



**PATIENT PRESENTING CLINICAL SIGNS**

**Nala Engel** Patient presented to pDVM on 8/18 for acute onset of lethargy and anorexia. FAST scan revealed abdominal effusion. A sample of the fluid was obtained and revealed TMTC PMNs and RBCs with no bacteria seen.

**SPECIES**

Canine

Abnormal PE/Chem/CBC/UA Results: Febrile 103.4 Hemorrhagic vulvar discharge Mild lymphopenia 0.54k, hypoglobulinemia 2.1

**BREED**

Shepherd X

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**Urinary System**

The **urinary bladder** was overdistended at the time of the sonogram, unremarkable otherwise.

**SEX**

Spayed 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 7.1 cm. The left kidney measured 6.5 cm.

**AGE**

1 Year

**Adrenal Glands**

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 0.66 cm at the cranial pole and 0.55 cm at the caudal pole. The left adrenal gland measured 0.56 cm at the caudal pole and 0.48 cm at the cranial pole.

**WEIGHT**

61 Pounds

**INTERPRETED BY**

Eric Lindquist, DMV

DABVP, Cert. IVUSS

**Spleen**

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.

**IMAGING PERFORMED BY**

Tom McNeill

**Liver**

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.

**HOSPITAL NAME**

SVS Imaging CT

**REFERRING VET**

WVRC - Dr. Jochman

**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.

**INVOICE**

40622

**DATE**

8/19/22



**PATIENT**

**Pancreas**

Nala Engel

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.

**SPECIES**

Canine

**Free Abdomen**

The uterine stump was thickened with periserosal inflammatory pattern, measuring up to 1.3 cm in width. Slight luminal fluid noted and reactive mesentery around the uterine stump, likely the source of the free fluid.

**BREED**

Shepherd X

The right ovary revealed a remnant measuring 2.3 cm x 1.16 cm with microcystic changes, encapsulated, appears resectable.

**SEX**

Mesenteric and variable lymph nodes were reactive up to 2.0 cm x 0.5 cm.

Spayed Female

**ULTRASONOGRAPHIC FINDINGS**

**AGE**

1 Year

- Right ovarian remnant with thickened uterine stump – Heat stump or stump pyometra with regional inflammation.
- Reactive mesenteric lymphadenopathy

**WEIGHT**

61 Pounds

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Exploratory surgery indicated with resection of the uterine stump to the level of the cervix and removal of the right ovarian remnant. Mesenteric lymph node biopsy could be considered as well, yet likely reactive.

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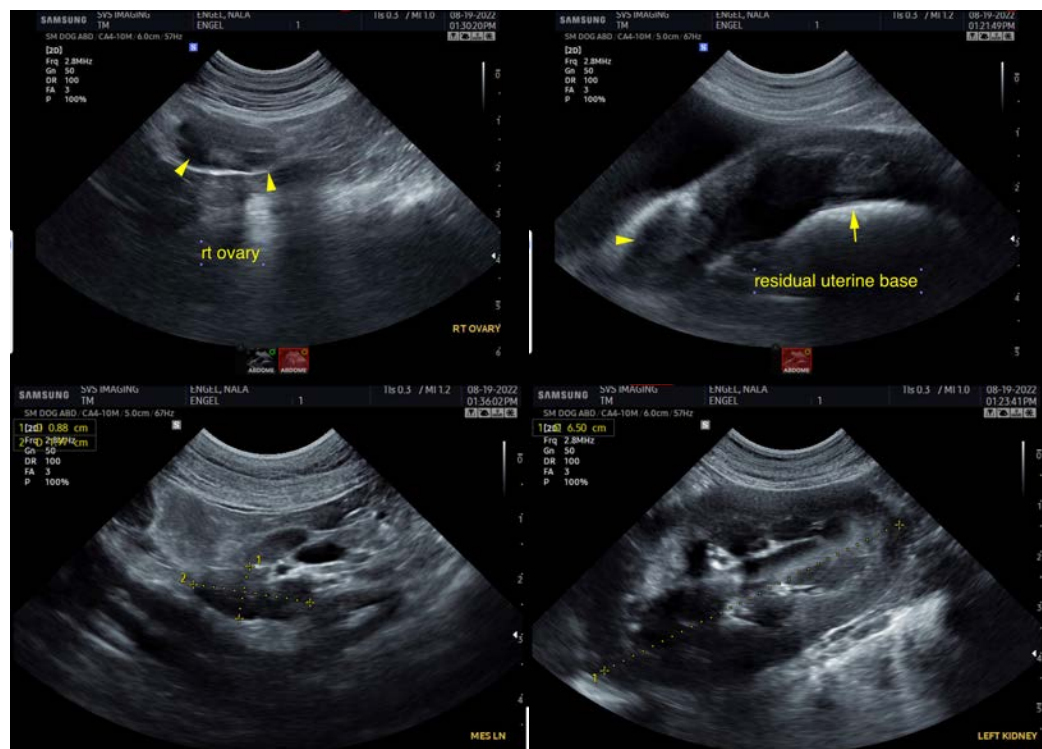
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**PATIENT**

Nala Engel

**SPECIES**

Canine

**BREED**

Shepherd X

**SEX**

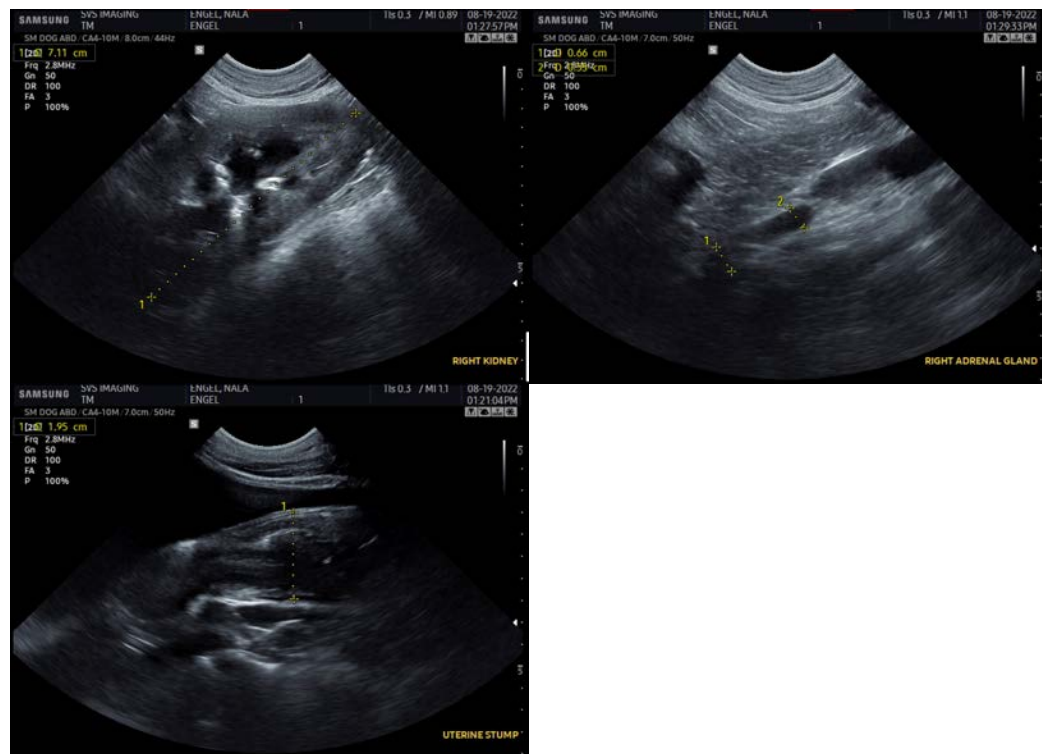
Spayed Female

**AGE**

1 Year

**WEIGHT**

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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.

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