



**PATIENT PRESENTING CLINICAL SIGNS**

Dakota Strifler

History: Acute onset of vestibular signs 5 days ago, concurrent vomiting, anorexia. Has been on Gabapentin, Cerenia, B12, Pantoprazole. Recommended to rule out any underlying disease or neoplasia.

**SPECIES**

Canine

Abnormal PE/Chem/CBC/UA Results: Mild lymphopenia, moderate hypophosphatemia, mild elevated ALT Rads showed mild dilation of caudal vena cava likely due to phase of respiration or cardiac cycle. Otherwise, unremarkable.

**BREED**

Shep X

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

**SEX**

Spayed Female

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. The pelvic urethra was imaged 2.0 cm beyond the cystourethral junction.

**AGE**

13 Years

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some mild to moderate age-related loss of curvilinear patterns regarding the capsule and C/M junction. The cortices presented largely uniform texture with some increased echogenicity expected for his age patient. Medullary structure differed distinctly from that of the cortex and no evidence of pelvic dilation was present. The left kidney measured 5.6 cm. The right kidney measured 7.04 cm. Blood flow to the kidneys appeared to be adequate.

**WEIGHT**

30.5 kg

**Adrenal Glands**

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

The **right adrenal gland** was 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 2.14 cm x 1.21 cm at the cranial pole and 0.84 cm at the caudal pole.

**IMAGING PERFORMED BY**

Crystal Hill

The **left adrenal gland** was mildly enlarged, measuring 1.5 cm at the caudal pole and 1.6 cm at the cranial pole. The left adrenal gland revealed a peripheral inflammatory response.

**HOSPITAL NAME**

**Spleen**

Hamilton Regional VEC

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.

**REFERRING VET**

Dr. Vercaigne

**Liver**

**INVOICE**

21822

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.

**DATE**

4/3/23



**PATIENT**

**Gastrointestinal**

Dakota Strifler

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.

**SPECIES**

Canine

**Pancreas**

**BREED**

Shep X

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.

**SEX**

Spayed Female

**ULTRASONOGRAPHIC FINDINGS**

- Enlarged irregular left adrenal gland with pericapsular inflammatory pattern
- Age-related renal changes

**AGE**

13 Years

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

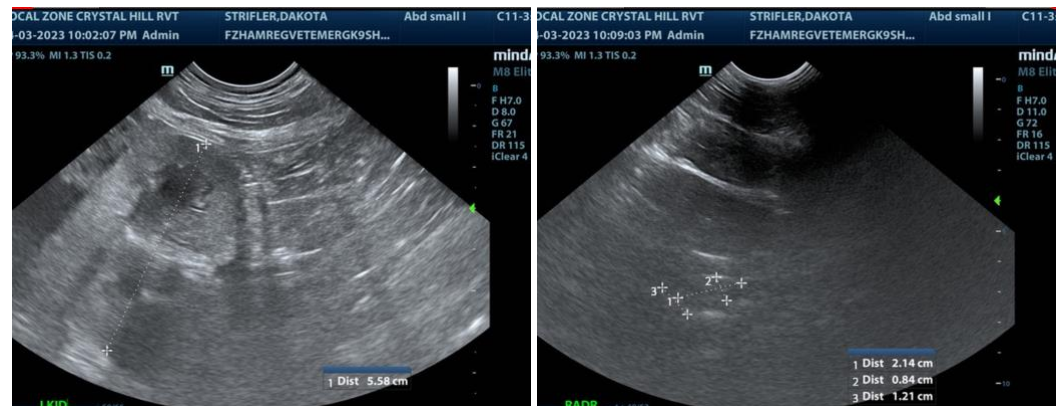
Resolution was poor of the left adrenal, owing to the regional inflammatory event. CT evaluation of the left adrenal gland, skull and cervical spine are all indicated given the patient history. Blood pressure measurements are warranted. If hypertension is an issue, then urine catecholamine is indicated to assess for pheochromocytoma. Left adrenal differentials include pheochromocytoma, adenocarcinoma, hyperplasia or adenitis. I cannot rule out an early caval invasion in this patient. CT would rule this out, or further ultrasound imaging under full sedation may allow for deeper acoustic penetration. The remainder of the abdomen was unremarkable and the changes are expected for this age patient.

**WEIGHT**

30.5 kg

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS



**IMAGING PERFORMED BY**

Crystal Hill

**HOSPITAL NAME**

Hamilton Regional VEC

**REFERRING VET**

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**DATE**

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**PATIENT**

Dakota Strifler

**SPECIES**

Canine

**BREED**

Shep X

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Spayed Female

**AGE**

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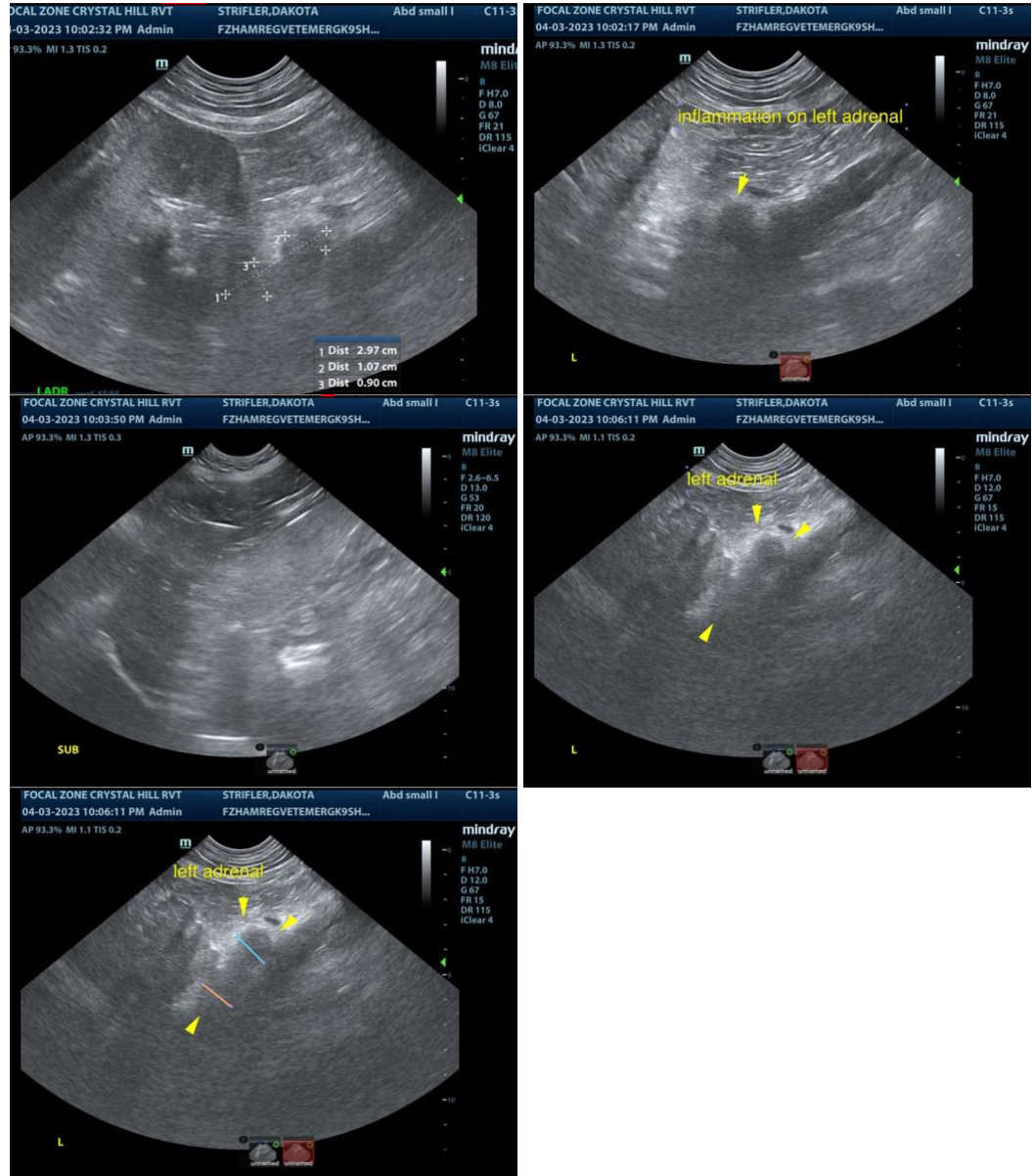
Dr. Vercaigne

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**DATE**

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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.

**Eric Lindquist**, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com  
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