



PATIENT

Khushi Rana

SPECIES

Canine

BREED

Bernadoodle

SEX

Neutered Male

AGE

8 Years

WEIGHT

86 Pounds

INTERPRETED BY

Beth Johnson, DVM
DACVIM

IMAGING PERFORMED BY

Shari Reffi, CVT

HOSPITAL NAME

Basking Ridge AH

REFERRING VET

Dr. Hollo

INVOICE

44646

DATE

2/1/23

PRESENTING CLINICAL SIGNS

Not eating, hematuria. Treated for Hemangiosarcoma. Current meds: Prednisone 20mg; Chlorambucil; Gabapentin; Omeprazole; Ondansetron

Abnormal PE/Chem/CBC/UA Results: HCT 23.78; decreased PLT; ALP 322; ALT 275. CBC w/path review pending

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder is subjectively mildly over distended with a large amount of very echogenic debris. Near the trigone, along the dependent wall, there is a round, 3.8 cm x 4.3 cm heterogeneous, hyperechoic density that is likely accumulated mucus debris, a blood clot, etc., given that it does not appear to have blood flow. However, a nodule or mass can't be ruled out. No cystoliths are observed.

Prostate is normal in size, echotexture and echogenicity for a neutered male.

The right kidney is 10.81 cm long. Normal kidney architecture is completely displaced by the presence of multifocal heterogeneous and partially cavitated nodules, include an approximate 4.0 cm primarily hypoechoic nodule in the cranial pole and a 6.0 cm more heterogeneous appearing nodule in the caudal pole.

The left kidney is normal in size (7.59 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

The right adrenal gland is normal in size (2.51 cm long x 0.99 cm at the cranial pole and 0.68 cm at the caudal pole), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.

The left adrenal gland is normal in size (2.06 cm long x 0.34 cm at the cranial pole and 0.64 cm at the caudal pole), shape and contour. Corticomedullary structure is unremarkable. Visible surrounding vasculature appears normal.

Spleen

Spleen is subjectively large in size with a swollen and scalloped/undulating capsular contour. Multifocal coalescing nodules are noted throughout the parenchyma. An 8.1 cm x 11.5 cm irregular, heterogeneous, cavitated mass is noted in the mid abdomen, medial to the spleen, that appears to be attached to the tail of the spleen. Splenic vasculature appears normal. Enhanced hyperechoic surrounding fat is noted.

Liver

Liver is subjectively enlarged with mildly irregular margins. Parenchyma is mottled by multifocal discrete hypoechoic nodules of varying sizes "moth-eaten". Specifically, an approximately 1.0 cm in diameter cyst is noted in the left caudal liver and in the right caudal liver. Visible vasculature and biliary tree appear normal without distension or congestion.

The gallbladder is non-distended in size. The wall is smooth without visible thickening. Luminal contents are primarily anechoic. There is no evidence of cystic or common bile duct dilation.



PATIENT

Gastrointestinal

Khushi Rana

The visible stomach wall is normal in thickness and layering. The lumen of the stomach is mildly distended with echogenic non-shadowing luminal contents and gas consistent with normal ingesta.

SPECIES

There is no evidence of obstruction, foreign material or infiltrative disease. Pyloric outflow tract appears patent.

Canine

BREED

The visible small intestines are normal in wall thickness and layering (canine duodenum < 0.5 cm and feline duodenum < 0.4 cm; other < 0.3 cm). 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.

Bernadoodle

SEX

The visible colon is normal in wall thickness (< 0.2 cm) and layering. Contents are consistent with normal formed feces and gas.

Neutered Male

Pancreas

AGE

The pancreatic parenchyma is appropriately isoechoic to surrounding tissue. Visible capsule is smooth and normal in contour. There is no visible pancreatic duct dilation. There is no evidence of active peripancreatic inflammation.

8 Years

WEIGHT

Free Abdomen

86 Pounds

A scant amount of anechoic free fluid is noted, primarily in the caudal abdomen.

INTERPRETED BY

There is no apparent lymphadenopathy noted in these images.

Beth Johnson, DVM
DACVIM

There is no evidence of pericardial or heart base pathology in these images.

ULTRASONOGRAPHIC FINDINGS

IMAGING PERFORMED BY

- Given this patient's reported history of currently being treated for hemangiosarcoma, the multifocal pathology described above is likely all infiltrative neoplasia/sarcoma/hemangiosarcoma, including the diffuse splenic nodules as well as the large heterogeneous splenic mass, the multifocal cystic liver nodules, as well as the heterogeneous right kidney nodules.

Shari Reffi, CVT

HOSPITAL NAME

- The urinary bladder debris is most likely hemorrhage and a large blood clot. However, infiltrative neoplasia affecting the urinary bladder too can't be ruled out.

Basking Ridge AH

REFERRING VET

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Dr. Hollo

If not recently evaluated, a urinalysis and, if indicated based on urinalysis results, urine culture are recommended. If protein is present in an otherwise quiet sediment, protein quantification with a urine protein to creatinine ration is recommended.

INVOICE

Additionally, for further staging, 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.

44646

DATE

In the meantime, continued medical management based on consultation with a veterinary oncologist is recommended.

2/1/23



PATIENT

Khushi Rana

SPECIES

Canine

BREED

Bernadoodle

SEX

Neutered Male

AGE

8 Years

WEIGHT

86 Pounds

INTERPRETED BY

Beth Johnson, DVM
DACVIM

IMAGING PERFORMED BY

Shari Reffi, CVT

HOSPITAL NAME

Basking Ridge AH

REFERRING VET

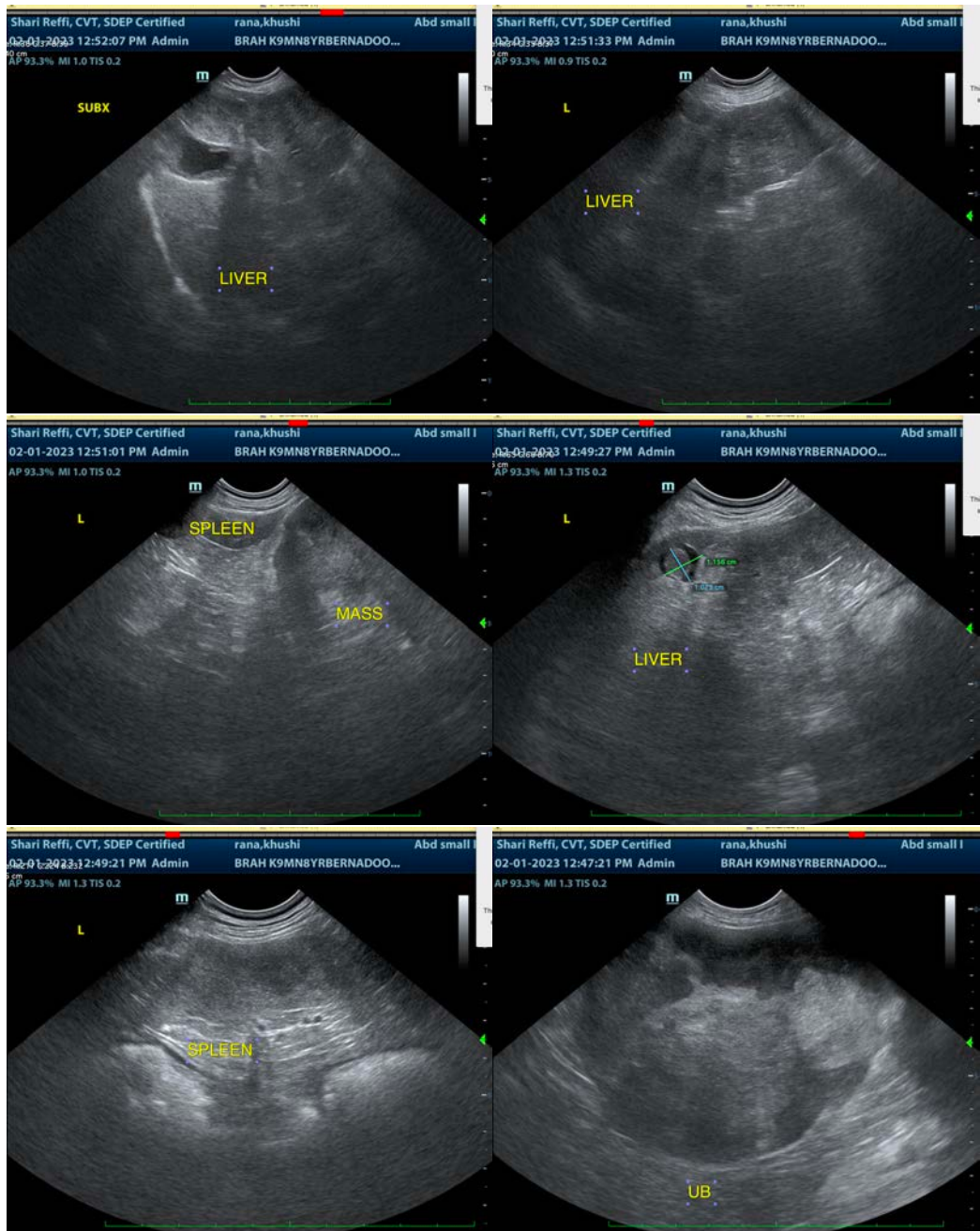
Dr. Hollo

INVOICE

44646

DATE

2/1/23





PATIENT

Khushi Rana

SPECIES

Canine

BREED

Bernadoodle

SEX

Neutered Male

AGE

8 Years

WEIGHT

86 Pounds

INTERPRETED BY

Beth Johnson, DVM
DACVIM

IMAGING PERFORMED BY

Shari Reffi, CVT

HOSPITAL NAME

Basking Ridge AH

REFERRING VET

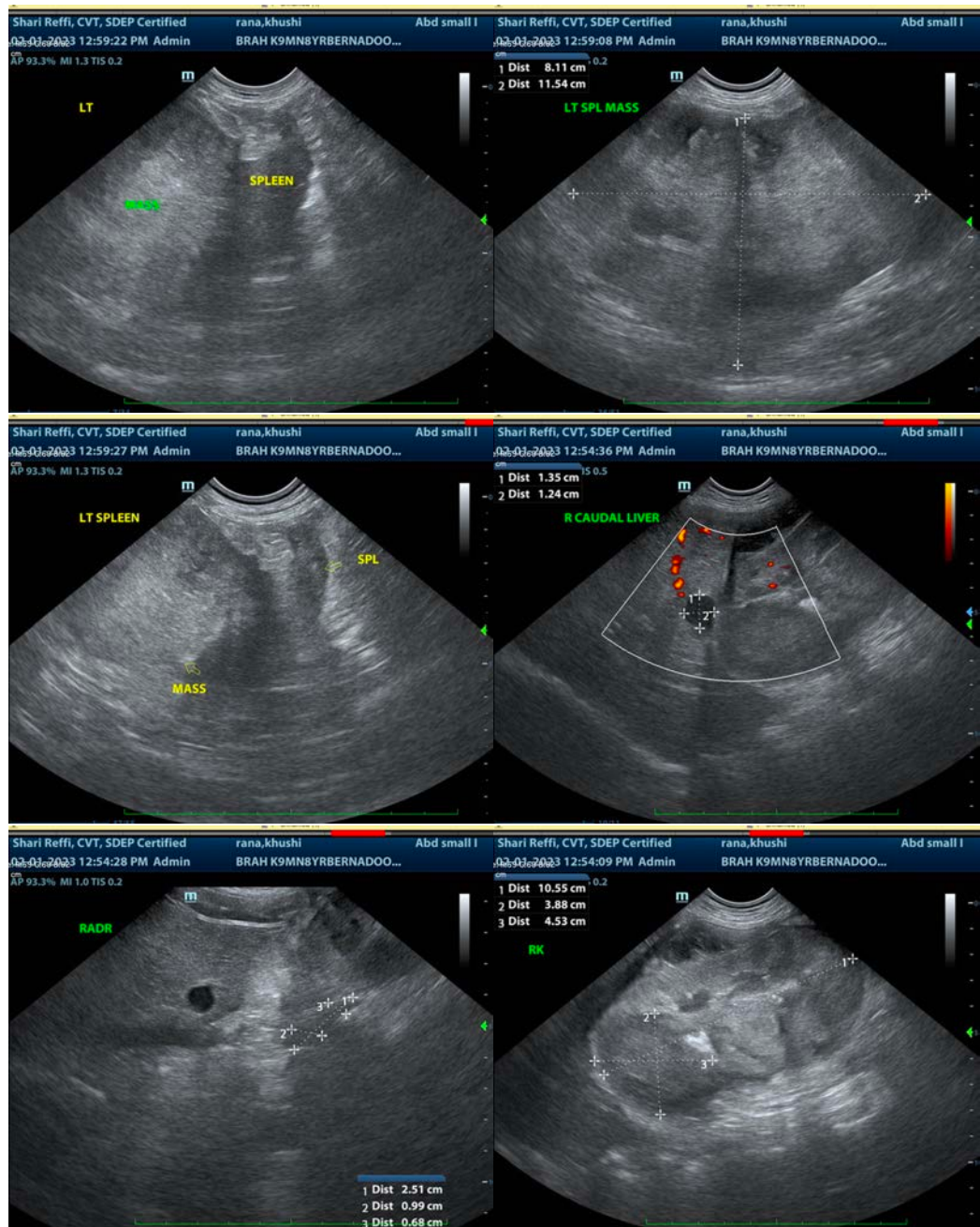
Dr. Hollo

INVOICE

44646

DATE

2/1/23





PATIENT

Khushi Rana

SPECIES

Canine

BREED

Bernadoodle

SEX

Neutered Male

AGE

8 Years

WEIGHT

86 Pounds

INTERPRETED BY

Beth Johnson, DVM
DACVIM

IMAGING PERFORMED BY

Shari Reffi, CVT

HOSPITAL NAME

Basking Ridge AH

REFERRING VET

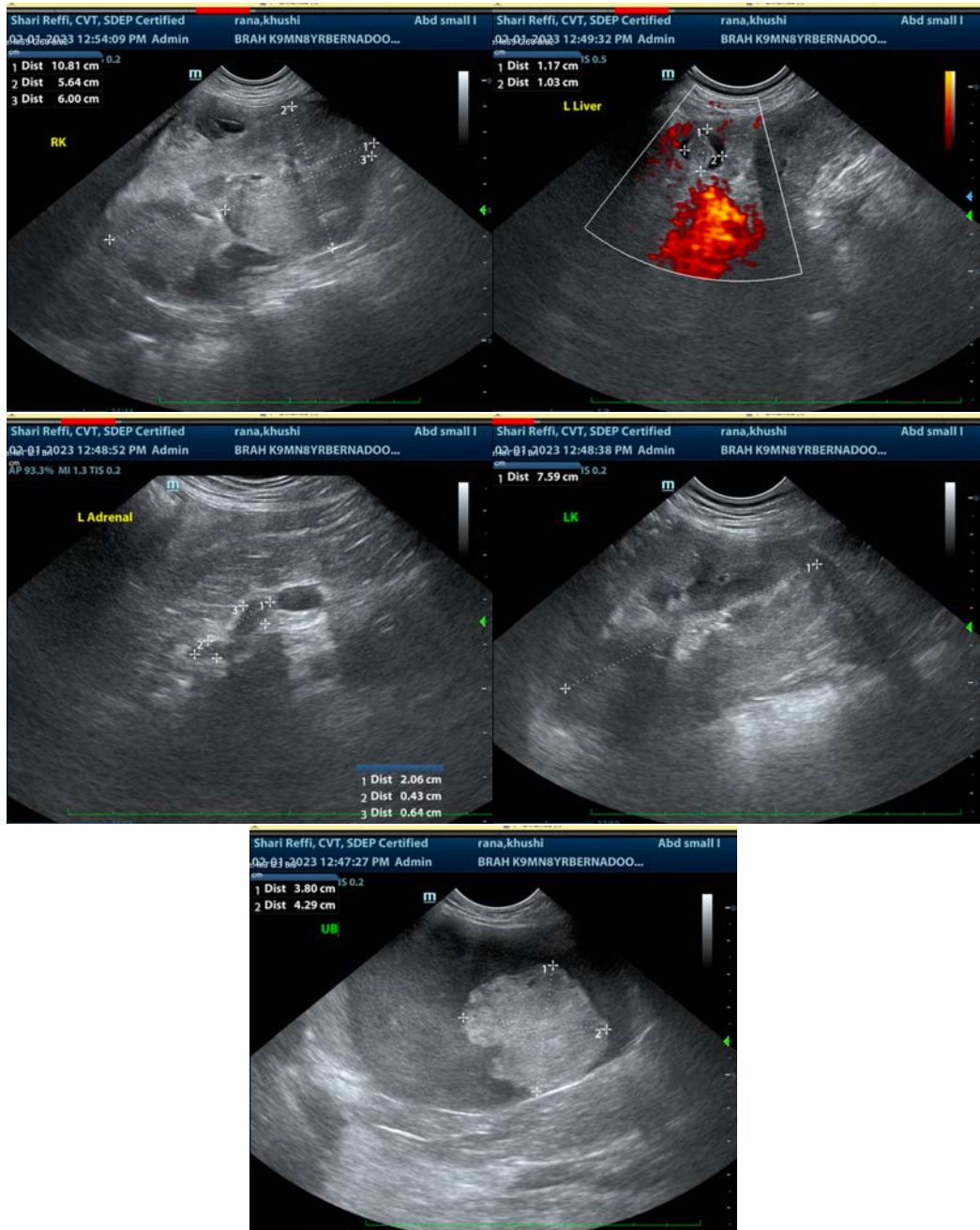
Dr. Hollo

INVOICE

44646

DATE

2/1/23



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.

Beth Johnson, DVM, DACVIM
Beth.Johnson@sonopath.com