



PATIENT PRESENTING CLINICAL SIGNS

Chloe Pascal history of seizures, elevated liver enzymes currently on zentonil advanced, kepra
Abnormal PE/Chem/CBC/UA Results: elevated ALKP, ALT, CHol, BUN, Creat, GGT, phos, SDMA

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Canine **Urinary System**

BREED 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.

SEX The **kidneys** presented moderate degenerative changes with increased cortical echogenicity and some loss of corticomedullary definition. Cortical remodeling noted. No evidence of neoplasia, obstructive disease, or active inflammation. The left kidney measured 5.0 cm. The right kidney measured 5.62 cm. The kidneys do not appear end stage. Subjectively appear approximately 50% compromised. Blood flow to the kidneys appeared adequate on power doppler assessment.

AGE
12 Years

Adrenal Glands

WEIGHT Both **adrenal glands** were visualized and recognized as having largely normal shape, position and acceptable echogenicity for this age group and breed. Some heterogeneity was noted within the adrenal parenchyma without concerning capsular distortion. These changes are likely age related but should be monitored by sonogram should the patient be suspected of having adrenal disease. The right adrenal gland measured 2.55 cm x 0.53 cm at the caudal pole and 1.41 cm at the cranial pole. The left adrenal gland measured at upper limits of normal, measuring 2.22 cm x 0.75 cm at the cranial pole and 0.60 cm at the caudal pole.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

Spleen

IMAGING PERFORMED BY

Kelly Reschny

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.

HOSPITAL NAME

Chedoke AH

Liver

The **liver** presented heterogenous parenchyma with increased portal markings and coarse architecture. Slight undulating capsular contour was noted. Mild gallbladder debris noted, not clinically significant. This is consistent with chronic inflammatory hepatopathy.

REFERRING VET

Dr. Heinen

Gastrointestinal

INVOICE

34137

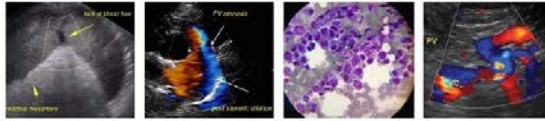
Examination of the **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. Small and large intestine demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.

DATE

1/11/22

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



PATIENT

upon imaging (+ Murphy sign) was present or if the patient is focally painful in subxyphoid palpation then low-grade smoldering chronic pancreatitis should be suspected.

Chloe Pascal

ULTRASONOGRAPHIC FINDINGS

SPECIES

- Non-specific hepatopathy
- Non-specific moderate degenerative renal changes

Canine

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

BREED

Given the patient history, Leptospirosis titers are indicated. FNA of the liver indicated to assess inflammatory cell type. Given the seizure activity, blood pressures and CT with contrast of the CNS would be ideal.

Havanese

SEX

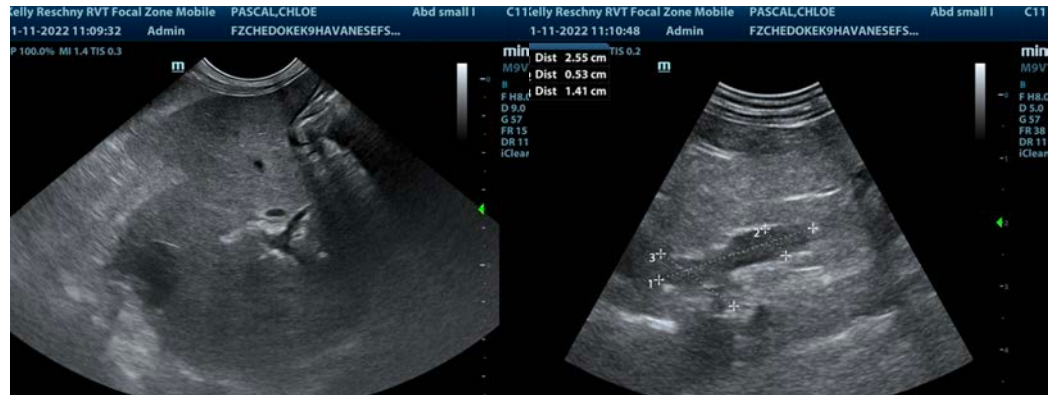
Spayed Female

AGE

12 Years

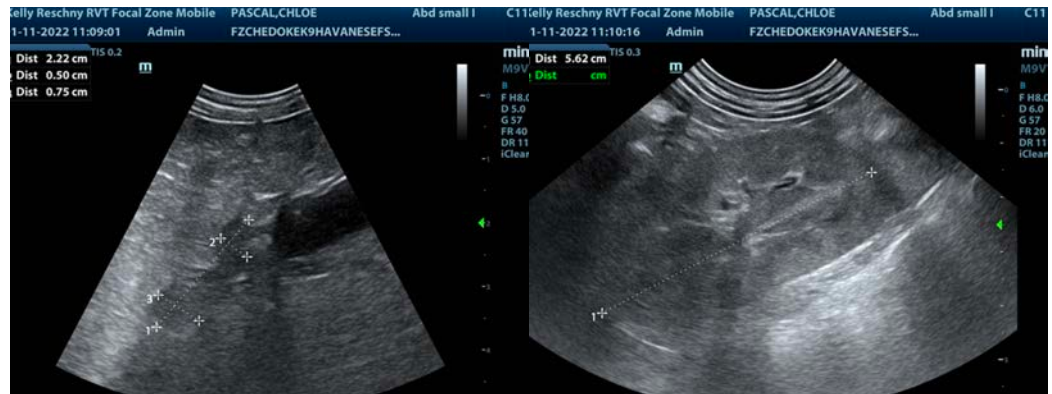
WEIGHT

8.2 kg



INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS



IMAGING PERFORMED BY

Kelly Reschny

HOSPITAL NAME

Chedoke AH

REFERRING VET

Dr. Heinen

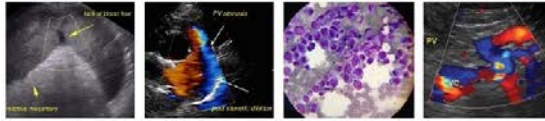
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PATIENT

Chloe Pascal

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

SPECIES

Canine

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.

BREED

Havanese

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

SEX

Spayed Female

AGE

12 Years

WEIGHT

8.2 kg

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