



PATIENT

Shemby Zellweger

SPECIES

Canine

BREED

Rottweiler

SEX

Neutered Male

AGE

11 Years

WEIGHT

124 Pounds

INTERPRETED BY

Beth Johnson, DVM
DACVIM

IMAGING PERFORMED BY

Amy Mayhew, LVT

HOSPITAL NAME

SVS Imaging Michigan

REFERRING VET

Wixom Family Pet
Practice

INVOICE

17454

DATE

9/26/22

PRESENTING CLINICAL SIGNS

History: A year ago became PU/PD, urination improved, but drinking more remained. This weekend began knuckling on left front leg. Increase in hunger and weight gain with lethargy more recently.

Abnormal PE/Chem/CBC/UA Results: See attached labs and previous aus. Left should pain and thoracolumbar pain.

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

Urinary bladder is adequately distended with anechoic contents. No masses, inflammatory changes, echogenic sediment or cystoliths are observed. The urinary bladder, trigone and visible pelvic urethra are normal in thickness with a smooth mucosal surface.

Th area of the prostate is examined without evident pathology.

Left kidney is normal is size (7.36 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia, mineral or infarcts observed.

Right kidney is normal is size (7.98 cm), shape and echogenicity. It has smooth peripheral margination. There is a normal 1:3 cortex to medulla ratio with appropriate corticomedullary distinction. There is no evidence of pyelectasia, mineral or infarcts observed.

Adrenal Glands

Left adrenal gland is normal in size (0.81 cm at cranial pole and 0.72 cm at caudal pole), shape and overall architecture, echogenicity and echotexture. Visible surrounding vasculature appears normal.

In the area of the right adrenal gland, there is a 4-5 cm round heterogeneous mass, resulting in marked capsular expansion with suspected capsular escape and some concern for vascular invasion.

Spleen

Spleen is subjectively normal in size with a normal smooth capsular contour. Parenchyma is appropriately finely textured and homogenous with normal echogenicity relative to surrounding tissue (hyperechoic to liver). An approximately 2.0 cm in diameter, hypo- to anechoic nodule was noted in the tail of the spleen and several smaller. A 1.5 cm and a 0.7 cm-0.8 cm round similar appearing nodules are noted in the body of the spleen. Multifocal mineral foci are noted. Splenic vasculature appears normal.

Liver

Liver is subjectively enlarged with mildly irregular margins. Parenchyma is heterogenous characterized by multiple poorly defined hypoechoic nodules within otherwise hyperechoic liver parenchyma. Visible vasculature and biliary tree appear normal without distension or congestion.

Gallbladder is mildly overdistended with a moderate amount of non-dependent, mildly aggregated/inspissated sludge. Hypo to anechoic cystic areas are noted between the gallbladder sludge and luminal wall. The wall is otherwise smooth without visible thickening. There is no evidence of cystic or CBD dilation. There is no evidence of effusion.

Gastrointestinal



PATIENT

Shemby Zellweger

The visible stomach wall is normal in thickness and layering. The lumen of the stomach is empty with no evidence of obstruction, foreign material or infiltrative disease. Pyloric outflow tract appears patent.

SPECIES

Canine

The visible small intestines are normal in wall thickness and layering. Small intestinal motility appears adequate (1-3 contractions per min). The lumen of the small intestine is empty with no evidence of obstruction, foreign material or infiltrative disease.

BREED

Rottweiler

The visible colon is normal in wall thickness and layering. Contents are consistent with normal formed feces and gas.

SEX

Neutered Male

Pancreas

The observed pancreas appears appropriately isoechoic to surrounding omental fat. Visible capsule is smooth and normal in contour. Visible pancreatic parenchyma is homogenous and unremarkable. There is no visible pancreatic duct dilation. There is no evidence of active peripancreatic inflammation.

Free Abdomen

AGE

11 Years

There is no evidence of peritoneal effusion. There is no apparent lymphadenopathy.

ULTRASONOGRAPHIC FINDINGS

WEIGHT

124 Pounds

- A right adrenal mass with suspected capsular escape and possible vascular invasion is concerning for infiltrative malignant neoplasia, such as an adrenal adenocarcinoma or potentially pheochromocytoma. A pheochromocytoma may be more likely given the lack of a contralaterally small left adrenal gland. Benign adenoma or even hyperplasia secondary to pituitary dependent hyperadrenocorticism are possible but considered less likely.

INTERPRETED BY

Beth Johnson, DVM
DACVIM

- Emerging mucocele – Cholecystic debris is of unknown clinical significance. It can be seen with biliary stasis from fasting or illness. Cholecystic debris is not necessarily related to hepatobiliary disease. The non-dependent nature of this sludge combined with the cystic areas are suggestive, however, of possible emerging cystic mucosal hyperplasia or early gallbladder mucocele.

IMAGING PERFORMED BY

Amy Mayhew, LVT

- Heterogenous Liver – These changes are most consistent with benign processes such as nodular hyperplasia, steroid (vacuolar) hepatopathy, extramedullary hematopoiesis or possibly chronic inflammatory disease and less commonly infiltrative round cell or metastatic neoplasia.

HOSPITAL NAME

SVS Imaging Michigan

- Spleen mineralization – This is a benign change but can be associated with endocrinopathies, especially hyperadrenocorticism.

REFERRING VET

Wixom Family Pet
Practice

* Hypo to anechoic splenic nodules – likely represents a benign lesion such as a cyst, hematoma, nodular hyperplasia, extramedullary hematopoiesis, etc., however while considered less likely, infiltrative neoplasia can mimic benign lesions, and cannot be ruled out. The splenic nodules appear static to the previous ultrasound.

INVOICE

17454

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

DATE

9/26/22

- Given this patients adrenal changes and reported knuckling, further evaluation for a possible vascular event is recommended with a blood pressure if not recently evaluated, as well as a urinalysis and, if indicated based on urinalysis results, urine culture are recommended. If



PATIENT

Shemby Zellweger

protein is present in an otherwise quiet sediment, protein quantification with a urine protein to creatinine ration is recommended.

SPECIES

Canine

- Testing for hyperadrenocorticism in the form of a low dose dexamethasone suppression test is recommended.

BREED

Rottweiler

- Ultimately, pending results of right adrenalectomy is likely the treatment of choice and if pursued, a presurgical planning abdominal CT scan could be considered for further more definitive evaluation of possible vascular invasion and three view thoracic radiographs are recommended for further assessment of cardio-pulmonary status as well as to further evaluate for any evidence of metastatic disease, if not recently evaluated.

SEX

Neutered Male

AGE

11 Years

WEIGHT

124 Pounds

INTERPRETED BY

Beth Johnson, DVM
DACVIM

IMAGING PERFORMED BY

Amy Mayhew, LVT

HOSPITAL NAME

SVS Imaging Michigan

REFERRING VET

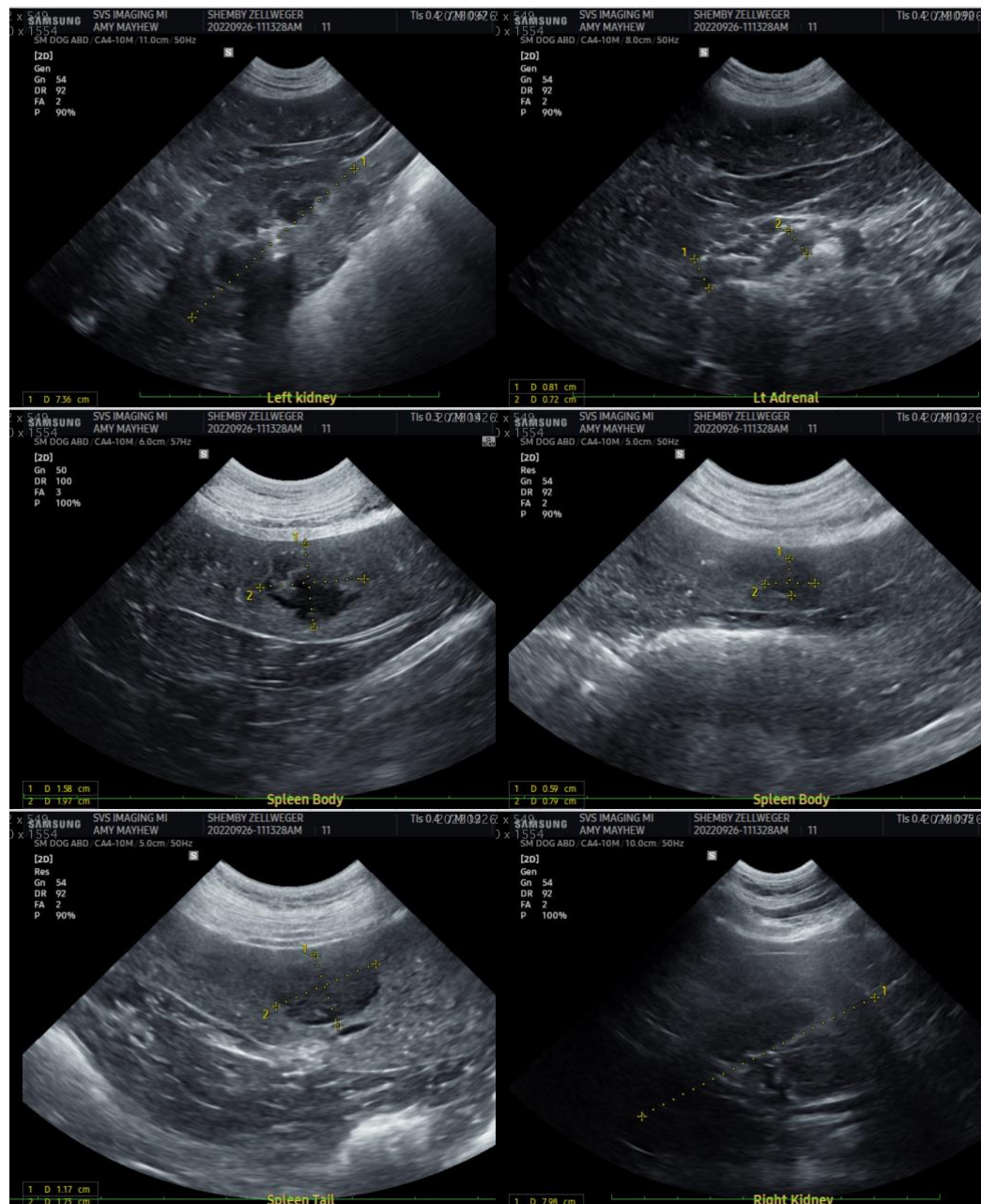
Wixom Family Pet
Practice

INVOICE

17454

DATE

9/26/22





PATIENT

Shemby Zellweger

SPECIES

Canine

BREED

Rottweiler

SEX

Neutered Male

AGE

11 Years

WEIGHT

124 Pounds

INTERPRETED BY

Beth Johnson, DVM
DACVIM

IMAGING PERFORMED BY

Amy Mayhew, LVT

HOSPITAL NAME

SVS Imaging Michigan

REFERRING VET

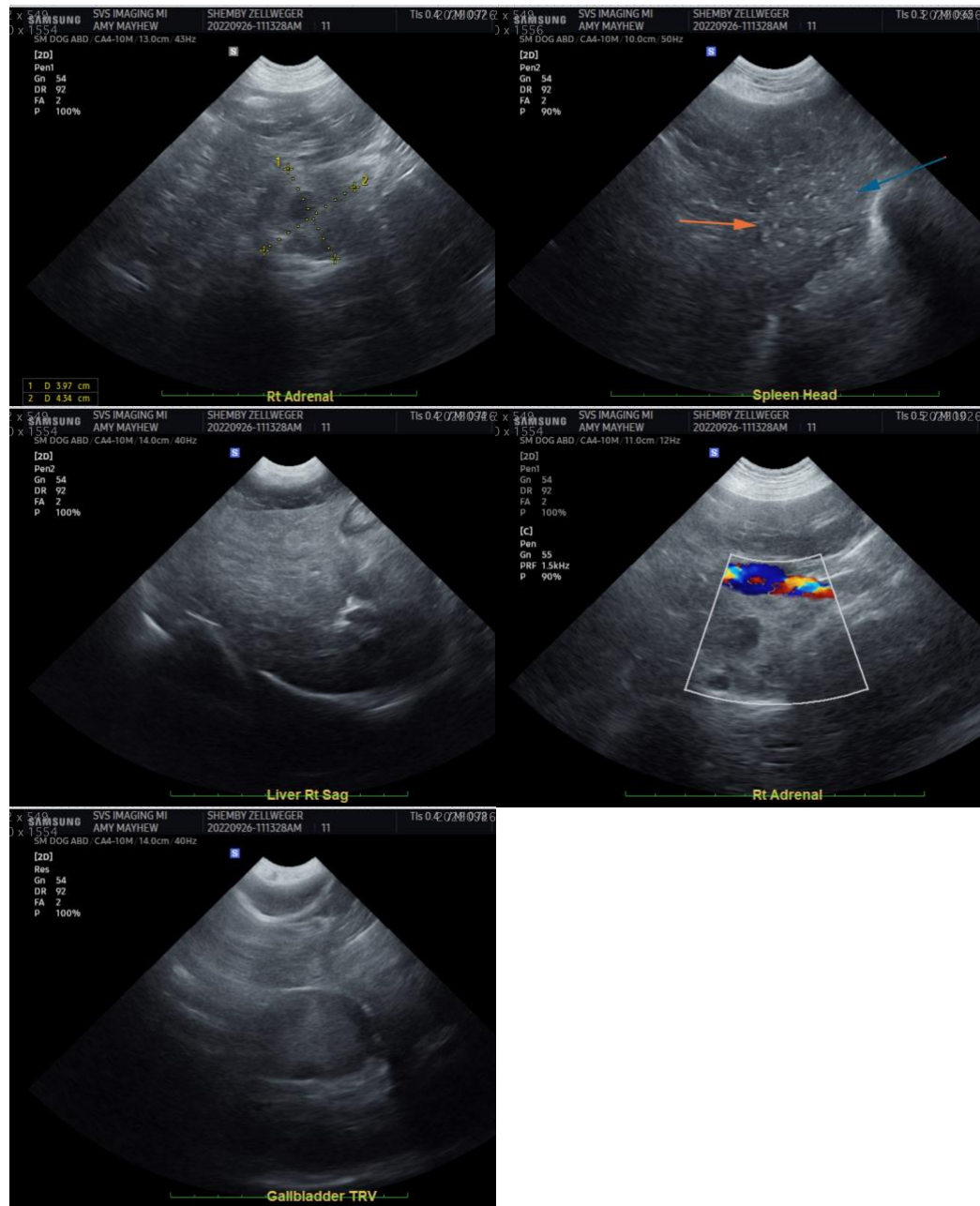
Wixom Family Pet
Practice

INVOICE

17454

DATE

9/26/22

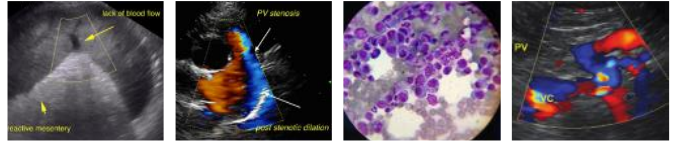


The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Beth Johnson, DVM DACVIM

Beth.Johnson@SonoPath.com



PATIENT

Shemby Zellweger

SPECIES

Canine

BREED

Rottweiler

SEX

Neutered Male

AGE

11 Years

WEIGHT

124 Pounds

INTERPRETED BY

Beth Johnson, DVM
DACVIM

**IMAGING
PERFORMED BY**

Amy Mayhew, LVT

HOSPITAL NAME

SVS Imaging Michigan

REFERRING VET

Wixom Family Pet
Practice

INVOICE

17454

DATE

9/26/22