



PATIENT

Buddy Arenburg

SPECIES

Canine

BREED

Labrador

SEX

Neutered Male

AGE

8.5 Years

WEIGHT

107 Pounds

INTERPRETED BY

Beth Johnson, DVM
DACVIM

IMAGING PERFORMED BY

Dr. Meghan Myers

HOSPITAL NAME

Hershire AH

REFERRING VET

Dr. Meghan Myers

INVOICE

41767

DATE

9/29/22

PRESENTING CLINICAL SIGNS

Unfortunately we do not have much of a history on pet yet as transferred from another vet and they have not gotten records to us. Pet was recently diagnosed with cushings disease, proteinuria and azotemia. Previous vet recommended ultrasound and pet just moved here. Is pu/pd, has arthritis, good appetite, no significant vomit/diarrhea concerns.

Abnormal PE/Chem/CBC/UA Results: azotemia, proteinuria per owner.

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

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.

The prostate is unable to be well visualized in these images.

Kidneys are normal in size and contour. A relatively uniform hyperechogenicity is observed with mildly decreased corticomedullary distinction. There is no pyelectasia noted and no mineral is observed. No overt masses/nodules are observed. The left kidney measures 7.5 cm. The right kidney measures 7.3 cm. Cortical cysts are noted bilaterally.

Adrenal Glands

The right adrenal gland is normal in size (2.5 cm long x 0.76 cm thick), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.

The left adrenal gland is normal in size (0.90 cm at the cranial pole and 0.50 cm at the caudal pole), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.

Spleen

Spleen is subjectively large in size with normal smooth margins. Parenchyma is normal in echogenicity with a coarse/heterogenous echotexture. No focal nodules or masses are observed. Splenic vasculature appears normal.

Liver

Liver is subjectively enlarged (swollen contour) without disruption of architecture. It has a normal homogenous echotexture. Parenchyma is diffusely hyperechoic characterized by less prominent than normal portal vein walls and increased echogenicity relative to the spleen and falciform fat. No focal lesions are observed. Visible vasculature and biliary tree appear normal without distension or congestion.

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.

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, foreign material or infiltrative disease. Pyloric outflow tract appears patent.



PATIENT	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, foreign material or infiltrative disease.
Buddy Arenburg	
SPECIES	The visible colon is normal in wall thickness (< 0.2 cm) and layering. Contents are consistent with normal formed feces and gas.
Canine	
BREED	Pancreas
Labrador	The pancreatic parenchyma is appropriately isoechoic to surrounding tissue. Visible capsule is smooth and normal in contour. There is no visible pancreatic duct dilation. There is no evidence of active peripancreatic inflammation.
SEX	Free Abdomen
Neutered Male	There is no evidence of free peritoneal effusion noted in these images. There is no apparent lymphadenopathy noted in these images.
AGE	ULTRASONOGRAPHIC FINDINGS
8.5 Years	<ul style="list-style-type: none"> • Nephritis – This appearance can be consistent with chronic interstitial nephritis or glomerulonephritis. Toxic insult and/or infectious disease (pyelonephritis, Leptospirosis, etc.) cannot be ruled out. This finding should be interpreted in combination with suspicion for renal disease and/or supporting laboratory or urinalysis changes. • Coarse splenomegaly – can be associated with congestion caused by sedation (if sedated) but can also be associated with diffuse infiltrative disease. Both benign conditions such as extramedullary hematopoiesis, lymphoid hyperplasia, as well as infiltrative neoplastic diseases such as round cell neoplasia should be considered. • Hyperechoic hepatomegaly - This appearance is non-specific and most consistent with a benign steroid (endocrine) or vacuolar hepatopathy or reactive or idiopathic hepatopathy. Inflammatory and/or infiltrative disease (such as round cell neoplasia) are also possible, but considered less likely.
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HOSPITAL NAME	INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS
Hershire AH	Given this patient's history of suspect protein losing nephropathy and azotemia +/- hyperadrenocorticism, etc., a blood pressure is recommended if not recently evaluated. Given the appearance of the kidneys combined with that history, testing for Leptospirosis is also warranted.
REFERRING VET	The adrenal glands appear normal. However, that doesn't rule out hyperadrenocorticism, so if there is suspicion of it based on clinical signs and testing has not been performed, a low-dose Dexamethasone suppression test could be considered as well. However, kidney disease and proteinuria, etc., can obviously mimic the clinical signs of hyperadrenocorticism, so my recommendation would be to focus on the kidneys, proteinuria, hypertension if present, etc. prior to initiating further workup/treatment of hyperadrenocorticism.
Dr. Meghan Myers	
INVOICE	Fine needle aspirates of the spleen and liver could be considered if patient's coagulation status is appropriate, especially the spleen.
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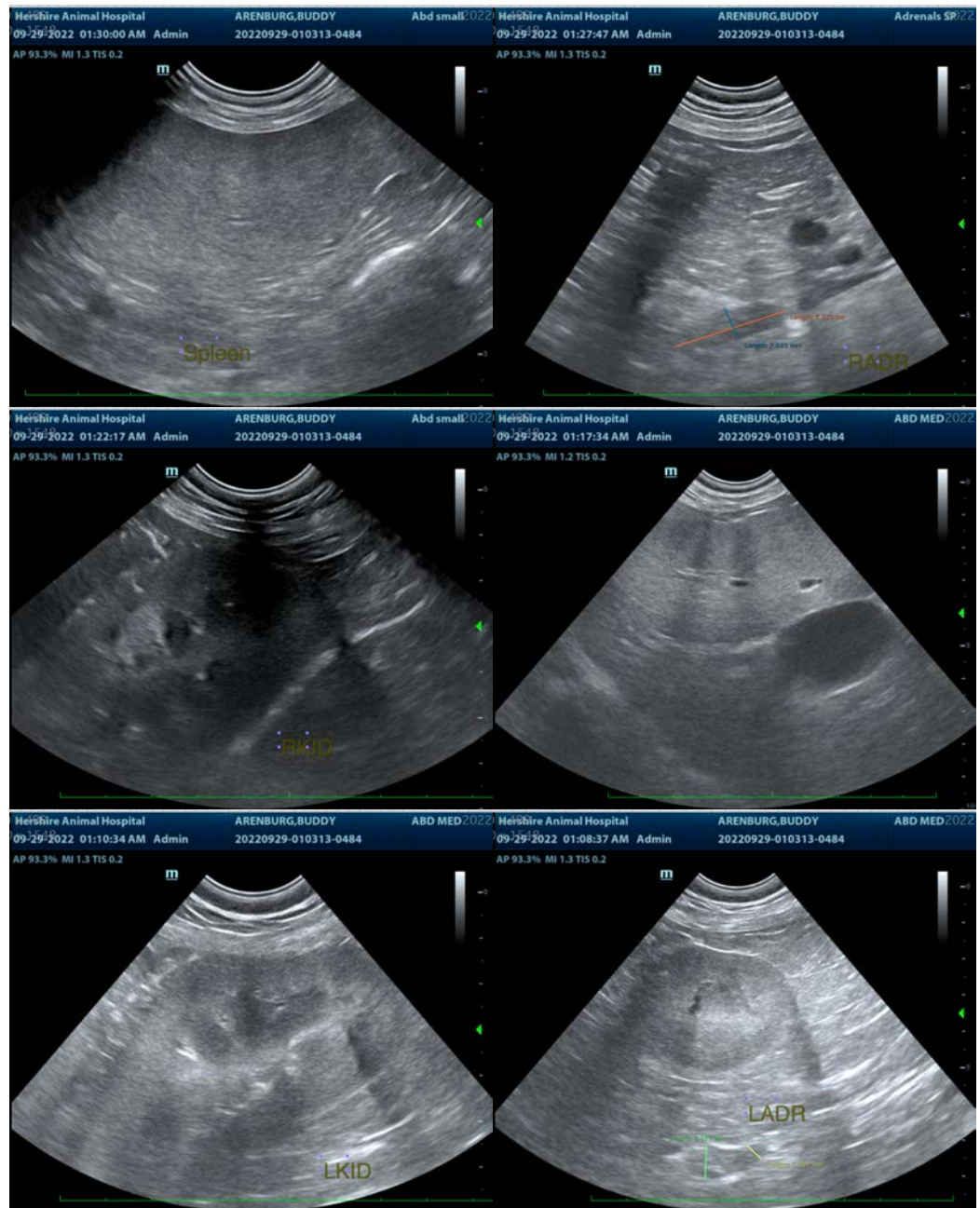
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Beth Johnson, DVM, DACVIM

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