

**DATE PRESENTING CLINICAL SIGNS**

1/25/22

History: Came in for spay in August elevated ALT, started on Denamarin. Went into heat, so returned today for spay, Alt and ALP higher than in August.

**PATIENT**

Roxy Stafford

Lab Results: ALP-257, ALT - 568, awaiting bile acids and clotting profile.  
Date of Previous IntraPet Ultrasound: No previous IntraPet scans.  
Sedation: Not required to complete full diagnostic ultrasound.

**SPECIES**

Canine

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN****Urinary System****BREED**

Doberman X

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The ureters were not visible which is normal. No uroliths or sediment were visualized and anechoic urine was present. No evidence of inflammatory or neoplastic changes were noted. Ureteral papillae were normal.

**SEX**

Intact Female

The **kidneys** revealed normal size and structure, corticomedullary definition and ratio for this age. The cortices presented largely uniform texture with normal echogenic relationship to liver and spleen. Medullary structure differed distinctly from the cortex and no evidence of pelvic dilation was present. The capsules were acceptably uniform without significant irregularities. The right kidney measured 7.05 cm.

**AGE**

11/4/18

**Adrenal Glands****WEIGHT**

63.4 Pounds

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 right adrenal gland measured 2.95 cm x 0.60 cm at the caudal pole and 0.55 cm at the cranial pole. The left adrenal gland measured 2.52 cm x 0.53 cm at the caudal pole and 0.54 cm at the cranial pole.

**INTERPRETED BY**Eric Lindquist, DMV  
DABVP, Cert. IVUSS**Spleen****IMAGING PERFORMED BY**

Rachel Brilhart RDMS

The **spleen** presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. 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.

**HOSPITAL NAME**

Aberdeen Vet Clinic

**Liver****REFERRING VET**

Dr. Fritz

The **liver** images submitted revealed subjectively normal liver size, contour, and structure. Parenchymal echogenicity was naturally coarse and hypoechoic to the spleen. Vascular and biliary tracts were of normal volume with no evidence of congestion. The gallbladder presented acceptably thin walls with primarily anechoic content. The cystic and common bile ducts were normal. No pathological hepatic lymphadenopathy was evident. No overt structural evidence of inflammatory, infiltrative or regenerative pathology was evident.

**INVOICE**

35067

**Gastrointestinal**

Examination of the **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. 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.

## Pancreas

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

The right ovary was uniform, measuring 2.26 cm x 1.25 cm. The left ovary presented minor follicles and measured 1.52 cm x 1.24 cm.

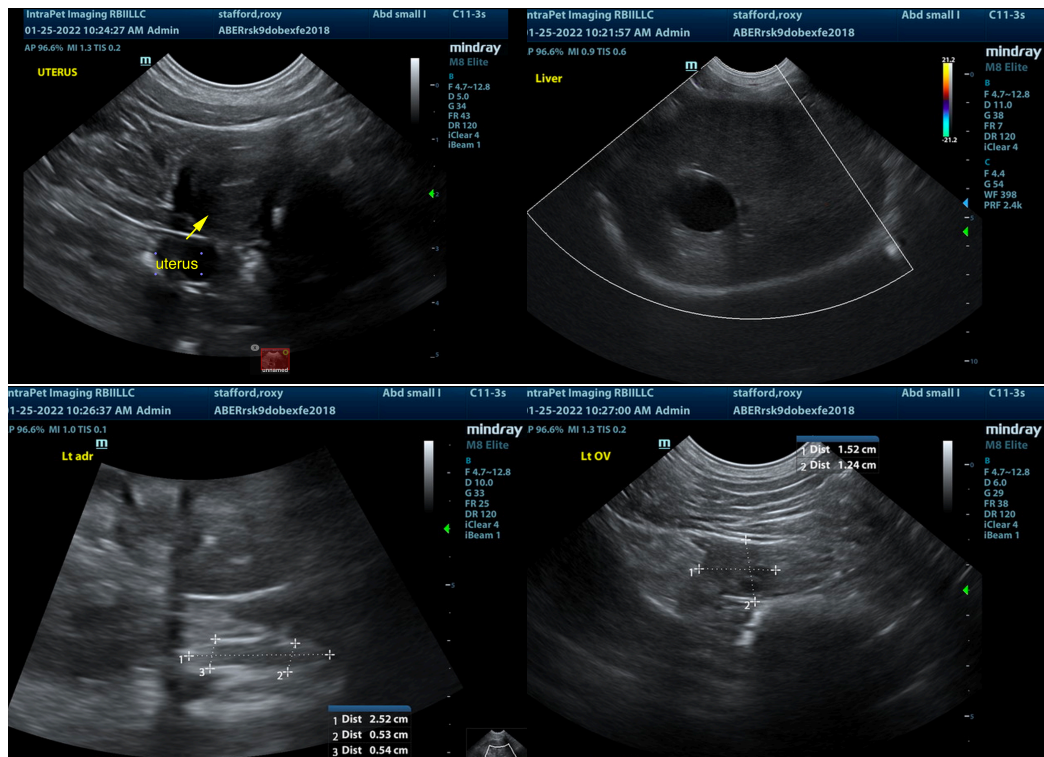
The uterus was excessively thickened at 1.5-2.0 cm in width. No luminal fluid noted.

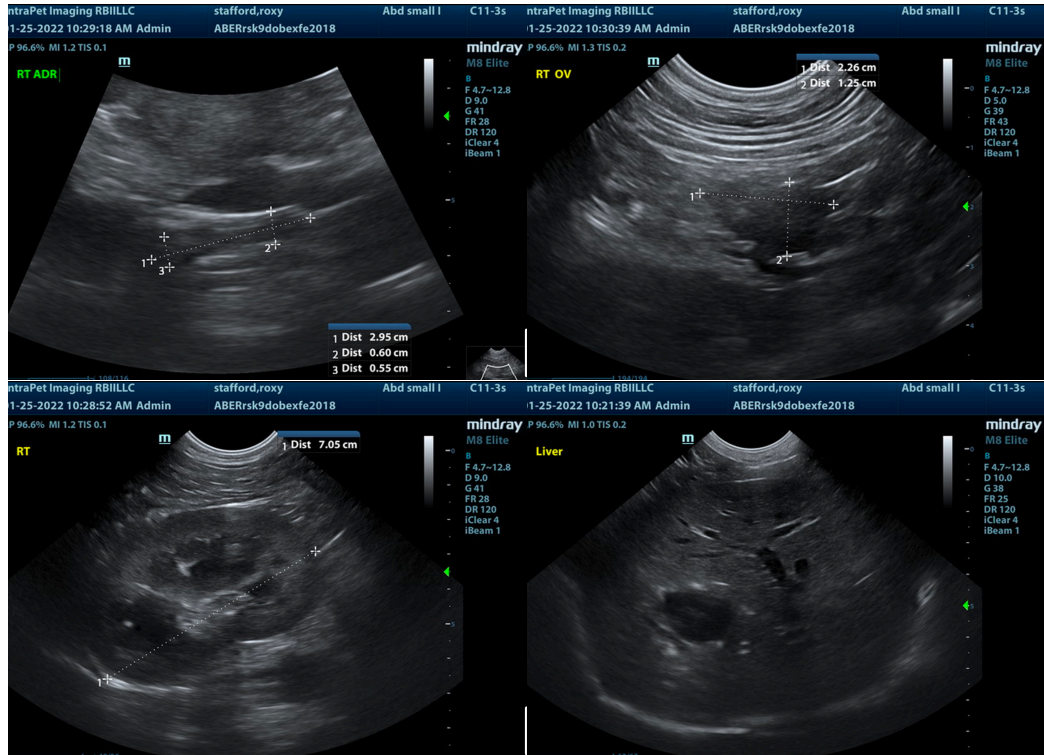
## ULTRASONOGRAPHIC FINDINGS

- Structurally unremarkable abdomen and structurally normal liver

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Likely non-specific reactive hepatopathy. Ovariohysterectomy and liver biopsy warranted given the convenience of the procedure. Bile acid profile could be considered for extra security measure. Assessment for vaginal discharge warranted.





The information and recommendations provided are based on the images presented by the referring veterinarian. 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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