

PATIENT

Petunia Christensen

SPECIES

Canine

BREED

Shih Tzu

SEX

Spayed female

AGE

8 years

WEIGHT

21.8 lbs

INTERPRETED BY

Eric Lindquist, DMV,
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Jenna Walsh, CVT

HOSPITAL NAME

Albany AH

REFERRING VET

Dr. Spangler

DATE

4/13/23

Invoice
43845

PRESENTING CLINICAL SIGNS

History: PU/PD Lethargy Started patient on levothyroxine 4/3/23, patient began having diarrhea so owner stopped med after 2 doses, diarrhea has continued Vomiting, diarrhea, inappetence Current Medications Metronidazole 125mg q12h, tramadol 50mg q8h Primary Question/Differential to Be Answered in This Exam hyperadrenocorticism, pancreatitis, neoplasia Overall kidney appearance/health given azotemia, isosthenuria
Abnormal PE/Chem/CBC/UA Results: Mild neutrophilia Thrombocytosis - 882k/uL SDMA 28 creatinine 1.9 BUN 64 USG - 1.016 K+ 3.7 Cl- 101 ALT 152, ALP 381, GGT 14 Lipase 1,144 TT4 - 1.1, fT4 0.6

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. The left kidney measured 3.97 cm. The right kidney measured 4.73 cm with pyelectasia.

Adrenal Glands

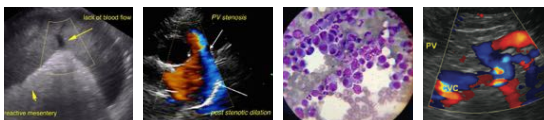
The left **adrenal gland** revealed an expansive 2.84 x 2.25 cm mass. The caudal pole measured 0.87 cm with capsular expansion without capsular escape. The right adrenal gland was normal in size and contour measuring 1.76 x 0.55 cm at the caudal pole and 0.78 cm at the cranial pole.

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 **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



PATIENT

Petunia Christensen

sludge was present. The liver presented coarse architecture with mildly increased portal markings and subtle, mixed echogenic changes. Increased portal markings were noted in the liver. This is consistent with vacuolar hepatopathy and some level of remodeling and history of inflammatory component. There was no overt suspicion of neoplasia.

SPECIES

Canine

Gastrointestinal

BREED

Shih Tzu

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.

SEX

Spayed female

Pancreas

The **pancreas** revealed hypoechoic, remodeled, irregular contour.

AGE

8 years

ULTRASONOGRAPHIC FINDINGS

Minor heterogenous pancreatic and hepatic changes with left adrenal mass.

WEIGHT

21.8 lbs

Geriatric abdomen.

INTERPRETED BY

Eric Lindquist, DMV,
DABVP, Cert. IVUSS

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Given the patient's history adenoma, adenocarcinoma or pheochromocytoma are all possible. The adrenal mass appears resectable. Blood pressure measurements are warranted. Work-up for Cushing's is indicated if dynamic function test for adrenal disease has not been performed. If hypertension is present then urine catecholamine is indicated. Surgical consult for left adrenalectomy is indicated. Urine culture and sensitivity is warranted if any inflammatory sediment is present in the urine given the pyelectasia that was noted in the right kidney.

IMAGING PERFORMED BY

Jenna Walsh, CVT

HOSPITAL NAME

Albany AH

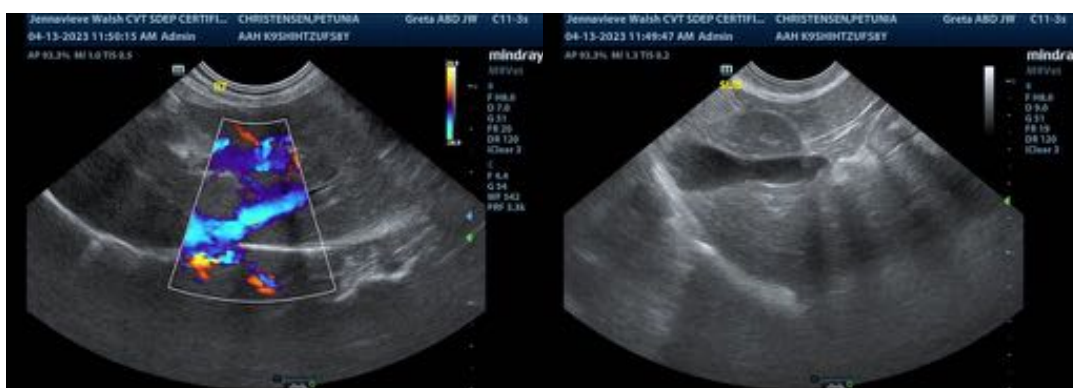
REFERRING VET

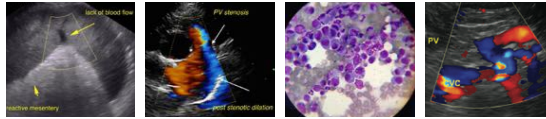
Dr. Spangler

DATE

4/13/23

Invoice
43845





PATIENT

Petunia Christensen

SPECIES

Canine

BREED

Shih Tzu

SEX

Spayed female

AGE

8 years

WEIGHT

21.8 lbs

INTERPRETED BY

Eric Lindquist, DMV,
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Jenna Walsh, CVT

HOSPITAL NAME

Albany AH

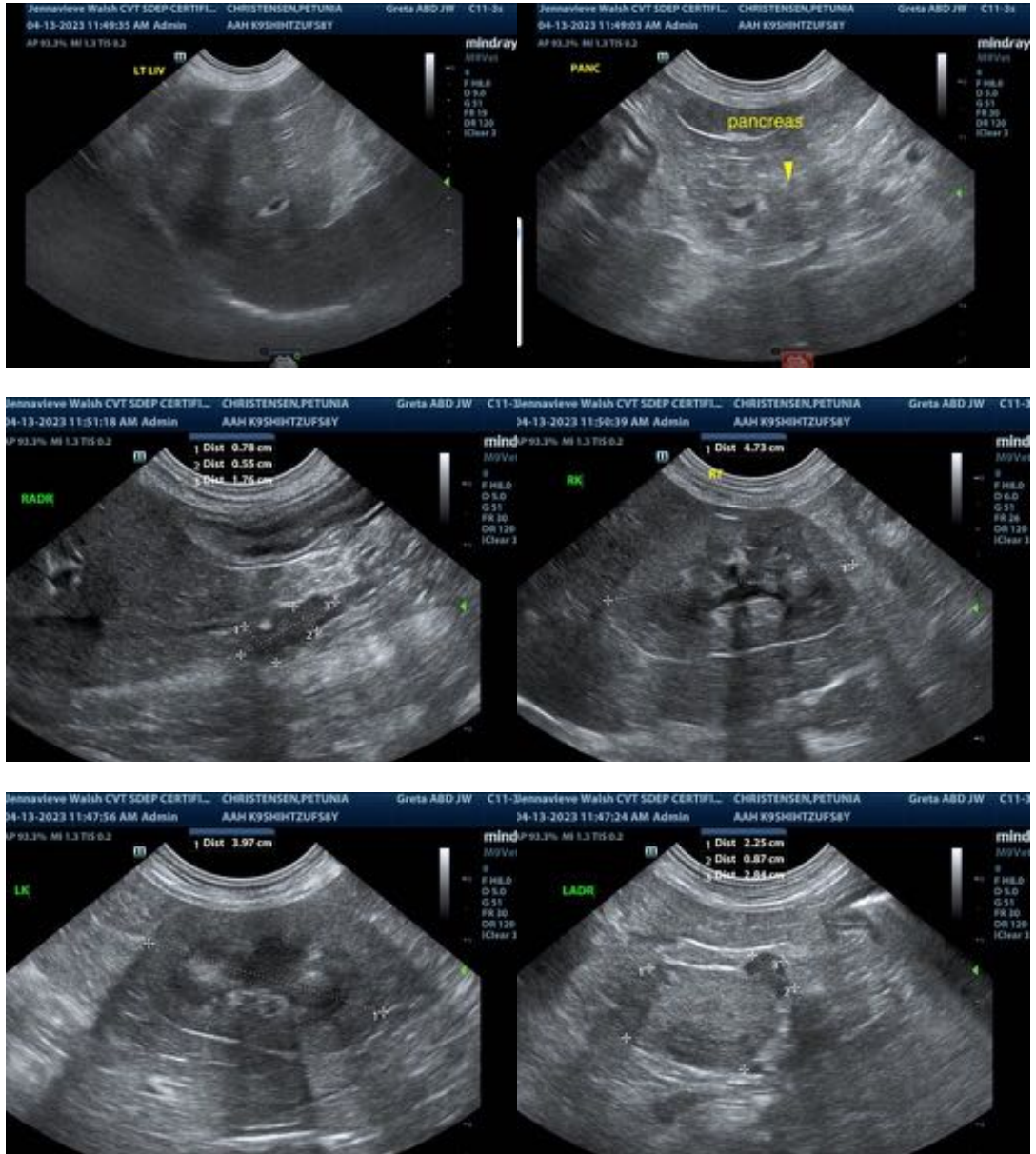
REFERRING VET

Dr. Spangler

DATE

4/13/23

Invoice
43845



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

Eric.Lindquist@SonoPath.com