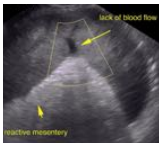
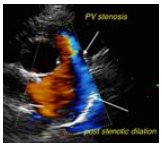
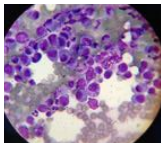
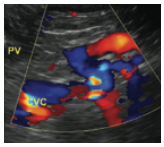
SonoPath
Clinical Sonography & Telecytology
EDUCATIONAL TELECONSULTATION SERVICES™





SonoPath.com
1-800-838-4268 info@sonopath.com

PATIENT

Jake Viscusi

SPECIES

Canine

BREED

Shih Tzu

SEX

Neutered male

AGE

14 ½ years

WEIGHT

8 kg

INTERPRETED BY

Eric Lindquist, DMV DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Turner

HOSPITAL NAME

Pennsauken Animal Hospital and Urgent Care

REFERRING VET

Dr. Turner

INVOICE

31757

DATE

7/18/22

PRESENTING CLINICAL SIGNS

History: Pet has had stable hyperadrenocorticism for more than a year, and is currently treated with Trilostane. Recent weight loss: 2 lbs in 2 months
Abnormal PE/Chem/CBC/UA Results: Corneal pigmentation OU, grade 1 pddz, pendulous abdomen with mild generalized muscle atrophy. Labs (attached): pre-stim cortisol 1.2, post-stim 1.7 (Trilostane dose has been decreased since). Survey BW: glucose 151mg/dl, Ca++ 12.6, K+ 5.5/Na+ 144, ALT 427 UI/L, AST 111 U/L, ALP 1119 U/L. Plts 918K. TT4 1.0mg/dl. UA: USG 1.038, protein 2+, sediment inactive, UPCR 0.4

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 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 right kidney measured 4.9 cm. The left kidney measured 4.3 cm.

Adrenal Glands

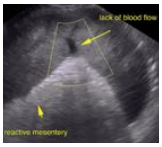
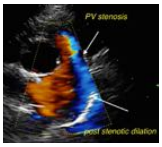
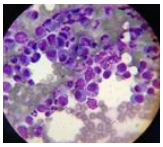
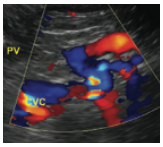
Both **adrenal glands** were visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. The left adrenal gland measured 1.96 x 0.66 cm at the caudal pole and 0.63 cm at the cranial pole. The right adrenal gland measured 1.3 x 0.7 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 was noted.

Liver

The right medial **liver** revealed a 7.0 x 6.0 cm mixed echogenic expansive mass. The mass expands cranially to the diaphragm with diaphragmatic deviation. A “puffy cloud” type parenchymal appearance

SonoPath.com
1-800-838-4268 info@sonopath.com

PATIENT

Jake Viscusi

SPECIES

Canine

BREED

Shih Tzu

SEX

Neutered male

AGE

14 ½ years

WEIGHT

8 kg

INTERPRETED BY

Eric Lindquist, DMV DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Turner

HOSPITAL NAME

Pennsauken Animal Hospital and Urgent Care

REFERRING VET

Dr. Turner

INVOICE

31757

DATE

7/18/22

is noted. The gallbladder did not appear involved; however, some heterogenous nodular changes were noted adjacent to the gallbladder.

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.

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

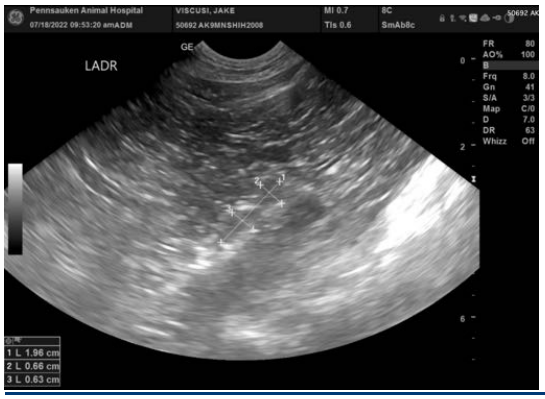
Overt right liver mass extending dorsal cranially to the diaphragm with concurrent adjacent nodular changes.

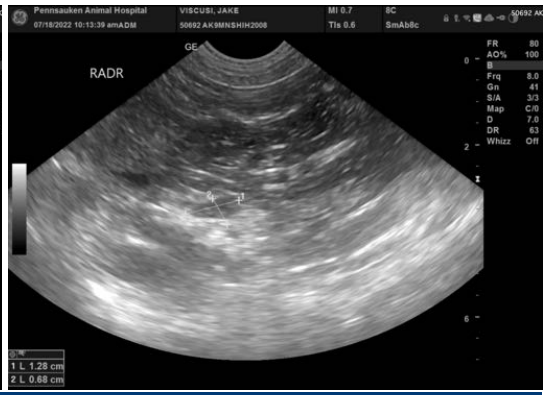
Age related abdominal changes otherwise.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

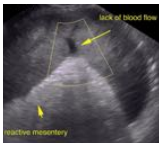
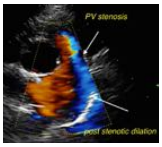
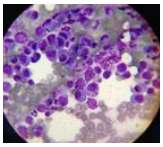
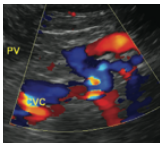
Structurally the adrenal glands are normal in this patient. PDH is still a possibility, yet a minor percentage of PDH patient's have a normal adrenal size. Reevaluation of the Cushingoid status is recommended.

The hepatic mass is not likely resectable; however, CT evaluation would be ideal for potential surgical planning. FNA of the liver is indicated. I suspect hepatocellular carcinoma.





SonoPath
Clinical Sonography & Telecytology
EDUCATIONAL TELECONSULTATION SERVICES™

SonoPath.com
1-800-838-4268 info@sonopath.com

PATIENT

Jake Viscusi

SPECIES

Canine

BREED

Shih Tzu

SEX

Neutered male

AGE

14 ½ years

WEIGHT

8 kg

INTERPRETED BY

Eric Lindquist, DMV DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Turner

HOSPITAL NAME

Pennsauken Animal Hospital and Urgent Care

REFERRING VET

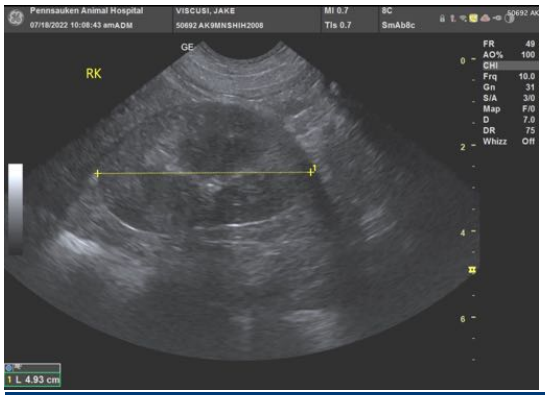
Dr. Turner

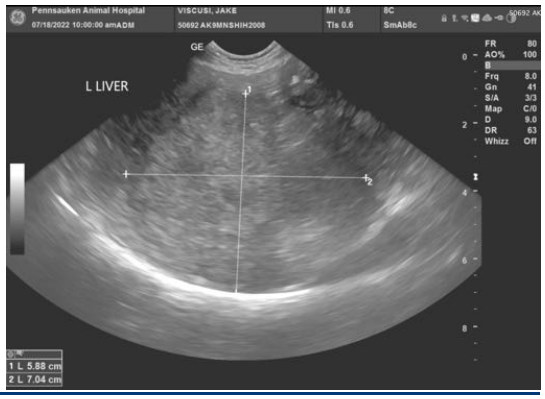
INVOICE

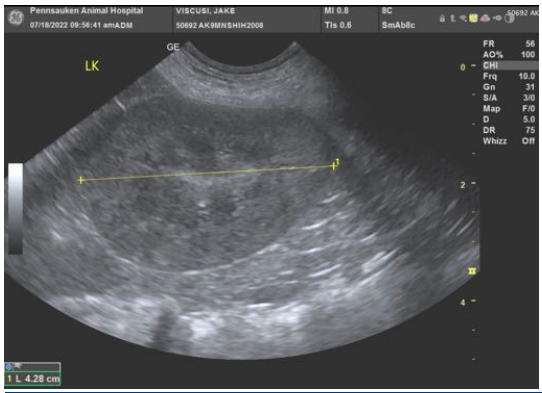
31757

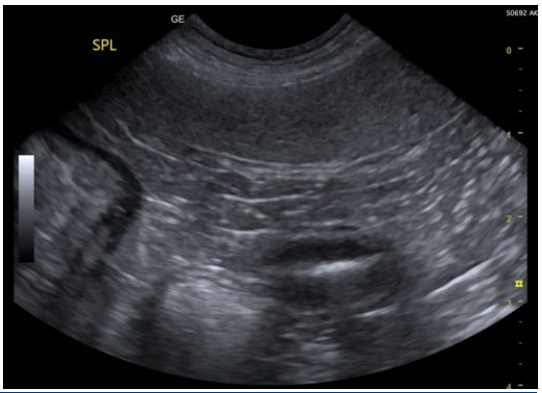
DATE

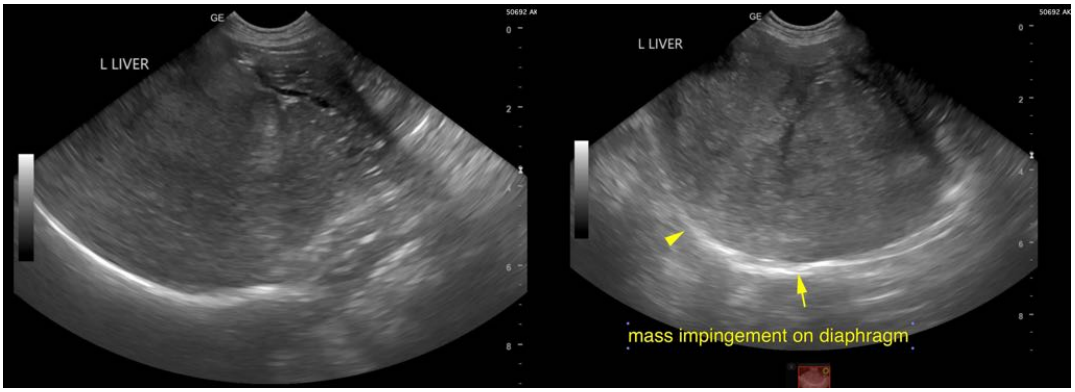
7/18/22

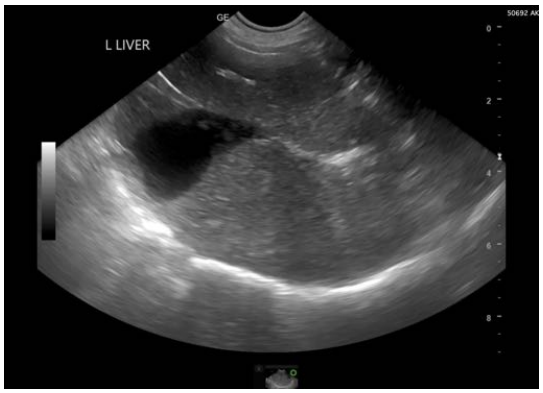




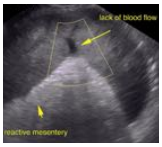


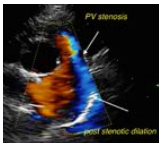


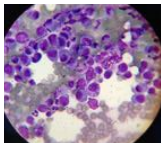
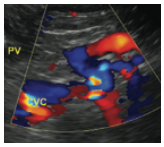




SonoPath
Clinical Sonography & Telecytology
EDUCATIONAL TELECONSULTATION SERVICES™





SonoPath.com
1-800-838-4268 info@sonopath.com

PATIENT

Jake Viscusi

SPECIES

Canine

BREED

Shih Tzu

SEX

Neutered male

AGE

14 ½ years

WEIGHT

8 kg

INTERPRETED BY

Eric Lindquist, DMV DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Turner

HOSPITAL NAME

Pennsauken Animal Hospital and Urgent Care

REFERRING VET

Dr. Turner

INVOICE

31757

DATE

7/18/22

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