



PATIENT PRESENTING CLINICAL SIGNS

Patient: Pistol Chick
Species: Canine
Breed: Chihuahua

Presented to rDVM 2/28 for lethargy and inappropriate urination. Blood work - see below. Rads - mild LA enlargement, no evidence of CHF, no pulmonary nodules present. Hepatomegaly. Transfer from rDVM 2/28 evening for ongoing care. On exam, P is mildly bradycardic, no murmur, abdomen mildly distended and tender.

Abnormal PE/Chem/CBC/UA Results: From rDVM 2/28/22 - CBC: HCT 53.1%, leukogram wnl, thrombocytosis 551k At wilvet - Chem 17: BG 40 (sample sat for a while before running), ALB 4, ALT 926, ALKP 701, GGT 14, TBIL 0.5 (normal), rest wnl. Lytes: all wnl. K 4.9, Na 157, Cl 118 LAC = 3 (slightly elevated) PT wnl 15s, PTT wnl 90s UA (cystocentesis)- straw, clear-colored urine. USG 1.012 (was on IVF at rDVM today prior to sample collection), pH 6.0. WBC <1/hpf, RBC <1/hpf. 11 pm - recheck BG 106

SEX ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Neutered male

Urinary System

AGE

15 years

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.

WEIGHT

11 lbs

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. The left kidney measured 4.0 cm.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

Adrenal Glands

IMAGING PERFORMED BY

Dr. Couser

The left **adrenal gland** was enlarged, irregular, hyperechoic and nodular. The left adrenal gland measured 2.5 x 1.8 cm. There was capsular expansion without capsular escape. The right adrenal gland was normal in size and contour measuring 1.0 cm at the cranial pole and 0.6 cm at the caudal pole.

HOSPITAL NAME

Willamette VH

Spleen

REFERRING VET

Dr. Couser

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.

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Liver

DATE

2/28/22

The **liver** presented heterogenous parenchyma with increased portal markings and coarse architecture. Slight undulating capsular contour was noted. There was minor, irregular swelling of the caudate process noted. The gallbladder was mildly over distended with suspended and dependent debris, yet not



PATIENT

to the level of emerging mucocele. However, the sludge appears to be mildly excessive. No adjunctive inflammation was noted.

Pistol Chick

SPECIES

Gastrointestinal

Canine

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.

BREED

Chihuahua

Pancreas

SEX

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.

Neutered male

AGE

15 years

ULTRASONOGRAPHIC FINDINGS

WEIGHT

Enlarged, irregular left adrenal gland. Differentials include adenoma, hyperplasia, myelolipoma, pheochromocytoma or carcinoma.

11 lbs

Non-specific chronic inflammatory hepatopathy liver pattern.

INTERPRETED BY

Otherwise, geriatric abdomen.

Eric Lindquist, DMV
DABVP, Cert. IVUSS

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

IMAGING PERFORMED BY

Core liver biopsy is ideal. FNA can be considered for further definition of inflammatory cell type. Leptospirosis titers are warranted. Serial blood pressure measurements are warranted. If hypertension is present then urine catecholamine is indicated. If the patient appears Cushingoid then work-up for adrenal dependent Cushing's is indicated.

Dr. Couser

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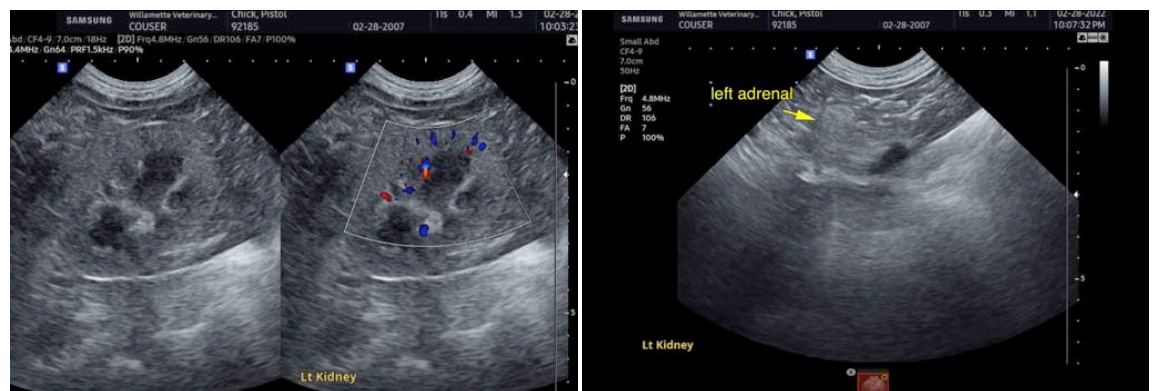
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AGE

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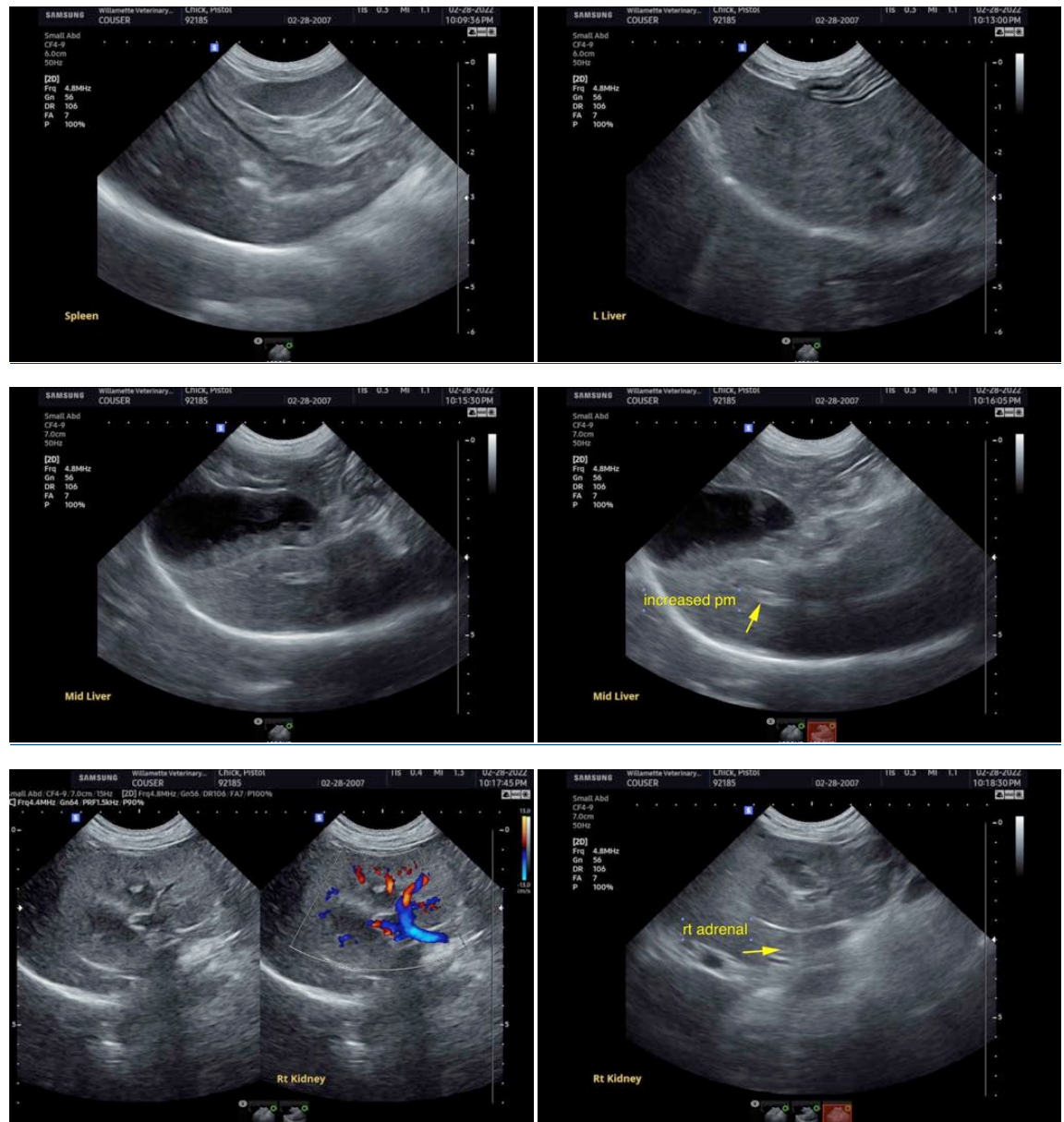
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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