



PATIENT PRESENTING CLINICAL SIGNS

Chloe Hockman

History: 4-6wk history of periodic vomiting. Last 36hrs owner has switched to egg and rice, dog has not vomited since then, is eating well, and is relatively normal energy and attitude at home. On exam, cranial abdomen was uncomfortable on palpation. Dog takes 1/2 3.6mg apoquel SID for allergies and 25mg zonisamide BID for seizures of unknown etiology. Labs 12/13/21 - Retic 143.9, Plt 630 ; chloride 106, ALT too high to read, ALP >2000, cholest 401 GGT 54, abnormal cPL. Tbili, albumin, TP WNL. Bile acids 12/14/21 pre: 51.1, post: 45.2. Dog started cerenia, clavamox, denamarin yesterday, will start Ursodiol today.

SPECIES

Canine

BREED

Chihuahua

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

SEX

Spayed Female

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.

AGE

10 years

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 this age patient. Medullary structure differed distinctly from that of the cortex and no evidence of pelvic dilation was present. Slight pinpoint mineralization were noted. The left kidney measured 3.0 cm. The right kidney measured 3.0 cm.

WEIGHT

6 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

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 revealed a hyperechoic nodule in the caudal pole that measured 0.7 cm. The cranial pole measured 0.5 cm. The right adrenal gland measured 0.6 cm at the cranial pole and 0.4 cm at the caudal pole.

IMAGING PERFORMED BY

Rachel Wiley

HOSPITAL NAME

Petvacx AH

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. Jacob

INVOICE

94601

Liver

The **liver** revealed non-specific coarse architecture with mildly increased portal markings. Minor uniform swelling was noted. This is a non-specific presentation. Hypoechoic, nodular changes were noted in the liver. The gallbladder was over distended with largely immobile bile. There was no evidence of inflammation associated with the gallbladder.

DATE

12/14/21



PATIENT

Gastrointestinal

Chloe Hockman

Examination of the **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. Retention of ingesta was noted in the stomach. 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.

SPECIES

Canine

BREED

Pancreas

Chihuahua

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.

SEX

Spayed Female

AGE

ULTRASONOGRAPHIC FINDINGS

10 years

Non-specific acute on chronic cholangiohepatitis with non-disruptive, nodular changes and emerging gallbladder mucocele.

WEIGHT

Slight left adrenal nodule, likely adenoma.

6 lbs

Suspect low-grade pancreatitis, yet this is not the primary issue.

INTERPRETED BY

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Eric Lindquist, DMV
DABVP, Cert. IVUSS

Leptospirosis titers are warranted. Ultrasound-guided FNA of the liver is recommended. Ursodiol therapy is warranted. Ampicillin and Metronidazole combination and liver support is all recommended. There is no evidence of suspicion of neoplasia. Ursodiol is recommended over an 8 week period would be warranted. If the patient stabilizes then a recheck sonogram is recommended at that time. Historical assessment for exposure to hepatic toxins would also be indicated.

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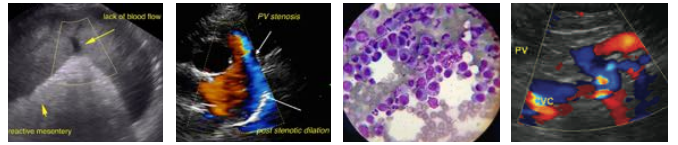
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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