

**PATIENT**

Charlston Young

SPECIES

Canine

BREED

Collie

SEX

MN

AGE

9 years

WEIGHT

78 lbs.

INTERPRETED BYR. McKenzie Daniel,
DVM, DABVP (Canine
and Feline)**IMAGING
PERFORMED BY**

Rachel Runnells, RVT

HOSPITAL NAME

SVS Imaging KC

REFERRING VET

Dr. Cavanaugh

INVOICE

15698

DATE

12/21/22

PRESENTING CLINICAL SIGNS

Coughing - two to three weeks. Dyspnea developed and went on to specialty clinic.

Radiographs - diffuse small nodular pattern in lungs.

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**Urinary System**

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2.0 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with no uroliths or sediment. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes was noted.

No evidence of medial Iliac or sublumbar lymphadenopathy.

Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio was maintained. The medulla and cortices were uniform in texture with some increased echogenicity and mild loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 7.1 cm in length. The right kidney measured 7.0 cm in length.

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.87 cm width at the caudal pole and 0.75 cm width at the cranial pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.79 cm width at the caudal pole.

Spleen

The spleen exhibited overall normal size with generalized mild splenic parenchyma heterogeneity including several to multiple mildly expansive, variably echogenic nodules. An example of a splenic nodule measured 1.1 cm in diameter. Normal splenic vascularity was noted. Some of the nodules appeared to mildly distort the splenic capsule, yet without evidence of capsular escape.

Liver/ Gallbladder

The liver exhibited generalized enlargement with areas of mild capsule asymmetry and diffuse, nonhomogeneous to mildly mixed echogenic hepatic parenchyma exhibiting moderate coarse echotexture and evidence of parenchymal remodeling. Ill-defined areas of nodular mid-liver parenchyma with subjective ill-defined nonhomogeneous to nodular intraparenchymal mass measuring approximately 7.5 cm in diameter were present mid-liver. The gallbladder was non-distended in size containing primarily anechoic content with mild, echogenic, nonorganized, gallbladder debris. No evidence of gallbladder or peripheral gallbladder inflammation was noted. The cystic and common bile ducts were normal.

Transdiaphragmatic view revealed comet tail lung pattern, which is echogenic sound wave interface with microconsolidations within the caudal lung field. The lung field should not be visualized by sonogram unless pathology is present. Chest radiographs are recommended to rule out alveolar/lung

**PATIENT**

Charlston Young

disease such as neoplasia, thromboembolic disease, chronic inflammatory disease with microconsolidation.

Gastrointestinal**SPECIES**

Canine

The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach was empty with no signs of ileus, obstruction, or foreign material.

BREED

Collie

The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. The lumen of the small intestine was empty with no signs of ileus, obstruction, or foreign material.

Normal visible colon wall layers were present with apparent formed feces in lumen.

SEX

MN

Pancreas

The parenchyma of the left limb, body, and right limb of the pancreas presented isoechoic to the adjacent omental fat. A normal curvilinear capsule contour of the pancreas was present. The visible pancreatic duct was normal. No signs of active inflammation or neoplastic disease were evident.

AGE

9 years

Free Abdomen

Normal perisplenic to generalized omental echogenicity was noted. No overt or significant intraabdominal lymphadenopathy was present. Mild volume primarily perihepatic free fluid was present.

WEIGHT

78 lbs.

ULTRASONOGRAPHIC FINDINGS**INTERPRETED BY**

R. McKenzie Daniel,
DVM, DABVP (Canine
and Feline)

- Enlarged liver exhibiting nonhomogeneous nodular parenchyma with ill-defined mid-liver nonhomogeneous to nodular mass
- Transdiaphragmatic comet tail artifact
- Mild volume primarily perihepatic free fluid
- Multiple variably echogenic mild expansive splenic nodules
- Mild age-related kidneys

IMAGING PERFORMED BY

Rachel Runnells, RVT

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**HOSPITAL NAME**

SVS Imaging KC

Although sampling is required for further assessment, primary concern for hepatic infiltrative neoplasia with potential for metastatic splenic nodules is warranted. Non-neoplastic etiology for the hepatic presentation and splenic nodules, which may include hepatosplenic hyperplasia, hematopoiesis, granulomas, non-neoplastic infiltration, i.e., fungal, or other are possible yet thought less likely.

REFERRING VET

Dr. Cavanaugh

Assuming normal clotting status, hepatosplenic FNA cytology is warranted for further assessment and potential for oncology consult. Correlation with pulmonary sampling, if possible, is likely ideal.

INVOICE

15698

DATE

12/21/22

IMAGING PERFORMED BY

SVS Mobile Imaging KC 816-401-5010
svsimagingkc@gmail.com



PATIENT

Charlston Young

SPECIES

Canine

BREED

Collie

SEX

MN

AGE

9 years

WEIGHT

78 lbs.

INTERPRETED BY

R. McKenzie Daniel, DVM, DABVP (Canine and Feline)

IMAGING PERFORMED BY

Rachel Runnells, RVT

HOSPITAL NAME

SVS Imaging KC

REFERRING VET

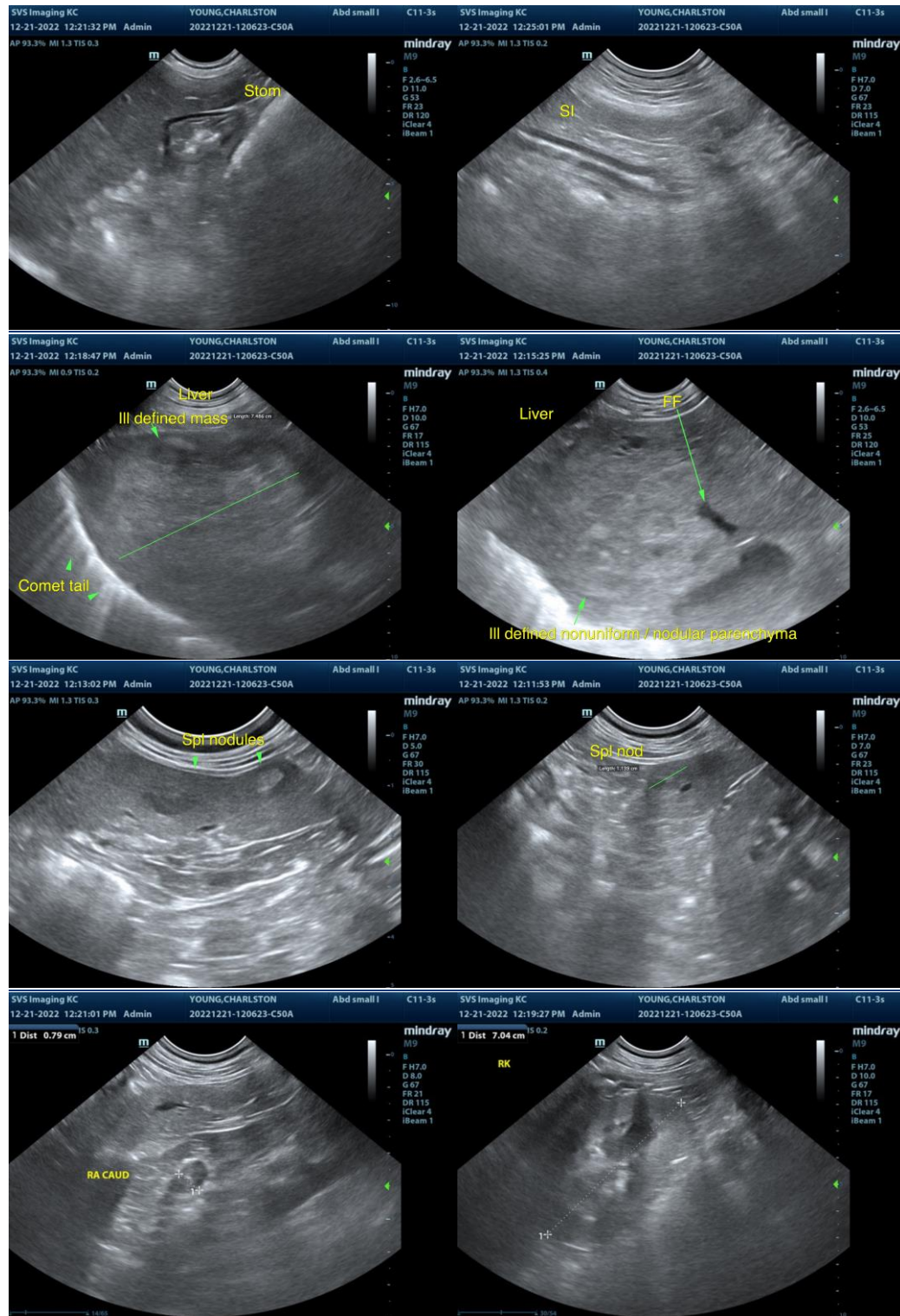
Dr. Cavanaugh

INVOICE

15698

DATE

12/21/22



IMAGING PERFORMED BY

SVS Mobile Imaging KC 816-401-5010
svsimagingkc@gmail.com



Clinical Sonography & Telecytology

EDUCATIONAL TELECONSULTATION SERVICES™

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

PATIENT

Charlston Young

SPECIES

Canine

BREED

Collie

SEX

MN

AGE

9 years

WEIGHT

78 lbs.

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP (Canine
and Feline)

**IMAGING
PERFORMED BY**

Rachel Runnells, RVT

HOSPITAL NAME

SVS Imaging KC

REFERRING VET

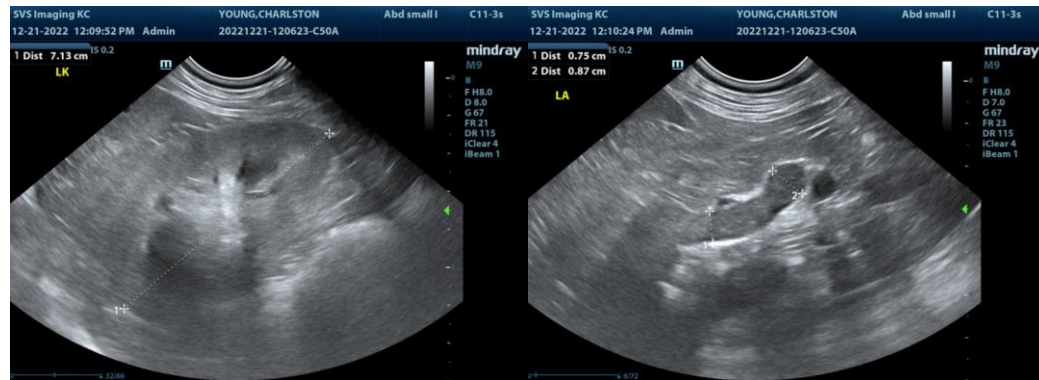
Dr. Cavanaugh

INVOICE

15698

DATE

12/21/22



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.

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)
info@SonoPath.com