

PATIENT PRESENTING CLINICAL SIGNS

Blue Flint History: very swollen and erythemic right hind leg; complete scan of rt hind leg musculature and soft tissue, plus abdomen. On Rimadyl and carprofen
Abnormal PE/Chem/CBC/UA Results: wnl

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED

Urinary System

Terrier Mix

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The ureters were not visible which is normal. No uroliths or sediment were visualized and anechoic urine was present. No evidence of inflammatory or neoplastic changes were noted. Ureteral papillae were normal. The pelvic urethra was imaged 3.0 cm beyond the cystourethral junction.

SEX

Intact female

The **kidneys** revealed largely normal size and structure, corticomedullary definition and ratio (cortex 1/3 of medulla) were essentially maintained with some minor age-related loss of curvilinear patterns regarding the capsule and C/M junction. The cortices presented largely uniform texture with some increased echogenicity expected for his age patient. Medullary structure differed distinctly from that of the cortex and no evidence of pelvic dilation was present. The right kidney measured 6.35 cm. The left kidney measured 6.03 cm.

AGE

11 years

WEIGHT

46 lbs

Adrenal Glands

Both **adrenal glands** were visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. The right adrenal gland measured 2.43 cm x 1.52 cm at the cranial pole and 0.64 cm at the caudal pole. The left adrenal gland measured 2.65 cm x 0.6 cm at the caudal pole and 0.59 cm at the cranial pole.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

Spleen

IMAGING PERFORMED BY

Diane McFadden, RVT

The **spleen** revealed a moderately complex, mixed echogenic (5.7 cm x 3.6 cm) mass with areas of cavitation. A separate mixed echogenic mass was noted in the spleen, measuring 4.88 cm x 2.68 cm, strongly consistent with hemangiosarcoma. No evidence of rupture noted, however, the cavitations are concerning for potential rupture.

HOSPITAL NAME

Harmony AH

Liver

INVOICE

14107

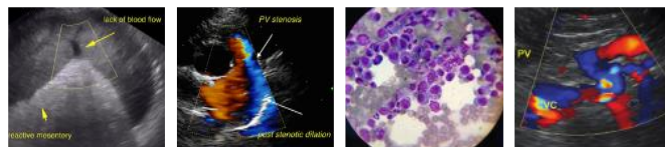
The **liver** images from right and left intercostal as well as subcostal views revealed subjectively normal liver size, contour, and structure. Some minor age-related parenchymal remodeling was noted but likely not clinically significant at this time. Vascular and biliary tracts were of normal volume and no evidence of congestion was noted. The gallbladder presented some dependent debris with essentially normal contour. The cystic and common bile ducts were normal. No overt evidence of active inflammatory, infiltrative or regenerative pathology was noted but should be paired with current or past LE elevations regarding any clinical significance to this presentation. The hepatic lymph nodes were unremarkable.

DATE

2/25/22

Gastrointestinal

Some minor retention of ingesta noted in the **stomach**. The small intestine and colon were unremarkable.



PATIENT *Pancreas*

Blue Flint The base and limbs of the **pancreas** were observed to be largely isoechoic to surrounding omental fat. Pancreatic duct and capsular contour were acceptably normal and parenchyma respected normal curvilinear patterns. No overt evidence of active inflammatory or neoplastic disease was noted.

SPECIES

Canine *Free Abdomen*

BREED

Terrier Mix *Other*

SEX

Intact female

AGE

11 years

WEIGHT

46 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Diane McFadden, RVT

HOSPITAL NAME

Harmony AH

INVOICE

14107

DATE

2/25/22

The **iliac lymph nodes** were mildly enlarged and slightly heterogeneous, measuring up to 2.0 cm x 0.6 cm.

A rapid view of the **heart** revealed normal right auricle and pericardium.

Second images of the **right inguinal area** revealed a complex, mixed hypoechoic mass, measuring 7.6 cm, enveloping the femur. Areas of cavitation noted. Strongly appears to be adhered to the periosteum and enveloping the bone.

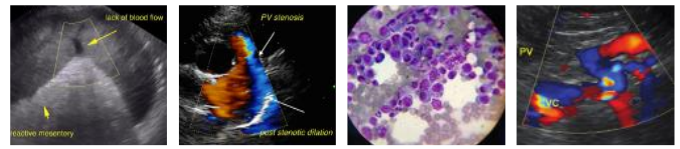
The region of the **uterus** was unremarkable.

ULTRASONOGRAPHIC FINDINGS

- Splenic masses with areas of cavitation, strongly suggestive of hemangiosarcoma. No evidence of rupture at the time of the sonogram.
- Upper leg mass, consistent with sarcoma. Hemangiosarcoma suspected. Similar changes in the spleen.
- Enlarged iliac lymph nodes
- Stomach ingesta
- Age-related renal and hepatic changes

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Ultrasound guided FNA of the parenchymal portions of the leg mass and the parenchymal portions of the splenic mass +/- iliac lymph nodes can be considered. I do not believe this to be a surgical solution in this patient, given the splenic masses and leg mass. Hemangiosarcoma is likely and iliac lymph node involvement is probable, however, FNA of the iliac lymph nodes could be considered. Oncological consultation recommended after cytology is achieved. Three-view chest radiographs warranted as well. Multicentric hemangiosarcoma suspected. If by chance the iliac lymph node is only reactive, and assuming that there are no metastatic lesions in the chest, technically limb removal and splenectomy could be considered from a surgical standpoint, however, given that this is likely hemangiosarcoma, micrometastasis spread is a strong potential, given the multicentric nature of the presentation.



PATIENT

Blue Flint

SPECIES

Canine

BREED

Terrier Mix

SEX

Intact female

AGE

11 years

WEIGHT

46 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Diane McFadden, RVT

HOSPITAL NAME

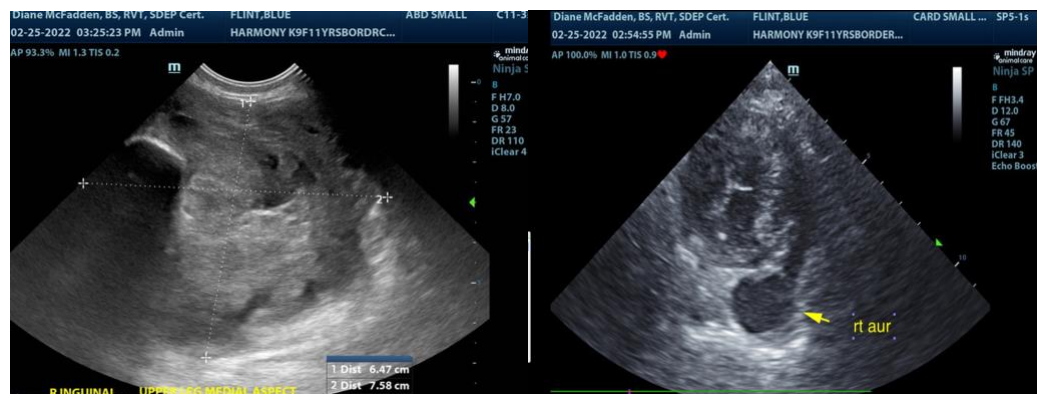
Harmony AH

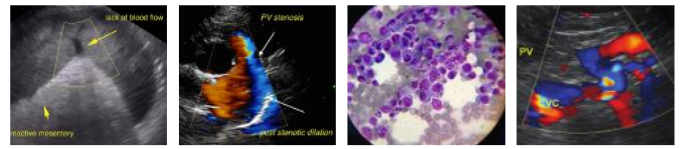
INVOICE

14107

DATE

2/25/22





PATIENT

Blue Flint

SPECIES

Canine

BREED

Terrier Mix

SEX

Intact female

AGE

11 years

WEIGHT

46 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Diane McFadden, RVT

HOSPITAL NAME

Harmony AH

INVOICE

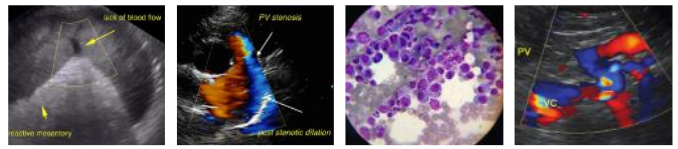
14107

DATE

2/25/22



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.



PATIENT

Blue Flint

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.

SPECIES

Canine

Eric Lindquist, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com
Info@SonoPath.com

BREED

Terrier Mix

SEX

Intact female

AGE

11 years

WEIGHT

46 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

**IMAGING
PERFORMED BY**

Diane McFadden, RVT

HOSPITAL NAME

Harmony AH

INVOICE

14107

DATE

2/25/22