



PATIENT PRESENTING CLINICAL SIGNS

PATIENT
Polly Payne

SPECIES
Canine

BREED
Labrador

History: Hx of elevated liver values for last 6 months QAR, MM pale pink, icteric, Thoracic auscultation no murmur, regular rate and rhythm, eupneic normal BV sounds, Abdominal palpation non-painful, distended, splenomegaly noted, no masses palpable

Abnormal PE/Chem/CBC/UA Results: rDVM labs: CBC - HCT 27%, Retic 204k*, WBC 11.18, Neut 8.56, PLT 45* Chem - SDMA 20*, Crea 1.7*, BUN 10, Phos 4, Ca 9.8, TP 5.8, ALB 2.6, Glob 3.2, ALT 422*, ALP 387*, GGT 18*, Tbil 8.6*, Chol 146, Na 156, K 4.4, Cl 115, TT4 0.7 Previous BW:08/21 - Chem - HCT 40%, Neut 6.19, PLT 208 SDMA 18, Crea 1.4, BUN 16, Phos 3.7, ALB 3.3, Glob 3.2, ALT 519*, ALP 276*, GGT 6, Tbili 0.4 12/14 CBC - HCT 32.4%*, Retics 184.3*, WBC 12.7, Neu 10.29, PLT 71k* EPOC - Ca 1.23, Cl 120, Crea 1.13, Glu 85, K 4, Na 147, Lac 2.55*, pH 7.422, TCO2 18.7, BUN 9, HCT 32% PT: 68* (11-17) PTT: >300* (72-102) slide agglutination - negative micro/macro

SEX ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

SEX
Spayed Female

Urinary System

AGE
12 years

The **urinary bladder** presented a small calculus with minimal shadowing. The calculus measured 0.4 cm and was non-obstructive. The remainder of the bladder was unremarkable with anechoic urine.

WEIGHT
102 lbs

The **kidneys** revealed normal size and structure, corticomedullary definition and ratio for this age. The cortices presented largely uniform texture with normal echogenic relationship to liver and spleen. Medullary structure differed distinctly from the cortex. The capsules were acceptably uniform without significant irregularities. The left kidney measured 5.5 cm with trace pyelectasia. Vascularity in the kidneys appeared normal. The right kidney measured 6.0 cm.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

Adrenal Glands

The **adrenal glands** were not visualized.

IMAGING PERFORMED BY

Dr. Peterson

Spleen

HOSPITAL NAME

Willamette VH

The **spleen** revealed heterogenous, hypoechoic nodular changes with irregular capsular contour. Hyperechoic nodules were also noted. This is consistent with lipogranulomas.

REFERRING VET

Dr. Peterson

Liver

Minimal **liver** was visualized. However, the visible liver appeared unremarkable, but was minimally visualized owing to artifact and positioning. The gallbladder and common bile duct were not visualized.

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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. Minor luminal material was noted in the stomach. Small and large intestine demonstrated normal luminal chyme and stool consistency

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respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.

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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.

BREED

Labrador

ULTRASONOGRAPHIC FINDINGS

SEX

Spayed Female

Irregular spleen.

Minor retention of ingesta noted in the stomach.

Otherwise, unremarkable abdomen based on the image set submitted.

AGE

12 years

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

WEIGHT

102 lbs

Further imaging of the gallbladder and common bile duct is recommended to assess for the possibility of post hepatic obstruction. Leptospirosis titers are indicated. Hepatic and splenic FNA is indicated.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

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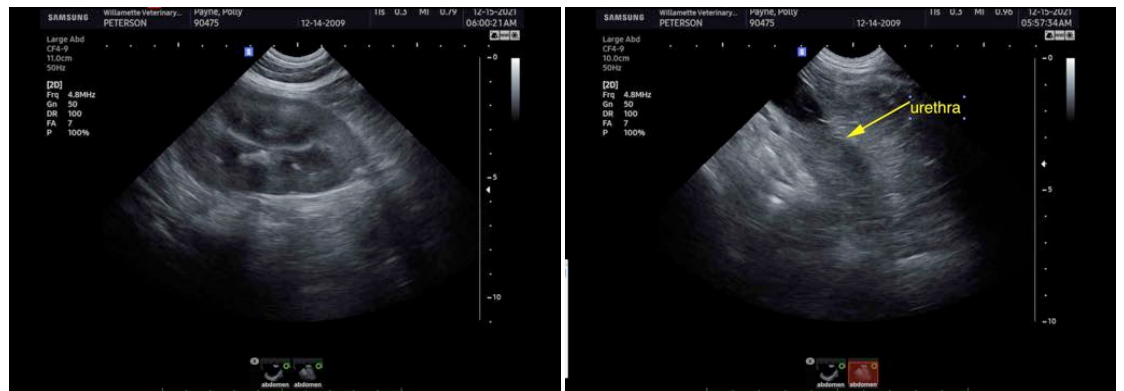
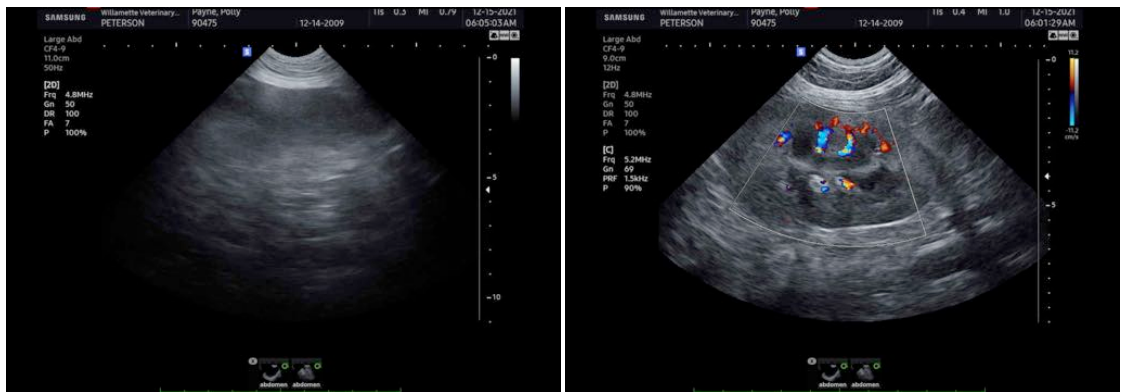
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ADDENDUM

Further images were submitted of the liver. The gallbladder was slightly thickened, yet essentially collapsed. The liver revealed increased portal markings and was heterogenous with coalescing nodular changes. The contour was irregular. This is consistent with diffuse fibrosis and emerging cirrhosis. There is a potential for hepatic lymphoma, yet less likely. Core biopsy is recommended. Biopsies are strongly recommended for cursory results; however, this is a diffuse structural disease issue. Given the age of the patient primary copper is unlikely to be an issue, but should be quantified if biopsies are performed. If crusting skin lesions are present then there is a mild potential for underlying hepatocutaneous syndrome given the lacy appearance.

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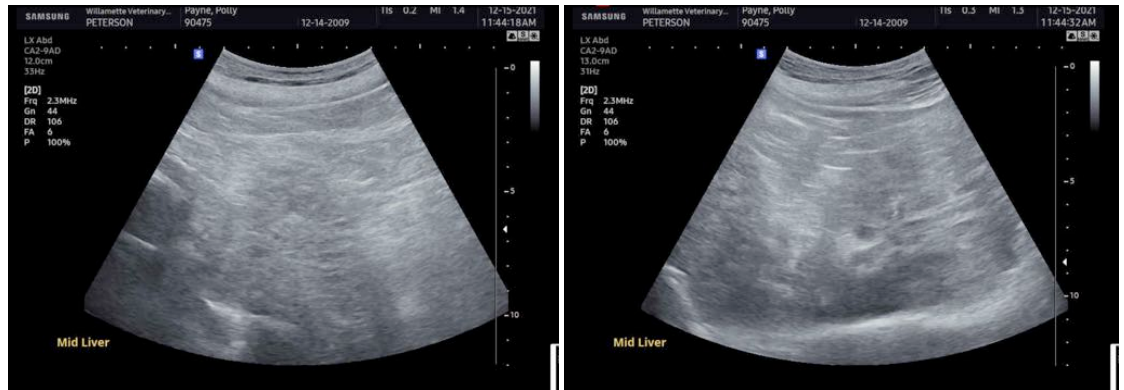
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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