

PATIENT PRESENTING CLINICAL SIGNS

Cookie Briscione Chronic c+. Current med: lasix 12.5mg SID, Pimobendan 4mg 3/4 BID.

SPECIES Abnormal PE/Chem/CBC/UA Results: ALT 132, ALP 266, BUN 57, Ca 12.0, K 6.1, Na/K 24

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED *Urinary System*

Cavachon The urinary bladder is moderately distended with anechoic contents. No masses, inflammatory changes, echogenic sediment or cystoliths are observed. The urinary bladder, trigone and visible pelvic urethra are normal in thickness with a smooth mucosal surface.

SEX

Spayed Female Kidneys are overall normal in size and shape with smooth peripheral margination. A normal 1:3 cortex to medulla ratio is maintained. The medulla and cortices are uniform in texture with some mild increased cortical echogenicity and mild loss of corticomedullary distinction, expected in this age patient. Trace pyelectasia was noted bilaterally. There is no evidence of mineral or infarcts observed. The left kidney measures 4.76 cm. The right kidney measures 5.94 cm.

AGE

16 yrs

Adrenal Glands

WEIGHT The right adrenal gland is normal in size (cranial 1.3 cm, caudal 0.55 cm), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.

29.4#

The left adrenal gland is normal in size (cranial 0.79 cm, caudal 0.76 cm), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.

INTERPRETED BY

Beth Johnson, DVM
DACVIM

Spleen

Spleen is subjectively normal in size with a normal smooth capsular contour. Parenchyma is appropriately finely textured and homogenous with normal echogenicity relative to surrounding tissue (hyperechoic to liver). Multifocal well-demarcated hyperechoic homogenous nodules are noted. Splenic vasculature appears normal.

IMAGING PERFORMED BY

Jessica Miller, RDMS

Liver

Liver is subjectively enlarged with mildly irregular margins. Parenchyma is heterogenous characterized by multiple poorly defined hypoechoic nodules within otherwise hyperechoic liver parenchyma. Visible vasculature and biliary tree appear normal without distension or congestion.

HOSPITAL NAME

Animal General on Hudson

Gallbladder is moderately distended with anechoic bile as well as suspended and gravity dependent echogenic debris. The wall is smooth without visible thickening. There is no evidence of cystic or CBD dilation. There is no evidence of effusion or inflammation.

REFERRING VET

Dr. Ng

Gastrointestinal

The stomach wall is normal in thickness (canine < 0.5 cm and feline < 0.4 cm) and layering. The lumen of the stomach is empty with no evidence of obstruction or foreign material. Pyloric outflow tract appears patent.

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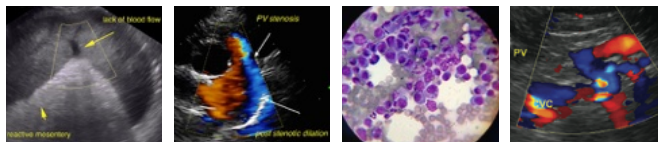
The visible small intestines are normal in wall thickness and layering (canine duodenum < 0.5 cm and feline duodenum < 0.4 cm; other < 0.3 cm). Small intestinal motility appears adequate (1-3 contractions per min). The lumen of the small intestine is empty with no evidence of obstruction or foreign material.

DATE

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The visible colon is normal in wall thickness (< 0.2 cm) and layering. Contents are consistent with normal formed feces and gas.

Pancreas



PATIENT	The observed pancreas appears appropriately isoechoic to surrounding omental fat. The capsule is mildly irregular in shape. Parenchyma is mildly heterogenous and coarse. There is no visible pancreatic duct dilation. There is no evidence of active peripancreatic inflammation.
Cookie Briscione	
SPECIES	Free Abdomen
Canine	There is no evidence of free peritoneal effusion noted in these images.
BREED	There is no apparent lymphadenopathy noted in these images.
Cavachon	
SEX	
Spayed Female	
AGE	
16 yrs	
WEIGHT	
29.4#	
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Beth Johnson, DVM DACVIM	
IMAGING PERFORMED BY	
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ULTRASONOGRAPHIC FINDINGS

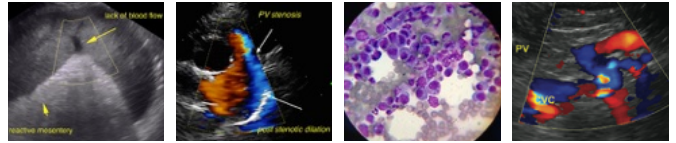
- **Heterogenous Liver** – These changes are most consistent with benign processes such as nodular hyperplasia, steroid (vacuolar) hepatopathy, extramedullary hematopoiesis or possibly chronic inflammatory disease and less commonly infiltrative round cell or metastatic neoplasia.
- **Mild Gallbladder debris** - Cholecystic debris is of unknown clinical significance. It can be seen with biliary stasis from fasting or illness. Cholecystic debris is not necessarily related to hepatobiliary disease. Echogenic bile is most commonly an incidental finding in dogs and should be interpreted in combination with clinical signs such as nausea, inappetence, cranial abdominal discomfort and/or laboratory changes such as increased ALP and/or increased Tbili.
- **Pancreatic age-related remodeling** – Mild irregularities are consistent with benign age-related change. Low-grade smoldering chronic pancreatitis cannot be ruled out and should be suspected in the face of appropriate clinical signs.
- **Hyperechoic splenic nodules** – most consistent with benign myelolipomas. Other differentials such as fibrosis or calcification caused by old hematomas or infarcts, chronic inflammation, granulomatous disease, or metastatic disease cannot be ruled out, but are considered less likely.
- Age related kidney changes with trace pyelectasia.
- Overall, this exam is similar to the last study.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

While this patient reported laboratory changes are likely secondary to Lasix, +/- other medications, a baseline cortisol is recommended. If baseline cortisol is less than 2, a full ACTH stimulation test is recommended to rule out hypoadrenocorticism.

Pending results further evaluation of the hypercalcemia is recommended with a malignancy panel to include PTH, PTHrP, and ionized calcium.

Beyond that additional diagnostic recommendations as well as therapeutic recommendations etc. are dependent on patient's previous work up, current clinical signs, etc.



PATIENT

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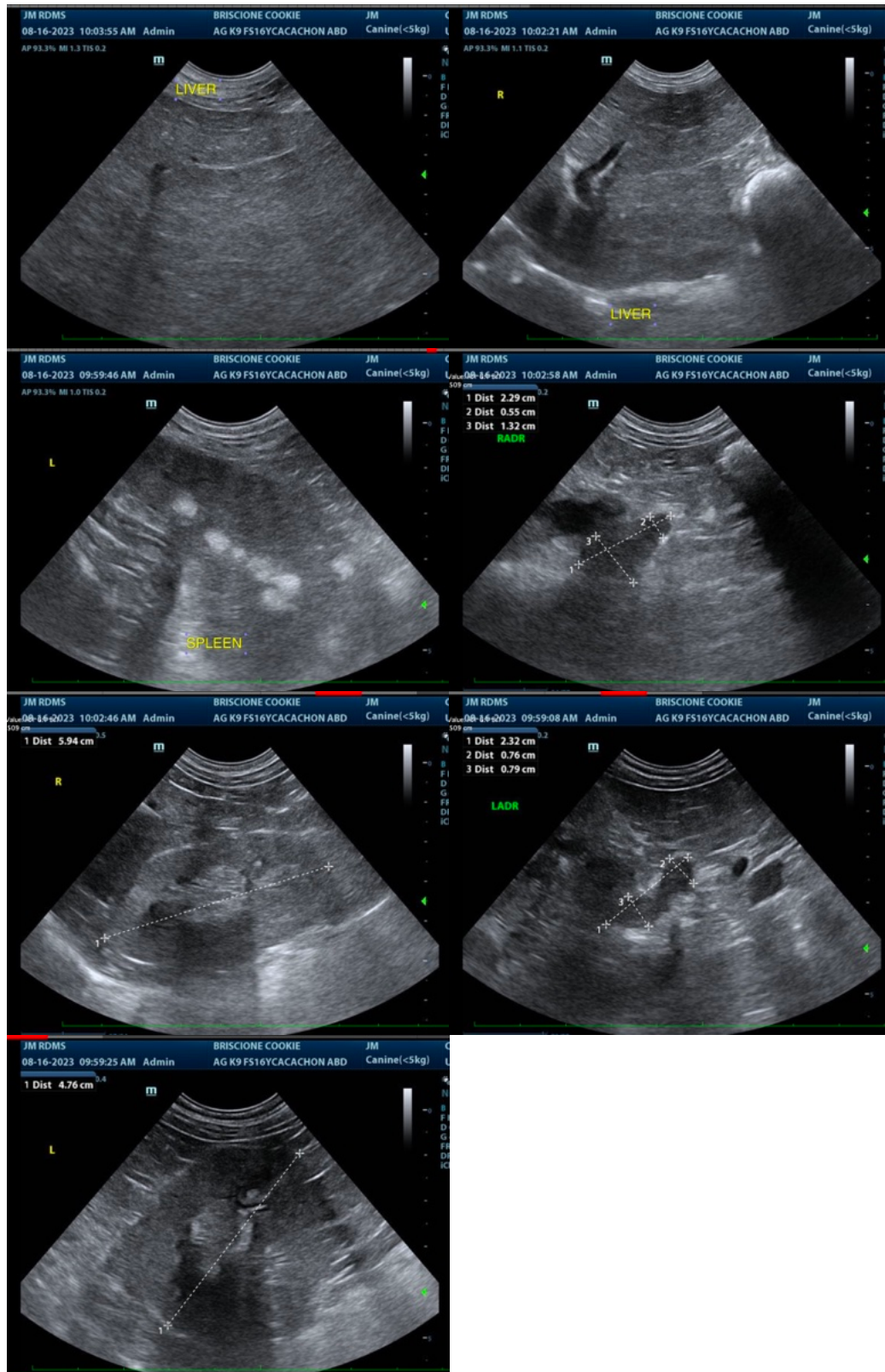
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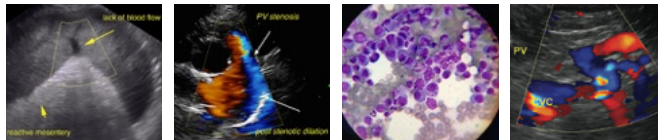
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PATIENT

Cookie Briscione

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.

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

Cavachon

Beth Johnson, DVM, DACVIM
info@sonopath.com

SEX

Spayed Female

AGE

16 yrs

WEIGHT

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