



PATIENT PRESENTING CLINICAL SIGNS

Cooper Parsons Dog is small for its age. Attending concerned about liver disease.
Abnormal PE/Chem/CBC/UA Results: Moderate elevation of liver enzymes Bile acids not performed.

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Canine

Urinary System

BREED

The **urinary bladder** presented slight concretion, non-obstructive. Unremarkable otherwise.

Cocker Spaniel

The **kidneys** presented normal size and contour, yet minor heterogeneous parenchymal changes noted. The left kidney measured 4.55 cm. The right kidney measured 4.87 cm. Hyperechoic corticomedullary rim noted in both kidneys. Mineralization noted.

SEX

Neutered Male

Adrenal Glands

AGE

16 Months

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 measured 0.47 cm at the cranial pole and 0.25 cm at the caudal pole. The right adrenal gland measured 0.67 cm at the cranial pole and 0.50 cm at the caudal pole.

WEIGHT

6.6 kg

Spleen

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

The **spleen** presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The spleen was folded upon itself cranially. 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.

Liver

IMAGING PERFORMED BY

Dr. Belan

The **liver** was subnormal in size. The gallbladder was unremarkable. In the shunt hunt portion of the scan, significant over gaining was causing color bleeding in this patient. Therefore, color doppler assessment was not able to be utilized. The vena cava appeared subjectively enlarged.

HOSPITAL NAME

Beddington AC

Gastrointestinal

REFERRING VET

Dr. Banahur

There was some residual chyme and gas was noted in the **stomach**, yet not pathological. This is consistent with end post prandial presentation. Transit of chyme into the small intestine was normal. Curvilinear patterns were maintained throughout the GI tract. No evidence of pathology. 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.

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Pancreas

DATE

6/23/23

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.

Free Abdomen

Reactive mesenteric lymph nodes noted up to 0.40 cm.



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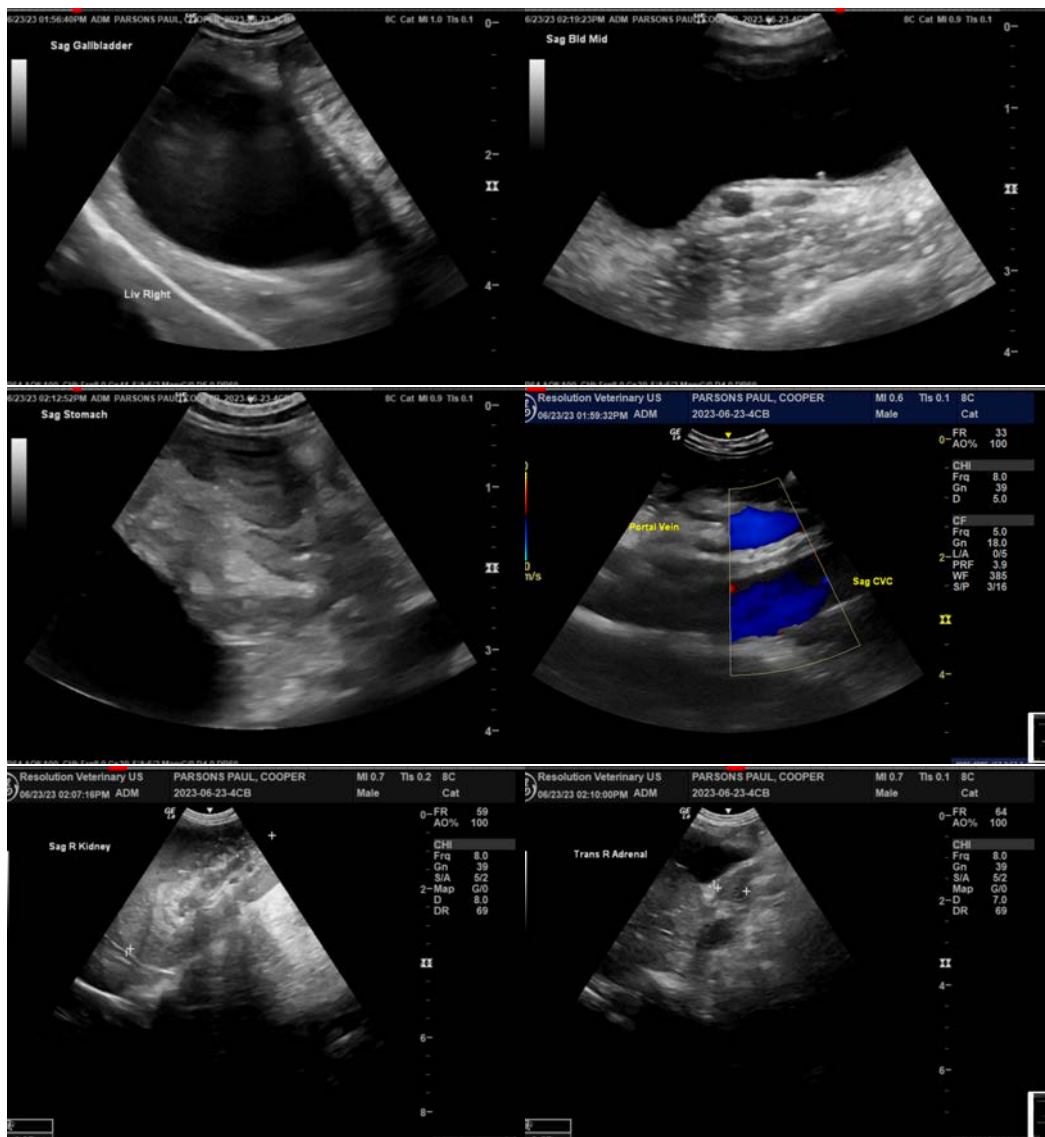
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ULTRASONOGRAPHIC FINDINGS

- Enlarged vena cava
- Minor bladder concretion
- Mineralization/medullary rim of the kidneys, which would suggest potential abnormal biurate metabolism
- Partially full stomach
- Reactive lymph nodes

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

potential extrahepatic portosystemic shunting, yet further imaging warranted if bile acid elevations are present, or CT with contrast.





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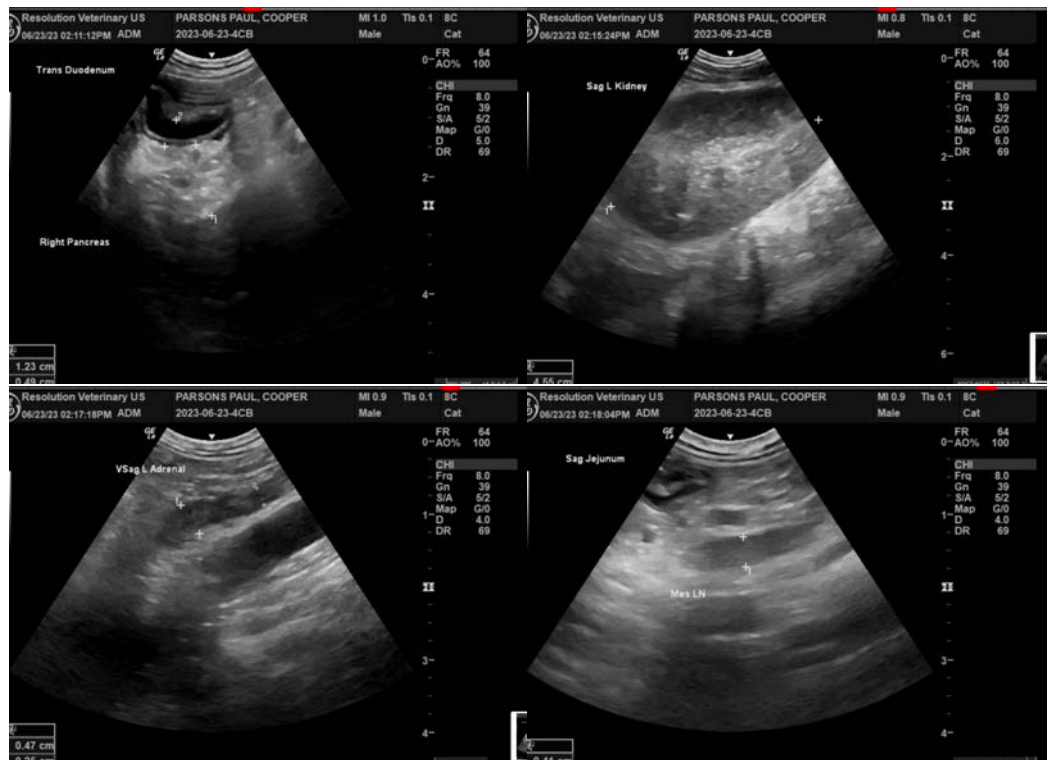
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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