



**PATIENT PRESENTING CLINICAL SIGNS**

Lulu Reed The pet does have off and on diarrhea. PU/PD. Pot belly appearance. DEX suppression was inconclusive  
The primary goal for this abdominal ultrasound is to evaluate the liver and the adrenal glands

**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.

Hound X

**SEX** The right kidney is normal in size (7.09 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.

Spayed Female

**AGE** The left kidney is normal in size (6.23 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.

10 Years

**WEIGHT Adrenal Glands**

53 Pounds 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 0.91 cm at the cranial pole and 0.84 cm at the caudal pole. The right adrenal gland measured 1.3 cm at the cranial pole and 1.0 cm at the caudal pole.

**INTERPRETED BY**

Beth Johnson, DVM  
DACVIM

**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.

**IMAGING PERFORMED BY**

Jenna Walsh, CVT

**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.

**HOSPITAL NAME**

Vetco Total Care

The gallbladder is non-distended in size. The wall is smooth without visible thickening. Luminal contents are primarily anechoic. There is no evidence of cystic or common bile duct dilation.

**REFERRING VET**

Dr. DeMarco

**Gastrointestinal**

**INVOICE** The visible stomach wall is normal in thickness and layering. The lumen of the stomach 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. Pyloric outflow tract appears patent.

43893

**DATE** 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

7/11/23



**PATIENT** non-shadowing luminal contents and gas consistent with normal ingesta. There is no evidence of obstruction, foreign material or infiltrative disease.

Lulu Reed

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

Canine

***Pancreas***

**BREED**

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.

Hound X

**SEX**

***Free Abdomen***

Spayed Female

There is no evidence of free peritoneal effusion noted in these images.

There is no apparent lymphadenopathy noted in these images.

**AGE**

10 Years

**ULTRASONOGRAPHIC FINDINGS**

**WEIGHT**

53 Pounds

- Bilateral adrenomegaly – consistent with adrenal hyperplasia secondary to pituitary dependent hyperadrenocorticism vs stress or normal variant. Interpret in combination with clinical signs of hyperadrenocorticism.

**INTERPRETED BY**

- The appearance of the GI tract is most consistent with a post-prandial study and ingesta throughout the bowel. Having said that, there is some progressive shadowing in the stomach, which makes foreign material such as a hairball not suspected but unable to be definitively ruled out.

Beth Johnson, DVM  
DACVIM

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**IMAGING PERFORMED BY**

Given this patient's adrenomegaly and historical PU/PD, pot belly, etc., hyperadrenocorticism is a differential and is likely pituitary in nature if diagnosed. An "inconclusive" low-dose Dexamethasone suppression test was reportedly evaluated, and I'm unsure whether the result was inconclusive in diagnosing hyperadrenocorticism or was diagnostic for hyperadrenocorticism but was inconclusive as to whether this patient has adrenal versus pituitary, so further recommendations are dependent on that piece of information.

Jenna Walsh, CVT

**HOSPITAL NAME**

In the meantime, given the suspicion for possible hyperadrenocorticism, if not recently evaluated, a urinalysis and, if indicated based on urinalysis results, urine culture are recommended. If protein is present in an otherwise quiet sediment, protein quantification with a urine protein to creatinine ratio is recommended.

Vetco Total Care

**REFERRING VET**

A blood pressure is also recommended.

Dr. DeMarco

**INVOICE**

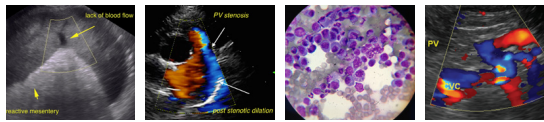
Given this patient's diarrhea, however, additional recommendations include (if not recently evaluated) a general metabolic evaluation (CBC, chemistry panel with electrolytes, urinalysis (also recommended above), and fecal exam, followed by:

43893

**DATE**

A gastrointestinal malabsorption panel (including cobalamin, folate, TLI and PLI) to Texas A&M GI Laboratory is recommended for further evaluation of GI and pancreatic function.

7/11/23



**PATIENT**

A baseline cortisol is recommended. If baseline cortisol is less than 2, a full ACTH stimulation test is recommended to rule out hypoadrenocorticism.

Lulu Reed

**SPECIES**

A fecal enteropathogen PCR panel to Texas A&M GI Laboratory could be considered for further evaluation of possible infectious disease.

Canine

**BREED**

In the meantime, supportive/symptomatic medical management of clinical signs is recommended, including a probiotic (such as visbiome or proviable), empirical deworming with a 5-day course of Panacur and, if tolerated, a transition in diet, based on trial-and-error response, beginning with a hydrolyzed protein diet. Some patients respond to one brand/version of a hydrolyzed protein diet better than another brand, so several attempts may be required.

Hound X

**SEX**

Ultimately, if clinical signs persist, and a diagnosis is not reached, further evaluation of the GI tract via upper and lower endoscopy for visualization and biopsies may be warranted.

Spayed Female

**AGE**

10 Years

**WEIGHT**

53 Pounds

**INTERPRETED BY**

Beth Johnson, DVM  
DACVIM

**IMAGING PERFORMED BY**

Jenna Walsh, CVT

**HOSPITAL NAME**

Vetco Total Care

**REFERRING VET**

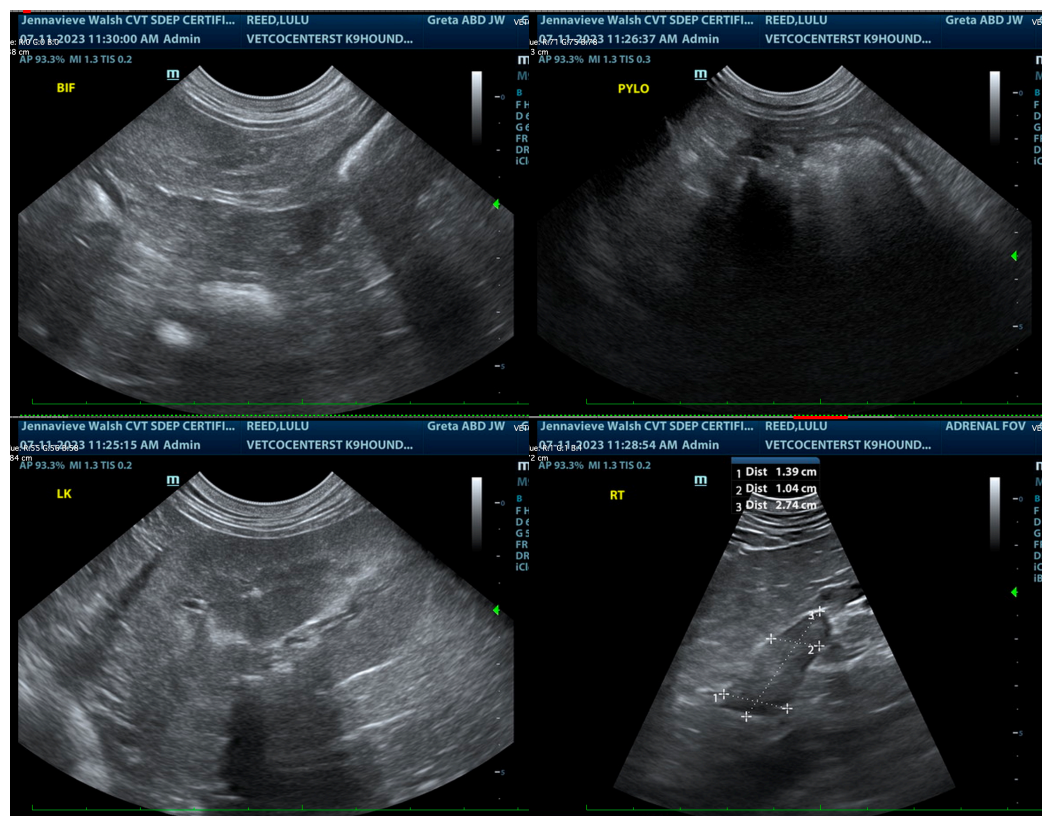
Dr. DeMarco

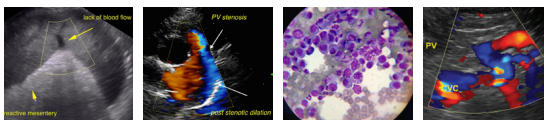
**INVOICE**

43893

**DATE**

7/11/23





**PATIENT**

Lulu Reed

**SPECIES**

Canine

**BREED**

Hound X

**SEX**

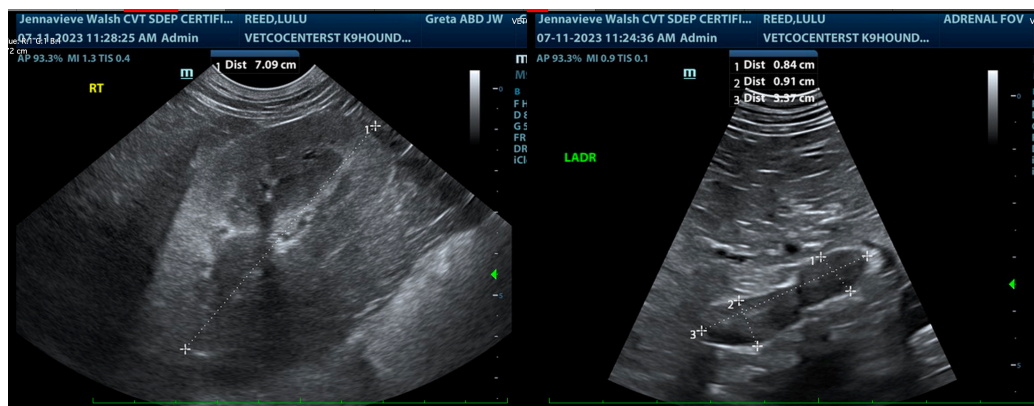
Spayed Female

**AGE**

10 Years

**WEIGHT**

53 Pounds



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**  
info@sonopath.com

**INTERPRETED BY**

Beth Johnson, DVM  
DACVIM

**IMAGING PERFORMED BY**

Jenna Walsh, CVT

**HOSPITAL NAME**

Vetco Total Care

**REFERRING VET**

Dr. DeMarco

**INVOICE**

43893

**DATE**

7/11/23