



PATIENT

Sadie Geist

SPECIES

Canine

BREED

Mixed Terrier

SEX

Spayed Female

AGE

13 Years 6 Months

WEIGHT

54.1

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Jessica Green

HOSPITAL NAME

Stanglein VC

REFERRING VET

Dr. Daniel Hoffman

INVOICE

22447

DATE

5/10/23

PRESENTING CLINICAL SIGNS

History of mildly to moderately elevated ALKP and multiple subcutaneous masses; the patient presented to a local emergency clinic for coughing (which has since resolved), but on work-up the emergency clinician performed AFAST exam and remarked that the spleen "was significantly heterogeneous to mottled and irregular with diffuse hypoechoic nodules and a lobulated surface"-- this patient did have a previous SonoPath AUS 7/6/2022 which was consistent with "age related splenic changes with lipogranulomatous splenic nodules" (the patient also had a suspected benign hepatopathy and is on Denamarin and ursodiol inconsistently); an AUS is being repeated for monitoring purposes and to make sure all lesions still seem benign.... Meds: Carprofen PRN, Gabapentin, Denarmin Advanced (inconsistently), Ursodiol.

Abnormal PE/Chem/CBC/UA Results: no BW recently performed, but ALKP=346 on 10/8/22, increased to 503 1/11/23, BW otherwise unremarkable aside from mild hypercholesterolemia. CXR performed at local emergency clinic revealed a mild bronchointerstitial pulmonary pattern, consistent with age related changes and mild chronic lower airway disease, but a metastatic/nodular pattern was not observed.

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

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.

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some minor 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. Slight pyelectasia was noted in the left kidney with echogenic debris. The left kidney measured 6.5 cm. The right kidney measured 7.0 cm.

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 left adrenal gland measured 2.21 cm x 0.75 cm. The right adrenal gland measured 1.83 cm x 0.6 cm.

Spleen

The **spleen** revealed swollen irregular contour and generalized enlargement. Multifocal hyper- and hypoechoic nodular changes were noted. A 4.0 cm mass was noted in the caudal pole of the spleen, consistent with stromal tumor or lipogranulomatous type change.

Liver

The **liver** images from right and left intercostal as well as subcostal views revealed subjectively normal liver size, contour, and structure. Some age-related parenchymal remodeling was noted but likely not



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clinically significant at this time. Vascular and biliary tracts were of normal volume and no evidence of congestion was noted. The gallbladder presented some dependent debris with essentially normal contour. The cystic and common bile ducts were normal. No overt evidence of active inflammatory, infiltrative or regenerative pathology was noted but should be paired with current or past LE elevations regarding any clinical significance to this presentation. The hepatic lymph nodes were unremarkable.

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

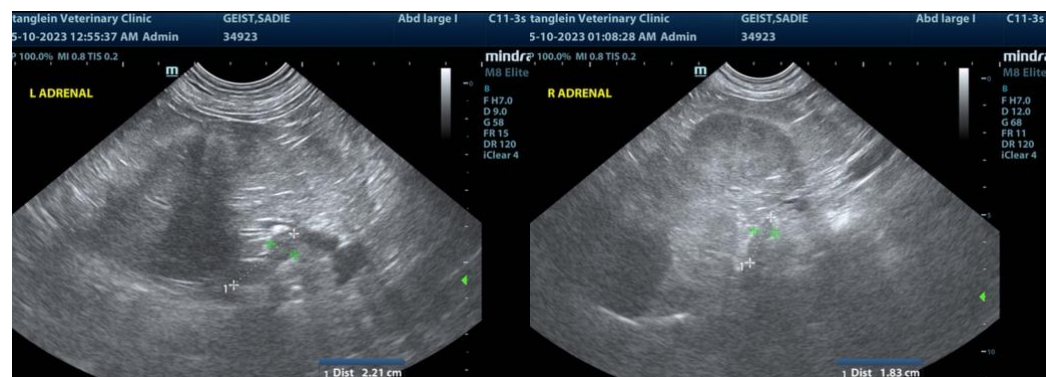
A large amount of **abdominal fat** was noted in this patient.

ULTRASONOGRAPHIC FINDINGS

- Lipomatous type diffuse splenic nodular pattern, likely benign or stromal tumor development with an overt 4.0 cm mass at the caudal pole.
- Age-related renal changes with left kidney pyelectasia
- Age-related hepatic changes

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

I recommend proactive splenectomy in this patient. No evidence of cavitation. The possibility of hemangiosarcoma is essentially null. Urinary work up is warranted if not already performed given the renal pyelectasia. Chest radiographs are recommended to assess for metastatic disease.





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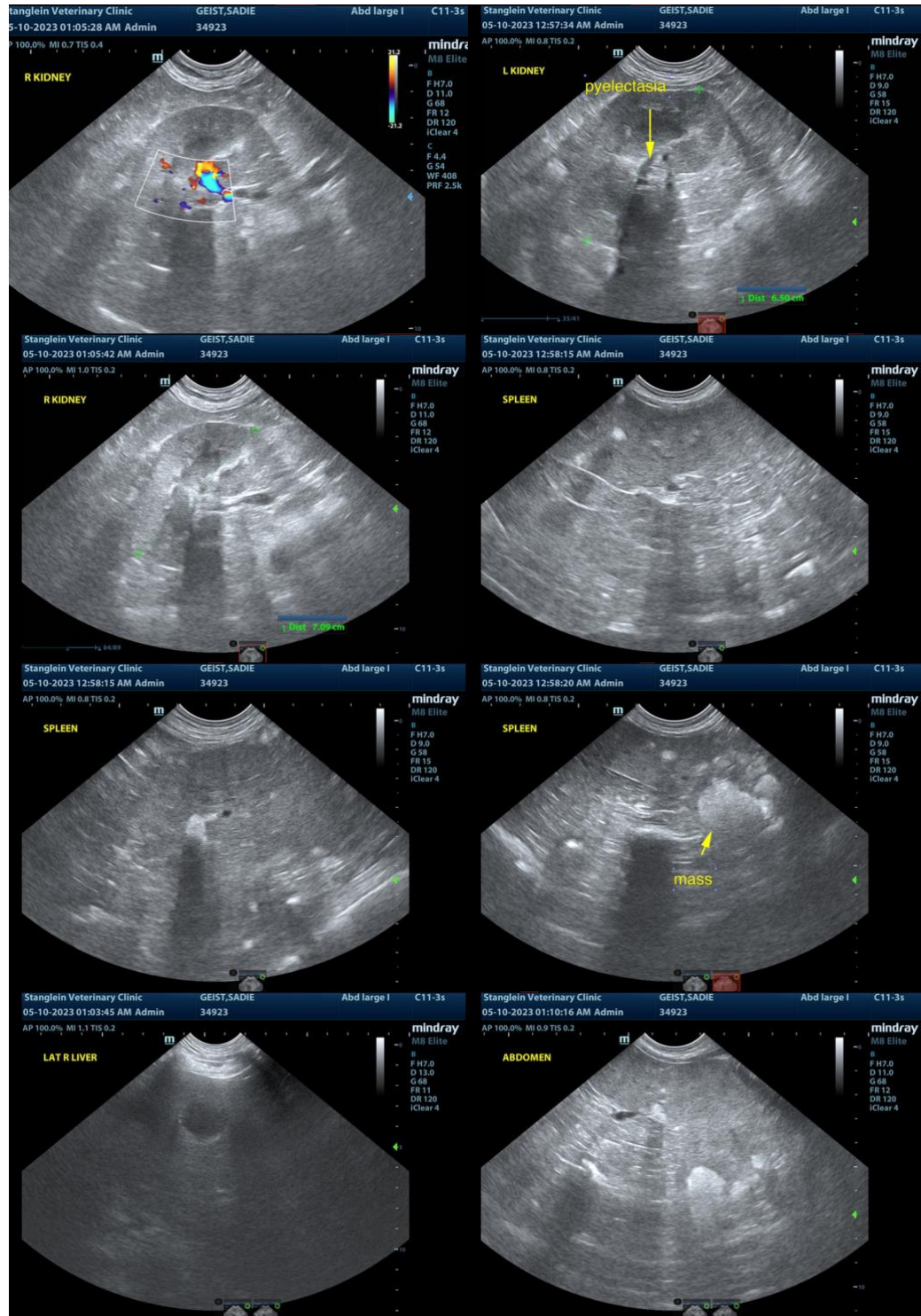
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I



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can be of any further assistance please contact me.

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