

**PATIENT**

Bailey Lent

SPECIES

Canine

BREED

English Bulldog

SEX

Spayed Female

AGE

9 years

WEIGHT

49 lbs

INTERPRETED BYLisa Carioto, DVM,
DVSc, Diplomate
ACVIM**IMAGING PERFORMED BY**

Amy Mayhew, LVT

HOSPITAL NAME

SVS Imaging Michigan

REFERRING VET

Hidden Spring VC

INVOICE

30224

DATE

5/9/22

PRESENTING CLINICAL SIGNSHistory: 5/6/22 Exam- Not doing well. Low Energy. Not Eating. Urinating in the house. BW RBC: 5.27
HCT 33% Looks Pale**RADIOGRAPHS**

Hemivertebrae

Cardiomegaly, both left atrium and high index of suspicion of the right ventricle

Mild to moderate, diffuse, interstitial and peribronchiolar lung pattern. The caudal lung lobes are more severely affected compared to the cranial lung lobes.

Splenomegaly

High index of suspicion of hepatomegaly

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**Urinary System**

The urinary bladder is inadequately filled, thereby affecting the ability to accurately measure wall thickness. Its contents are anechoic. The wall is smooth and regular. Distinct differentiations are noted between the mucosa and submucosa. The mucosa measures 4.0 mm, while the submucosa measures 2.2 mm. The submucosa is hypo to anechoic compared to normal. No abnormalities are noted with the trigone or proximal urethra, and there is no evidence of sediment, cystoliths, polyps or a mass.

Kidneys

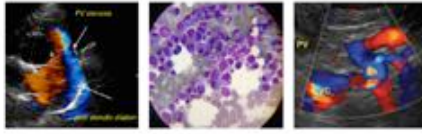
The **left** kidney measures 6.47 cm. The capsule is mildly to moderately irregular along the antimesenteric border. The cortex is mildly hyperechoic and a mild to moderate loss of the normal definition of the cortico-medullary junction is present. Mineralizations of the diverticulae and pelvis are present, without evidence of nephroliths. Pyelectasia is present; longitudinal = 6.5 mm, transverse = 3.1 mm. Subjectively, blood flow appears increased. The surrounding mesentery is mildly hyperechoic.

The **right** kidney measures 6.90 cm. The capsule is mildly to moderately irregular along the antimesenteric border. The cortex is mildly hyperechoic and a mild to moderate loss of the normal definition of the cortico-medullary junction is present. Mineralizations of the diverticulae and pelvis are present, without evidence of nephroliths. Pyelectasia is present; longitudinal = 7.5 mm, transverse = 5.9 mm. Subjectively, blood flow appears increased. The surrounding mesentery is mildly hyperechoic.

Aortic bifurcation/trifurcation

No abnormalities observed.

Adrenal GlandsThe **left** adrenal gland is not visualized due to gas in the surrounding GI tract and the left kidney.

**PATIENT**

Bailey Lent

The **right** adrenal gland measures 0.77 cm at the cranial pole and 0.79 cm at the caudal pole. They are both very mildly enlarged and “plump”, however, an obvious mass and nodule are not observed. No abnormalities are noted with the gland’s overall architecture, echogenicity or echotexture. The phrenico-abdominal vein and surrounding vasculature and mesentery are unremarkable.

SPECIES

Canine

Spleen

The spleen is within normal limits in size, architecture, echotexture, and echogenicity. The capsule is smooth.

BREED

English Bulldog

Hypoechoic nodules are observed mid body.

SEX

Spayed Female

1. 7.45 mm in diameter x 8.18 mm in length
2. 3.97 mm in diameter x 7.00 mm in length
3. 4.80 mm in diameter x 6.32 mm in length
4. 2.82 mm in diameter x 3.59 mm in length

AGE

9 years

No abnormalities are observed with its vasculature, i.e. congestion and thrombi are not identified.

WEIGHT

49 lbs

There are no obvious signs of hepatomegaly and its borders are smooth and sharp. The liver’s echotexture is homogeneous. It is mildly and diffusely hyperechoic. Perivascular cuffing is noted throughout the liver, which may be due to the deposition of fat as well as some mineralization. The walls of the portal veins are hyperechoic compared to usual. This may be due to inflammation, deposition of fat, fibrosis and/or mineralization. No abnormalities are observed with the large hepatic vessels visualized. No abnormalities are noted with the porta hepatis.

INTERPRETED BYLisa Carioto, DVM,
DVSc, Diplomate
ACVIM

The gallbladder wall is within normal limits in thickness and echogenicity. A small amount of echogenic material is present within the GB. The sludge is free floating, gravity-dependent, and inspissated, forming nodules. Sludge is also adhered to the wall. The portions of the cystic and/or common bile ducts observed are not dilated or tortuous, i.e. there are no signs of an obstruction.

IMAGING PERFORMED BY

Amy Mayhew, LVT

Gastrointestinal

A large amount of gas is present in the lumen of the stomach. The gastric wall is within normal limits in thickness. Fogging is present along the muscularis, which is also more prominent than usual. A possible bleeding ulcer is observed in one of the images, i.e. gas bubbles noted with accumulation of fluid. Peristalsis appears decreased, i.e. a “to and fro” motion is observed. The mesentery surrounding the stomach is severely hyperechoic.

HOSPITAL NAME

SVS Imaging Michigan

REFERRING VET

Hidden Spring VC

Stippling and striations are noted within the mucosa of the duodenum (0.54 cm); within normal limits.

Stippling and striations are noted, in addition to a mildly prominent muscularis of the small intestines. Abnormally dilated loops of bowel are not observed.

INVOICE

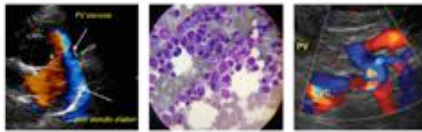
30224

The colonic wall is not thickened and mural detail is considered normal.

DATE

5/9/22

Pancreas

**PATIENT**

Bailey Lent

No overt abnormalities are observed with the echogenicity or echotexture of the left limb. There is no evidence of hyperechogenicity of the surrounding mesentery, i.e., signs of active pancreatitis are not present.

SPECIES

Canine

The body of the pancreas is diffusely hypoechoic. The surrounding mesenteric fat is severely hyperechoic, suggestive of saponification. These findings are highly suggestive of active pancreatitis. Overt signs of neoplasia are not noted.

BREED

English Bulldog

Other**Lymph nodes****SEX**

Spayed Female

A pancreatic LN, measuring 0.36 cm is noted. The surrounding mesentery is severely hyperechoic.

Multiple gastric LNs are more prominent and hypoechoic. The surrounding mesentery is severely hyperechoic.

AGE

9 years

Abdominal effusion is not visualized.

WEIGHT

49 lbs

Heart

A brief video clip of the heart was submitted. Pericardial and pleural effusion are not identified. Pulmonary edema is not present. A mass is not observed on evaluation of the right auricle, however, a mass may be overlooked in the absence of pericardial effusion. No obvious abnormalities with contractility. The aorta and left atrium appear equal in size.

INTERPRETED BYLisa Carioto, DVM,
DVSc, Diplomate
ACVIM**ULTRASONOGRAPHIC FINDINGS**

- High index of suspicion of a gastric ulcer with secondary hemorrhage and anemia.
- The gastrointestinal changes are non-specific and somewhat subjective, however, they may also be present in patients suffering from gastrointestinal inflammation, for example, inflammatory bowel disease, food intolerance, dysbiosis, etc. The striations may be associated with lymphangiectasia. Obtaining a history regarding signs of GERD, as well as pica, frequency of nausea, vomiting, diarrhea, etc. is suggested.
- There are no obvious signs of nephroliths, a mass or hydronephrosis to cause pyelectasia. However, the surrounding mesentery is mildly hyperechoic. The hyperechoic cortices, hyperechoic mesentery and pyelectasia may be due to pyelonephritis. Hypertension cannot be excluded.
- The cause of the differentiation between the mucosa and submucosa of the urinary bladder is unknown. Inflammation and infiltrative disease cannot be excluded.
- The splenic nodules are suggestive of benign processes, such as extramedullary hematopoiesis secondary to anemia. Other differential diagnoses include, nodular or lymphoid hyperplasia. Neoplasia, such as lymphoma, mast cell or other round cell tumour, is considered highly unlikely.

IMAGING PERFORMED BY

Amy Mayhew, LVT

HOSPITAL NAME

SVS Imaging Michigan

REFERRING VET

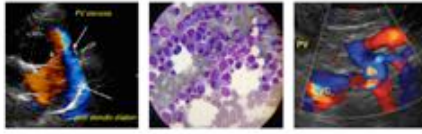
Hidden Spring VC

INVOICE

30224

DATE

5/9/22

**PATIENT**

Bailey Lent

- The mild, but diffuse hyperechogenicity of the liver, is most likely due to a vacuolar hepatopathy, which may occur due to stress, chronic illness, or HAC. The latter is considered unlikely. Other differential diagnoses for a diffusely hyperechoic liver, such as hepatitis, cholestasis and cholangitis/cholangiohepatitis, are also considered unlikely.

SPECIES

Canine

- The presence of sludge in the gallbladder is often clinically insignificant, however, some dogs may show clinical signs of gastroesophageal reflux disease (GERD), therefore, obtaining a history regarding signs of GERD from the client is suggested. Treatment with an anti-acid, proton pump inhibitor or ursodeoxycholic acid may be required depending on the patient's history.

BREED

English Bulldog

- Acute pancreatitis cannot be excluded.

SEX

Spayed Female

- The right gland is enlarged and "plump". These findings may be due to adrenal hyperplasia secondary to stress, chronic illness, or possibly pituitary dependent hyperadrenocorticism (HAC). There are no clinical signs associated with HAC, therefore, further diagnostics are not necessary as Bailey has not been demonstrating clinical signs of HAC.

AGE

9 years

- The lymphadenomegaly is most likely secondary to reactive hyperplasia.

WEIGHT

49 lbs

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Evaluation of Bailey's history and exposure to medications, including inadvertent consumption of non-steroidal anti-inflammatories, and natural supplements is suggested.

INTERPRETED BYLisa Carioto, DVM,
DVSc, Diplomate
ACVIM

Obtaining a history regarding signs of GERD, as well as pica, frequency of nausea, vomiting, diarrhea, etc. is suggested.

Small, frequent meals are recommended, including a small snack prior to going to bed, if she has a history of vomiting bile first thing in the morning.

IMAGING PERFORMED BY

Amy Mayhew, LVT

A urinalysis and urine culture and sensitivity are suggested to exclude possible pyelonephritis. Enrofloxacin is suggested pending the results.

Evaluation of the conformation of Bailey's vulva and perivulvar region is recommended. Basic hygiene should be pursued on a daily basis with chlorhexidine 0.025-0.05%, rinsed with luke warm water, and ensuring the area is kept dry to decrease risk of infection.

HOSPITAL NAME

SVS Imaging Michigan

A sonographic re-evaluation of the urinary bladder and kidneys is recommended in 10 to 14 days.

REFERRING VET

Hidden Spring VC

Analgesia is strongly recommended to decrease pain associated with stretching of the renal capsule and to treat possible acute pancreatitis. A spec cPL may be performed to confirm the diagnosis, however, it will not change her treatment. If costs are a concern, finances are better spent on treatment.

INVOICE

30224

Treatment for gastric ulcers is recommended, sucralfate every 4 hours for the first 12 - 16 hours, then every 8 hours thereafter and omeprazole at 0.7-1 mg/kg PO q12h. *Note, liquid sucralfate should be used. If cost prohibitive, the pills may be crushed and made into a slurry, however, this is not as effective.

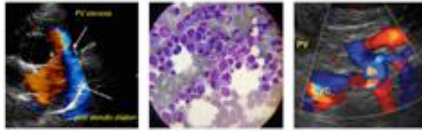
DATE

5/9/22

An evaluation of Bailey's arterial blood pressure is recommended to exclude hypertension associated with the increased blood flow noted with her kidneys. It should, ideally be performed in the presence of the client to minimize the effects of stress.

IMAGING PERFORMED BY

SVS Mobile Imaging 262-366-5970
fredgromalak@gmail.com



SonoPath
Clinical Sonography & Telectyology

EDUCATIONAL TELECONSULTATION SERVICES™

1-800-838-4268 info@sonopath.com SonoPath.com

PATIENT

Bailey Lent

A re-evaluation of Bailey's PCV and TS is recommended in 5 days, following the initiation of sucralfate and omeprazole.

SPECIES

Canine

BREED

English Bulldog

SEX

Spayed Female

AGE

9 years

WEIGHT

49 lbs

INTERPRETED BY

Lisa Carioto, DVM,
DVSc, Diplomate
ACVIM

**IMAGING
PERFORMED BY**

Amy Mayhew, LVT

HOSPITAL NAME

SVS Imaging Michigan

REFERRING VET

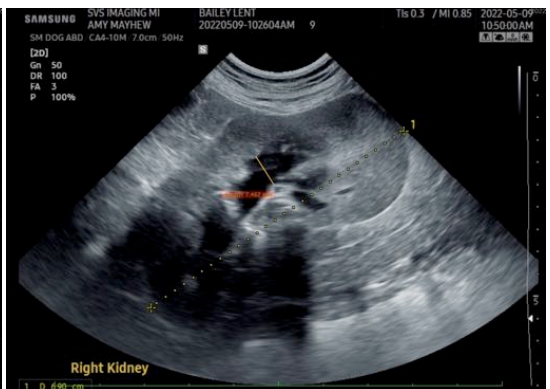
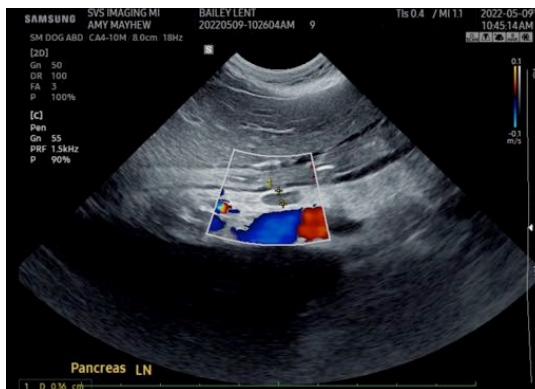
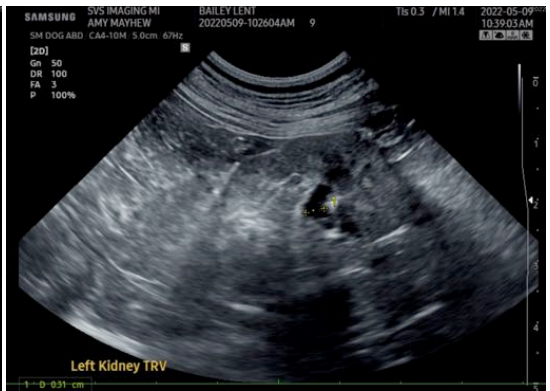
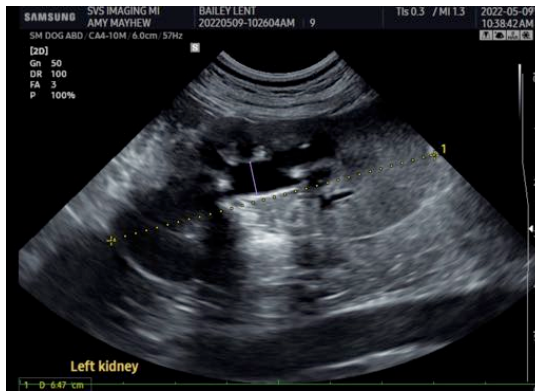
Hidden Spring VC

INVOICE

30224

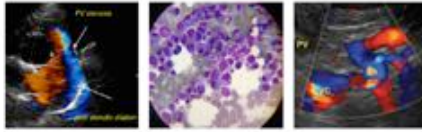
DATE

5/9/22



IMAGING PERFORMED BY

SVS Mobile Imaging 262-366-5970
fredgromalak@gmail.com



Clinical Sonography & Telectylogy

EDUCATIONAL TELECONSULTATION SERVICES™

1-800-838-4268 info@sonopath.com SonoPath.com

PATIENT

Bailey Lent

SPECIES

Canine

BREED

English Bulldog

SEX

Spayed Female

AGE

9 years

WEIGHT

49 lbs

INTERPRETED BY

Lisa Carioto, DVM,
DVSc, Diplomate
ACVIM

IMAGING
PERFORMED BY

Amy Mayhew, LVT

HOSPITAL NAME

SVS Imaging Michigan

REFERRING VET

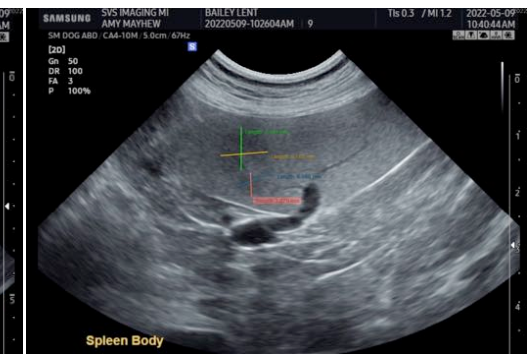
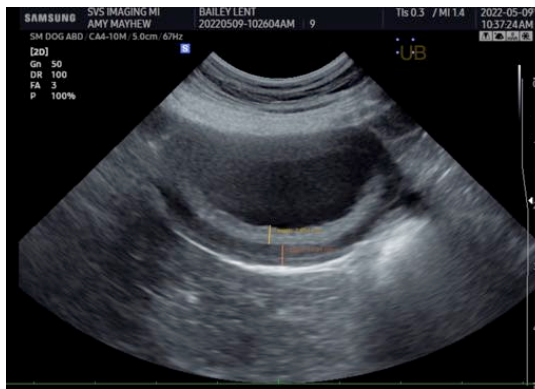
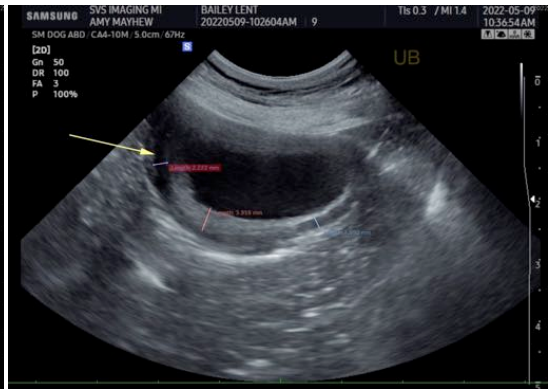
Hidden Spring VC

INVOICE

30224

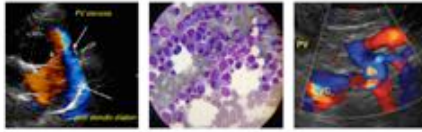
DATE

5/9/22



IMAGING PERFORMED BY

SVS Mobile Imaging 262-366-5970
fredgromalak@gmail.com



SonoPath
Clinical Sonography & Telectyology

EDUCATIONAL TELECONSULTATION SERVICES™

1-800-838-4268 info@sonopath.com SonoPath.com

PATIENT

Bailey Lent

SPECIES

Canine

BREED

English Bulldog

SEX

Spayed Female

AGE

9 years

WEIGHT

49 lbs

INTERPRETED BY

Lisa Carioto, DVM,
DVSc, Diplomate
ACVIM

**IMAGING
PERFORMED BY**

Amy Mayhew, LVT

HOSPITAL NAME

SVS Imaging Michigan

REFERRING VET

Hidden Spring VC



INVOICE

30224

DATE

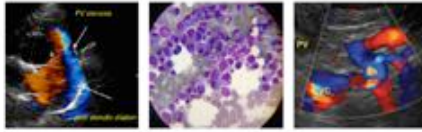
5/9/22

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.

IMAGING PERFORMED BY

SVS Mobile Imaging 262-366-5970
fredgromalak@gmail.com



Clinical Sonography & Telectology

EDUCATIONAL TELECONSULTATION SERVICES™

1-800-838-4268 info@sonopath.com SonoPath.com

PATIENT

Bailey Lent

Lisa Carioto, DVM, DVSc, Diplomate ACVIM

Lisa.Carioto@sonopath.com

SPECIES

Canine

BREED

English Bulldog

SEX

Spayed Female

AGE

9 years

WEIGHT

49 lbs

INTERPRETED BY

Lisa Carioto, DVM,
DVSc, Diplomate
ACVIM

**IMAGING
PERFORMED BY**

Amy Mayhew, LVT

HOSPITAL NAME

SVS Imaging Michigan

REFERRING VET

Hidden Spring VC

INVOICE

30224

DATE

5/9/22