



PATIENT PRESENTING CLINICAL SIGNS

Sage Waites

On Monday Stacey noticed that Sage feels like she is losing weight. Stacey noticed her spine sticking up. Sage is normally the top dog but for the past week or so she has not been fighting for her food as much and she has not gotten as excited for treats either. Sometimes when Sage drinks she will cough and hack up some clear mucous liquid afterwards. She has also been more cuddly and wanting to be held more. Sage did have a slight heart murmur at one point.

SPECIES

Canine

Abnormal PE/Chem/CBC/UA Results: PE: MILD DISTENSION CARDIAC MURMUR, GRADE IV/VI HOLOSYSTOLIC PMI LEFT HEART BASE. 190 BPM TACHYCARDIA. LENS SCLEROSIS NORMAL FOR AGE RIGHT EYE WITH MILD DISCHARGE MODERATE anal gland enlargement. NAILS LONG GENERALIZED MUSCLE ATROPHY NO RECENT LABS

BREED

Chihuahua

SEX

Spayed Female

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder is well distended with anechoic contents. The wall is mildly thickened and irregular. A possible polyp or mass is observed along the dorsal wall. It measures 4.2 mm in diameter and 4.9 mm in length. Another possible polyp is noted on the ventral wall, a few centimeters proximal to the trigone. It measures 6.9 mm in diameter and 7.10 mm in length. No obvious abnormalities are noted with the trigone, however, complete evaluation was not possible due to gas and fecal matter in the surrounding colon and interference from the pelvis. There is no evidence of a cystolith.

AGE

11 years

WEIGHT

7.44 lbs

Kidneys

The **left** kidney measures 3.32 cm. The capsule is smooth, however, the cortex is mildly hyperechoic. A thick hyperechoic band is observed along the medulla, traversing parallel to the corticomedullary junction, which accentuates the definition of the cortico-medullary junction. There is no evidence of nephroliths or pyelectasia. It is not possible to evaluate the echogenicity of the surrounding mesentery due to the presence of the large amount of abdominal effusion.

INTERPRETED BY

Lisa Carioto, DVM, DVSc, Diplomate ACVIM

The **right** kidney: Findings are similar to the left kidney.

IMAGING PERFORMED BY

Carissa Rhoades

Aortic bifurcation/trifurcation

HOSPITAL NAME

Elizabeth AH

No abnormalities observed.

Adrenal Glands

REFERRING VET

Dr. Anderson

The **left** adrenal gland measures 0.40 cm in diameter and 1.30 cm in length. No abnormalities are noted with the gland's overall architecture, echogenicity or echotexture. The phrenico-abdominal vein and surrounding vasculature and mesentery are unremarkable.

INVOICE

The **right** adrenal gland measures 0.64 cm in diameter and 1.74 cm in length. No abnormalities are noted with the gland's overall architecture, echogenicity or echotexture, however, a very small hyperechoic region, suggestive of fibrosis, fat or mineralization is noted toward the base of the gland. The phrenico-abdominal vein and surrounding vasculature and mesentery are unremarkable.

DATE

4/29/22



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| PATIENT | Spleen |
| Sage Waites | The spleen is within normal limits in size, architecture, echotexture, and echogenicity. The capsule is smooth. |
| SPECIES | |
| Canine | Liver |
| BREED | Hepatomegaly is suspected, however, it is difficult to evaluate due to the large amount of ascites present. Liver borders are smooth, but severely rounded. The liver's echotexture is homogeneous. A few hyperechoic foci are observed, which are attributed to fat, mineralization and possibly fibrosis. A hypoechoic nodule, measuring 5.2 mm x 5.4 mm, is observed in one of the liver lobes. The latter may be due to nodular hyperplasia. It is not suggestive of a target lesion. |
| Chihuahua | |
| SEX | The gallbladder wall is within normal limits in thickness and echogenicity. A very small amount of echogenic material is present within the GB. The cystic and common bile ducts are not visualized. |
| Spayed Female | |
| AGE | Gastrointestinal |
| 11 years | The muscularis of the stomach wall is thicker than usual, however, the overall gastric wall thickness is within normal limits and the wall layers are well defined. No obvious abnormalities are observed with its peristalsis. |
| WEIGHT | Subjectively, the submucosa of the small intestinal tract is more prominent than usual. Abnormally dilated loops of bowel are not observed. |
| 7.44 lbs | Soft stool is present in the colon. |
| INTERPRETED BY | The mesentery is diffusely hyperechoic, which is attributed to the severe abdominal effusion. |
| Lisa Carioto, DVM, DVSc, Diplomate ACVIM | |
| IMAGING PERFORMED BY | Pancreas |
| Carissa Rhoades | Unable to evaluate properly due to the large amount of ascites present. |
| HOSPITAL NAME | Other |
| Elizabeth AH | Lymph nodes |
| REFERRING VET | No obvious abnormalities are observed |
| Dr. Anderson | Abdominal effusion |
| INVOICE | A marked amount of anechoic fluid is present within the abdomen. free floating echogenic material is noted within the effusion, which is suggestive of proteinaceous material. |
| DATE | Heart |
| 4/29/22 | A video clip of the heart was submitted. A trivial amount of pericardial effusion is present, in addition to a very small amount of or pleural effusion. Pulmonary edema is not visualized. |



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| PATIENT | Mild to moderate myxomatous degeneration of both leaflets of the mitral valve is present, with prolapse of both leaflets. Hypoperfusion of the left side of the heart is suspected. |
| Sage Waites | Severe right sided cardiomegaly is present, including marked enlargement of the right auricle. |
| SPECIES | Moderate myxomatous degeneration of both leaflets of the tricuspid valve is present, with prolapse of both leaflets. |
| Canine | An obvious mass is not noted in any of the cardiac chambers. |
| BREED | A cause for the right sided cardiomegaly is not identified. A complete echocardiogram is recommended, however, anemia cannot be excluded. |
| Chihuahua | |
| SEX | ULTRASONOGRAPHIC FINDINGS |
| Spayed Female | <ul style="list-style-type: none"> A marked amount of anechoic fluid is present within the abdomen. Free floating echogenic material is noted within the effusion, which is suggestive of proteinaceous material. |
| AGE | <ul style="list-style-type: none"> Two possible polyps or small masses are observed in the urinary bladder, in addition to a mildly irregular wall. A urinary tract infection and polyploid cystitis are suspected, but neoplasia cannot be excluded. |
| 11 years | <ul style="list-style-type: none"> Hepatomegaly is suspected, but cannot be confirmed with the large amount of ascites present. The hypoechoic nodule observed in one of the liver lobes is suggestive of nodular hyperplasia. It is not suggestive of a target lesion. |
| WEIGHT | <ul style="list-style-type: none"> The right adrenal gland is enlarged for a dog of Sage's stature. An adenoma may be present, in addition to hyperplasia associated with chronic disease or stress. |
| 7.44 lbs | <ul style="list-style-type: none"> Mild to moderate myxomatous degeneration of both leaflets of the mitral valve is present, with prolapse of both leaflets. Hypoperfusion of the left side of the heart is suspected. |
| INTERPRETED BY | <ul style="list-style-type: none"> Severe right sided cardiomegaly is present, including marked enlargement of the right auricle. |
| Lisa Carioto, DVM, DVSc, Diplomate ACVIM | <ul style="list-style-type: none"> Moderate myxomatous degeneration of both leaflets of the tricuspid valve is present, as well as prolapse of both leaflets. |
| IMAGING PERFORMED BY | <ul style="list-style-type: none"> An obvious mass is not noted in any of the cardiac chambers. |
| Carissa Rhoades | <ul style="list-style-type: none"> A cause for the right sided cardiomegaly is not identified based on the images provided. A complete echocardiogram is recommended. Anemia may be contributing to cardiomegaly. |
| HOSPITAL NAME | |
| Elizabeth AH | |
| REFERRING VET | INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS |
| Dr. Anderson | Full blood work, including a complete blood count and blood smear, serum biochemical profile, SNAP 4Dx are recommended as soon as possible. Sage should be fasted for the blood work. |
| INVOICE | A urinalysis and urine culture and sensitivity are recommended. Urine obtained by free catch is suggested in case neoplasia is present. The vulva and perivulvar region may be disinfected with chlorhexidine 0.05% prior to collecting the sample. |
| DATE | A complete echocardiogram is required to determine the cause of right sided congestive heart failure. |
| 4/29/22 | |



PATIENT

Abdominocentesis may be considered to decrease abdominal discomfort and respiratory embarrassment.

Sage Waites

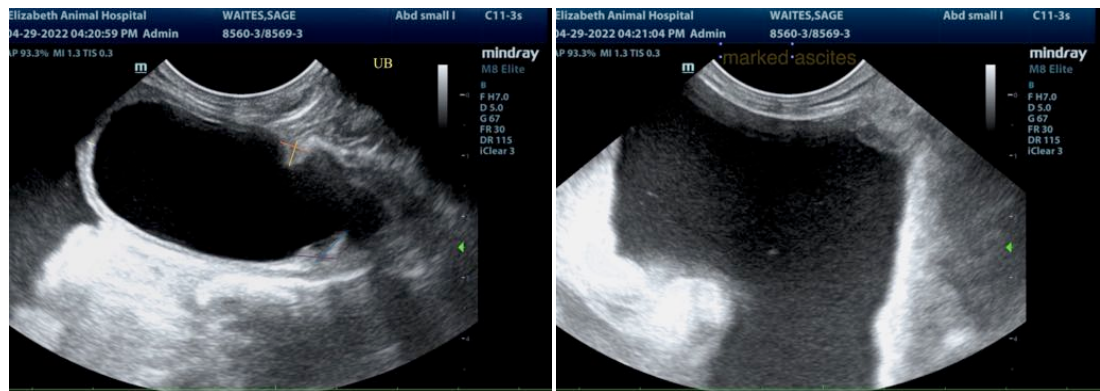
SPECIES

Lymphangiectasia may be present, however, it does not explain the right sided cardiomegaly or pericardial effusion.

Canine

Further recommendations may be made upon receiving laboratory results.

BREED



Chihuahua

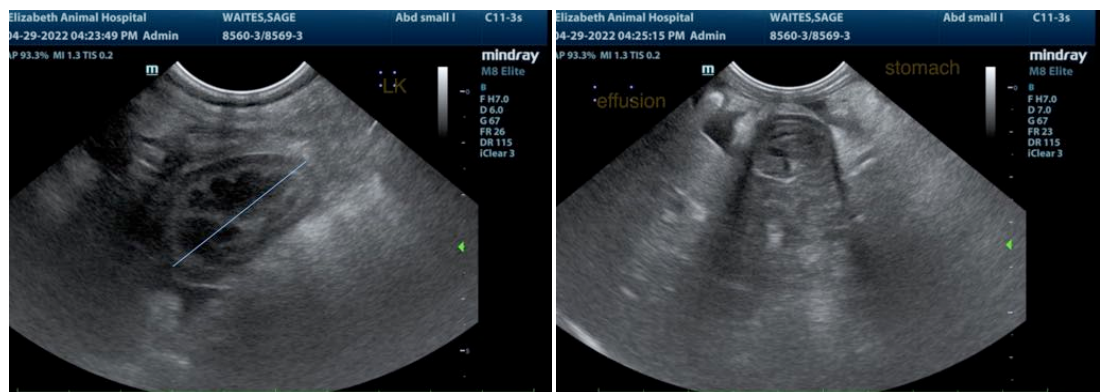
SEX

Spayed Female

AGE

11 years

WEIGHT



7.44 lbs

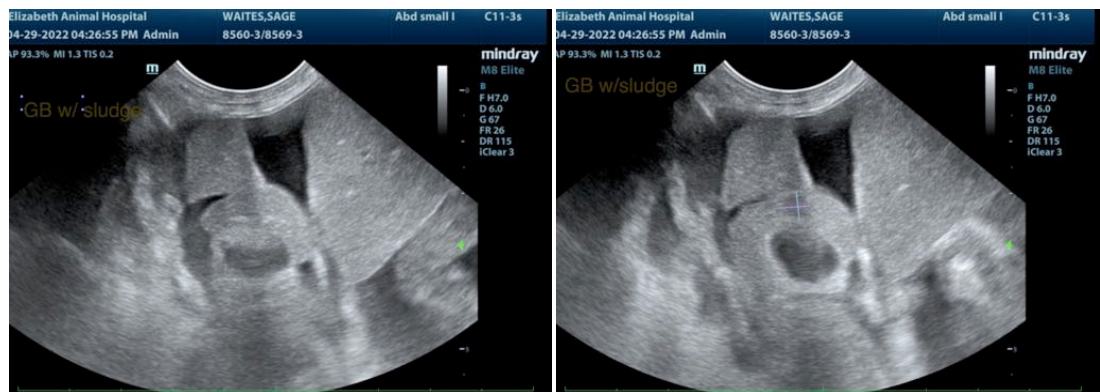
INTERPRETED BY

Lisa Carioto, DVM, DVSc, Diplomate ACVIM

IMAGING PERFORMED BY

Carissa Rhoades

HOSPITAL NAME



Elizabeth AH

REFERRING VET

Dr. Anderson

INVOICE

DATE

4/29/22



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Sage Waites

SPECIES

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Chihuahua

SEX

Spayed Female

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WEIGHT

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ACVIM

**IMAGING
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Carissa Rhoades

HOSPITAL NAME

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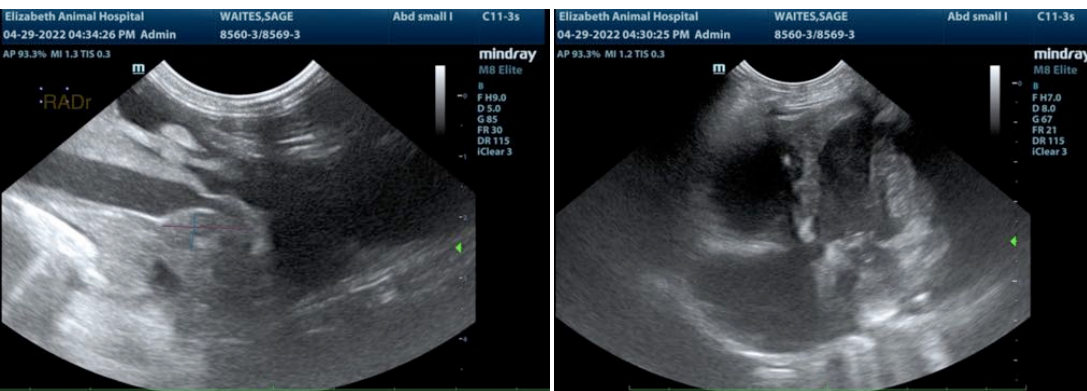
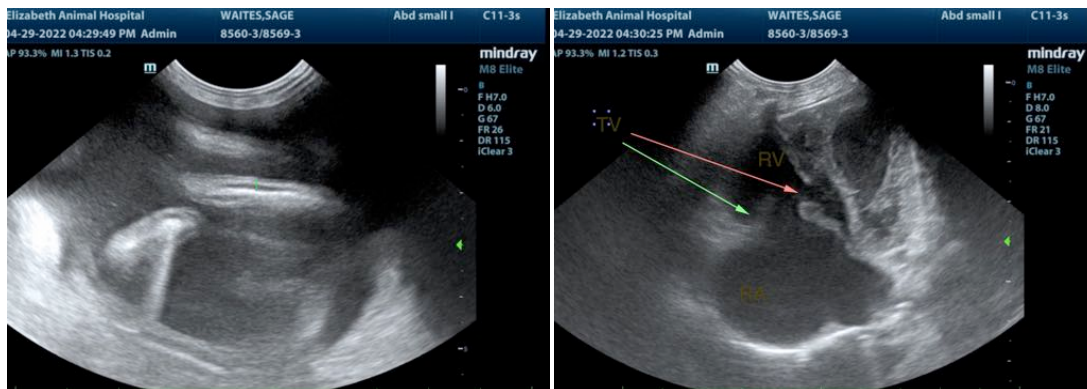
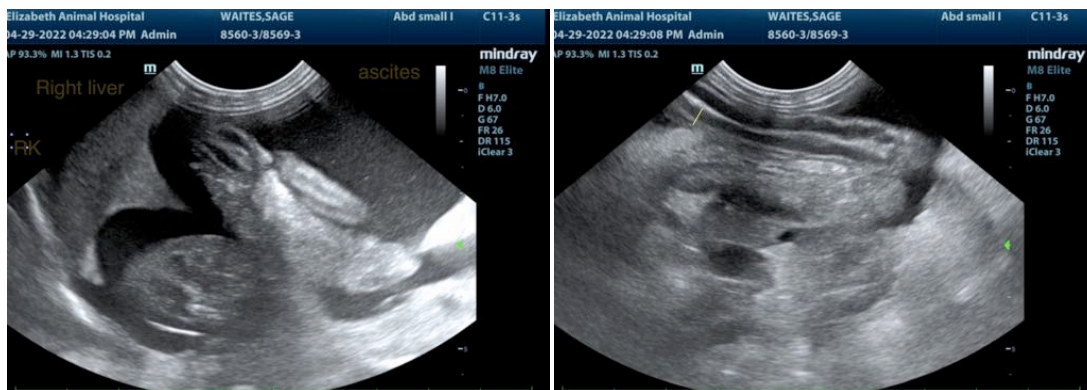
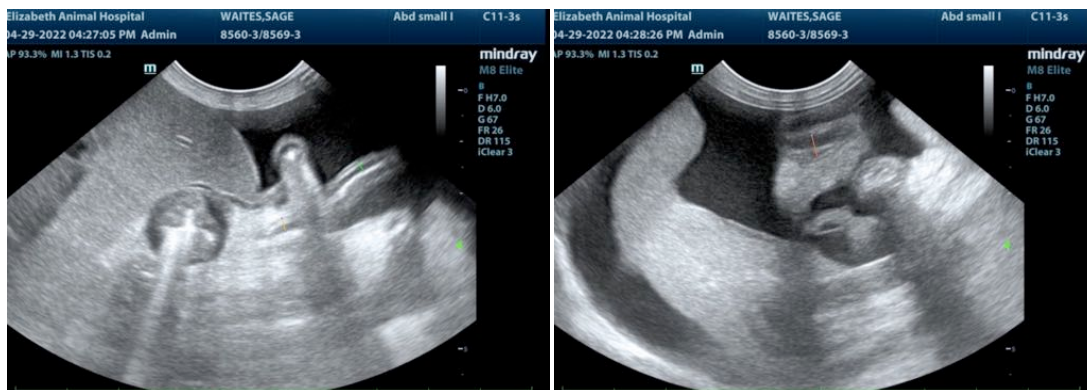
REFERRING VET

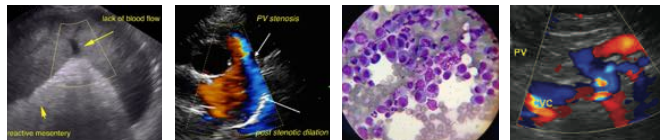
Dr. Anderson

INVOICE

DATE

4/29/22





PATIENT

Sage Waites

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.

SPECIES

Canine

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.

Lisa Carioto, DVM, DVSc, Diplomate ACVIM

BREED

Chihuahua

Lisa.Carioto@sonopath.com

SEX

Spayed Female

AGE

11 years

WEIGHT

7.44 lbs

INTERPRETED BY

Lisa Carioto, DVM,
DVSc, Diplomate
ACVIM

**IMAGING
PERFORMED BY**

Carissa Rhoades

HOSPITAL NAME

Elizabeth AH

REFERRING VET

Dr. Anderson

INVOICE

DATE

4/29/22