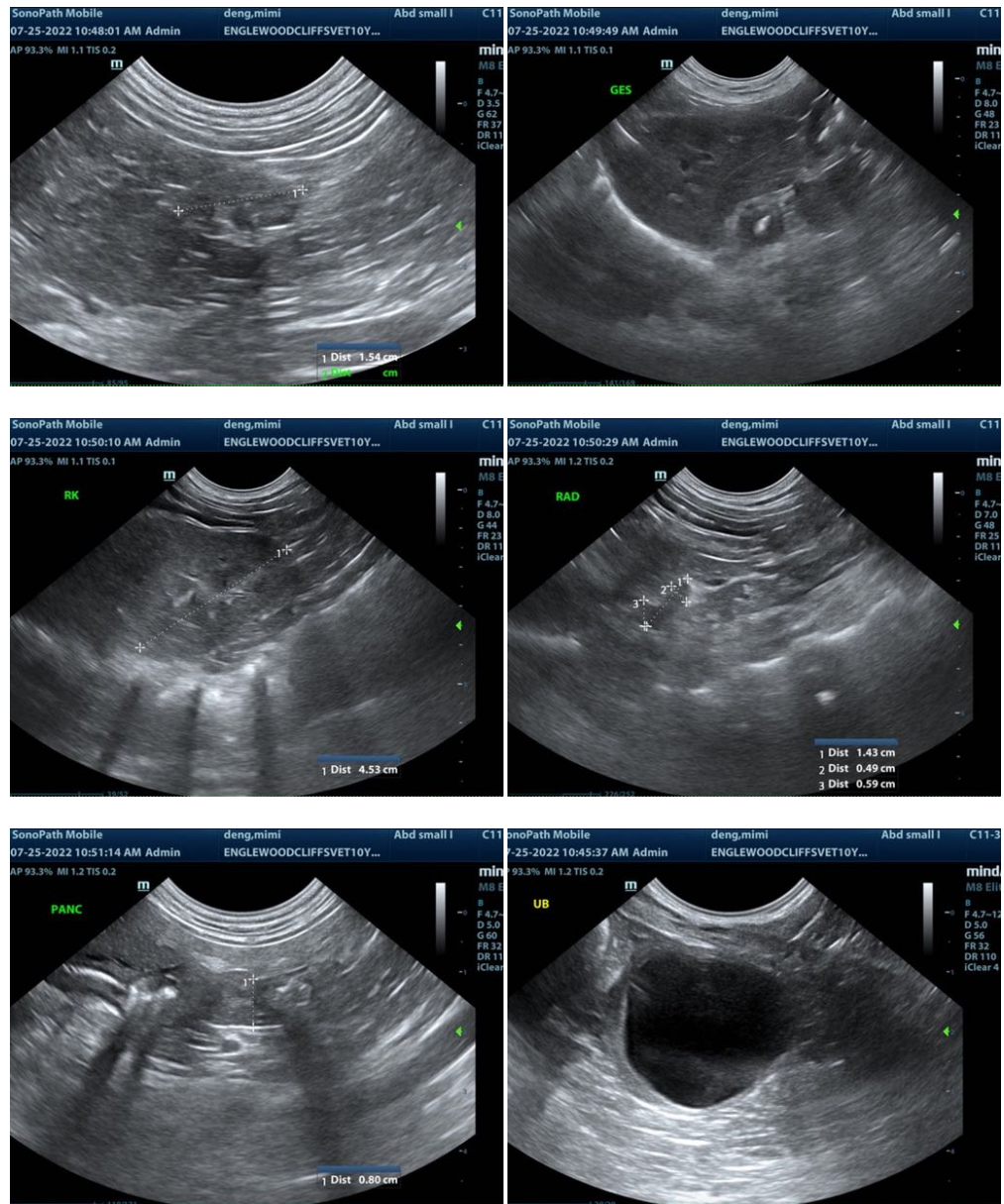
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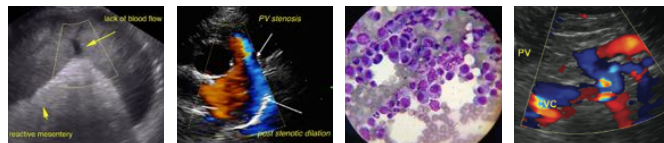


The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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



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