



PATIENT PRESENTING CLINICAL SIGNS

Rylee Cox P is PU/PD, pot bellied and pants continuously. She had hypercalcemia on her lab work. There is a concern for a mass in the cranial abdomen on radiographs.

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Canine **Urinary System**

BREED 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.

German Shepherd

SEX The right kidney is normal in size (8.1 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia, mineral or infarcts observed.

Female

The left kidney is normal in size (6.7 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia, mineral or infarcts observed.

AGE

11 Years 8 Months

Adrenal Glands

Adrenal glands are plump/swollen in size. Normal shape and contour are maintained without evidence of capsular invasion. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal. The left adrenal gland measured 0.99 cm thick. The right adrenal gland measured 2.0 cm at the cranial pole and 1.0 cm at the caudal pole.

WEIGHT

88 Pounds

Spleen

The 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). No focal nodules or masses are observed. Splenic vasculature appears normal.

INTERPRETED BY

Beth Johnson, DVM
DACVIM

Liver

The liver is subjectively normal in size with normal smooth curvilinear peripheral contour. Parenchyma is appropriately hypoechoic to the spleen in echogenicity and appropriately mildly coarse and homogenous in echotexture. No focal lesions are observed. Visible vasculature and biliary tree appear normal without distension or congestion.

IMAGING PERFORMED BY

HOSPITAL NAME

All Creatures AH
of South Hill

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. Hart

Gastrointestinal

The visible stomach wall is normal in thickness and layering. The lumen of the stomach is mildly distended with very echogenic reverberation artifact from intraluminal gas. There is no evidence of obstruction, foreign material or infiltrative disease; however, complete visualization of far wall is partially inhibited by gas. Pyloric outflow tract appears patent.

INVOICE

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The visible small intestines are normal in wall thickness and layering. Small intestinal motility appears adequate (1-3 contractions per min). The lumen of the small intestine is mildly distended with echogenic non-shadowing luminal contents and gas consistent with normal ingesta. There is no evidence of obstruction, foreign material or infiltrative disease.

DATE

8/15/22



PATIENT	The visible colon is normal in wall thickness (< 0.2 cm) and layering. Contents are consistent with normal formed feces and gas.
Rylee Cox	
	Pancreas
SPECIES	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.
Canine	
	Free Abdomen
BREED	There is no evidence of free peritoneal effusion noted in these images.
German Shepherd	There is no apparent lymphadenopathy noted in these images.
	PRIMARY FINDINGS
SEX	<ul style="list-style-type: none"> Bilateral adrenomegaly – consistent with adrenal hyperplasia secondary to pituitary dependent hyperadrenocorticism vs stress or normal variant. Interpret in combination with clinical signs of hyperadrenocorticism.
Female	
	<ul style="list-style-type: none"> The gastrointestinal tract appears to contain subjectively excess gas, consistent with this patient’s reported panting.
AGE	
11 Years 8 Months	
	ULTRASONOGRAPHIC FINDINGS
WEIGHT	<ul style="list-style-type: none"> 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.
88 Pounds	
INTERPRETED BY	INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS
Beth Johnson, DVM DACVIM	There is no evidence of a cranial abdominal mass present in these images.
	Given this patient’s reported hypercalcemia, further investigation of the hypercalcemia is recommended in the form of a malignancy panel to include PTH, PTHrP, and ionized calcium.
IMAGING PERFORMED BY	If not already evaluated, a thorough physical exam, paying special attention to lymph nodes as well as a rectal exam is recommended, given the reported hypercalcemia.
HOSPITAL NAME	Hypercalcemia can result in polyuria/polydipsia. However, given the concurrently reported panting, and potbelly, combined with the bilateral adrenomegaly, hyperadrenocorticism is also possible. Pending the result of the hypercalcemia workup, further testing for hyperadrenocorticism could be considered in the form of a low-dose Dexamethasone suppression test.
All Creatures AH of South Hill	Also recommended due to the suspicion for possible hyperadrenocorticism, is a urinalysis and, if indicated based on urinalysis results, urine culture. If protein is present in an otherwise quiet sediment, protein quantification with a urine protein to creatinine ration is recommended.
REFERRING VET	
Dr. Hart	A blood pressure is recommended if not recently evaluated.
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PATIENT

Rylee Cox

SPECIES

Canine

BREED

German Shepherd

SEX

Female

AGE

11 Years 8 Months

WEIGHT

88 Pounds

INTERPRETED BY

Beth Johnson, DVM
DACVIM

IMAGING PERFORMED BY

HOSPITAL NAME

All Creatures AH
of South Hill

REFERRING VET

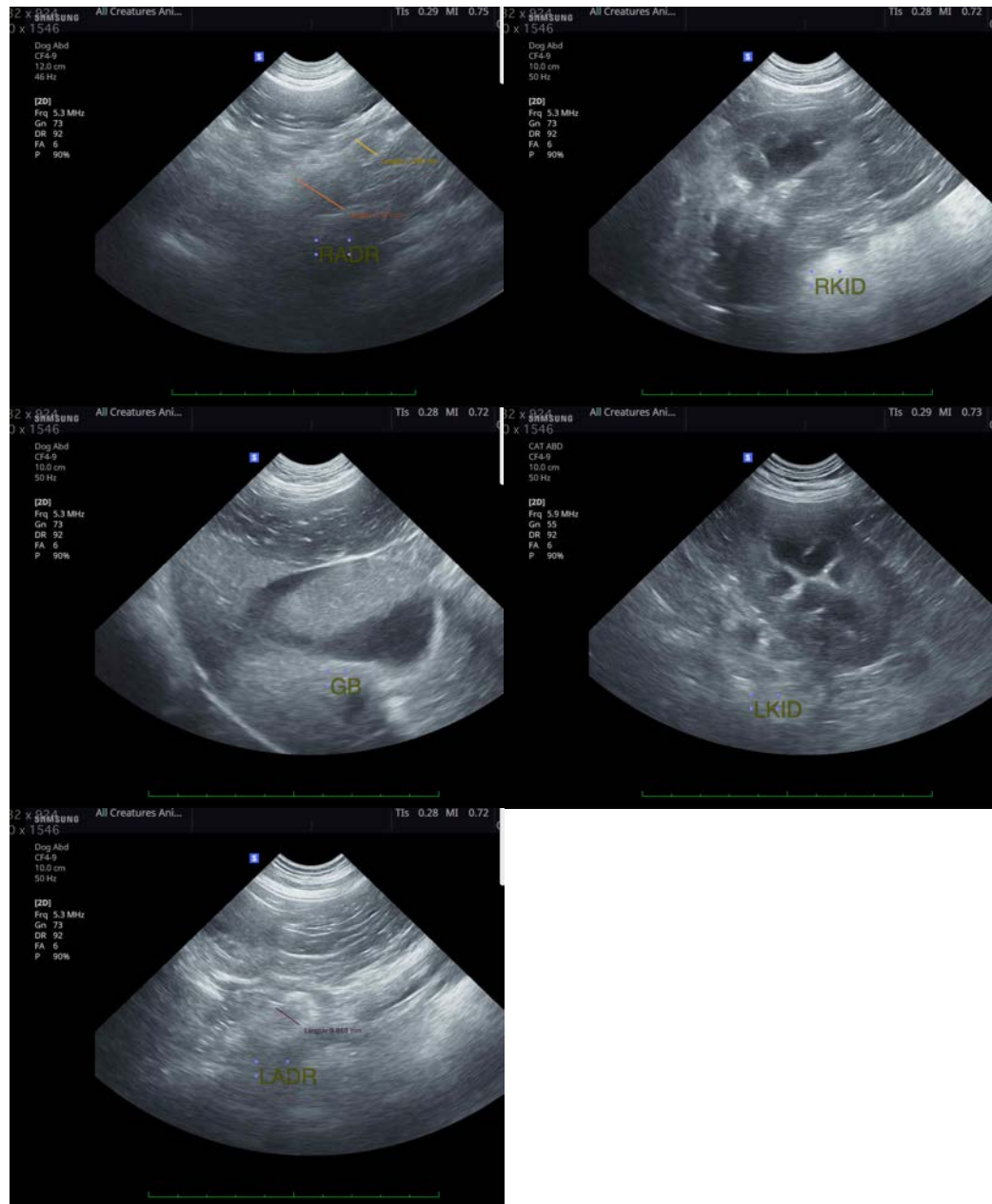
Dr. Hart

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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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