



PATIENT

Rosco Cooper

PRESENTING CLINICAL SIGNS

History: Abdominal mass. No current meds.
Abnormal PE/Chem/CBC/UA Results: Albumin 2.6, HCT 30.7%.

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

BREED

English Bulldog

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 was noted. Ureteral papillae were normal.

SEX

Neutered male

The **kidneys** revealed normal size and structure, corticomedullary definition and ratio for this age. The cortices presented largely uniform texture with normal echogenic relationship to liver and spleen. Medullary structure differed distinctly from the cortex and no evidence of pelvic dilation was present. The capsules were acceptably uniform without significant irregularities. The right kidney measured 4.36 cm. The left kidney measured 6.59 cm.

AGE

12 years

WEIGHT

39.5 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 2.1 x 1.0 cm at the caudal pole and 0.86 cm at the cranial pole. The left adrenal gland measured 2.28 x 0.92 cm at the caudal pole and 0.64 cm at the cranial pole.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

Spleen

The **spleen** presented a separate 3.0 cm mass at the caudal pole with other heterogenous parenchymal changes. An undifferentiated 16 x 14.5 cm mass was noted with multi-focal cystic changes. This mass appears to be deriving from a folded portion of the cranial part of the spleen. Free fluid was noted in the abdomen likely owing to splenic rupture.

IMAGING PERFORMED BY

Kelly Vazquez, CVT

HOSPITAL NAME

North Jersey AH

Liver

The **liver** appears largely unremarkable with a uniform parenchyma and minor heterogenous changes that are expected for this age patient. The gallbladder presented acceptably thin walls with primarily anechoic content. The cystic and common bile ducts were normal.

REFERRING VET

Dr. Reidel

INVOICE

99410

Gastrointestinal

Examination of the **gastrointestinal tract** revealed a stomach and intestine free of stasis, of normal wall thickness, acceptable curvilinear mural detail, and peristaltic activity. Small and large intestine

DATE

12/9/21



PATIENT

demonstrated normal luminal chyme and stool consistency respectively. No obstructive or overt infiltrative disease was noted. No associated abnormal lymphatic activity was noted.

Rosco Cooper

SPECIES

Pancreas

Canine

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.

BREED

English Bulldog

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

SEX

A rapid echocardiogram was performed given the clinical status of the patient. The **left atrial** was normal in size based on 3 separate methods of LA evaluation. The cranial and caudal **mitral** valve leaflets presented normal linear structure, extension in systole, and union in diastole with normal kinesis. The **left ventricle** presented thicknesses with linear contour and was not dilated nor restricted. The **myocardium** presented normal echogenicity without subjective evidence of significant fibrotic or ischemic disease. **Contractility** of the ventricular walls was adequate and in normal range for this patient evidenced by the fractional shortening measurement and subjective evaluation of the different regions of the myocardium. The **left ventricular outflow** tract demonstrated normal laminar flow and subjective structural integrity. The **right atrium** and auricle revealed normal size, structure and content. No evidence of masses was noted. **Tricuspid** valvular assessment demonstrated adequate linear morphology and kinesis. The **right ventricle** was of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. **Pulmonary outflow** tract assessment revealed normal valve structure, laminar flow, and diameter (approx.1:1 pa/ao ratio). No visible **pericardial** or free pleura fluid was noted. The cranial **mediastinum** and **pericardial** and **extra-cardiac** regions were free of masses in the visible window.

Neutered male

AGE

12 years

WEIGHT

39.5 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Kelly Vazquez, CVT

HOSPITAL NAME

North Jersey AH

REFERRING VET

Dr. Reidel

INVOICE

99410

DATE

12/9/21

CANINE	MR	TR	LA/AO	LA/AO	FS	EF	EPSS
CARDIAC	VMAX	VMAX	(Boon method)	(Heart Base; Swe)	(%)	(%)	(cm)
PARAMETERS	(m/s)	(m/s)					
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
PATIENT			1.4	1.0	35		NM
CANINE	HR	AV	PV	BODY WEIGHT	LA	LVIDd	LVIDs
CARDIAC	(BPM)	VMAX	MAX		2D short axis Base view	Avg; 2D and m-mode short axis	Avg; 2D and m-mode short axis
PARAMETERS		(m/s)	(m/s)		(cm)	(cm)	(cm)
NORMAL PARAMETER	50-100	0.7-1.7	0.7-1.6				
PATIENT				39.5 lbs	2.5	2.6	



PATIENT

Rosco Cooper

SPECIES

Canine

BREED

English Bulldog

SEX

Neutered male

AGE

12 years

WEIGHT

39.5 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Kelly Vazquez, CVT

HOSPITAL NAME

North Jersey AH

REFERRING VET

Dr. Reidel

INVOICE

99410

DATE

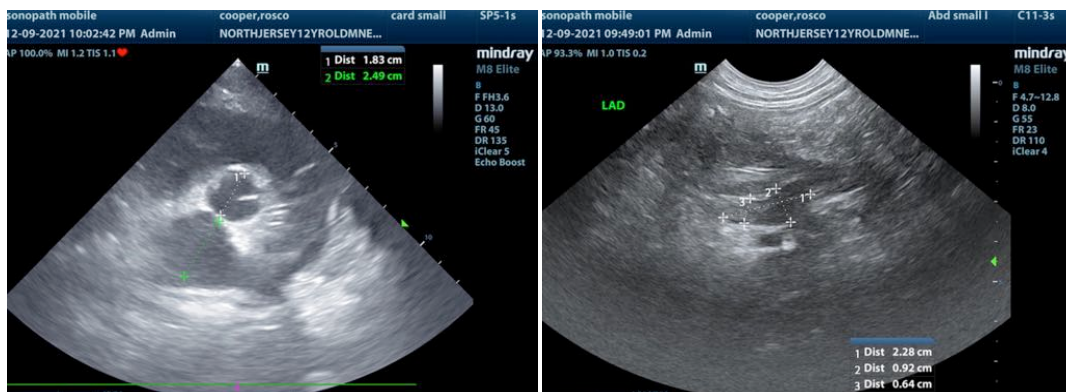
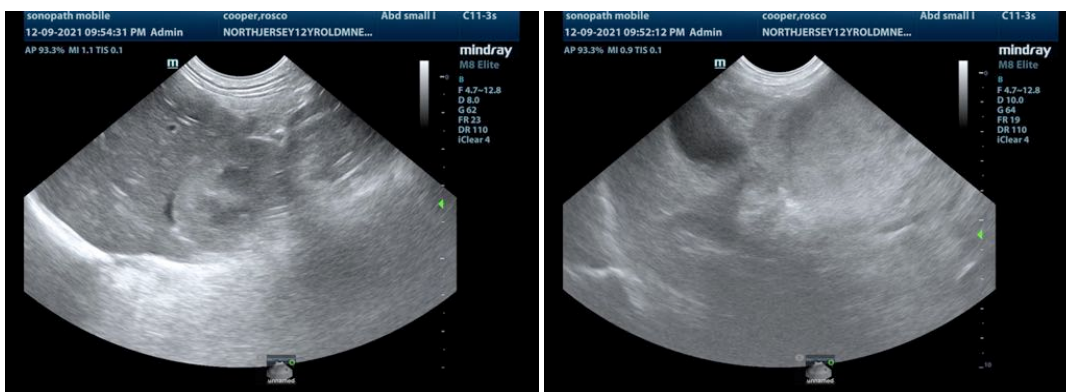
12/9/21

ULTRASONOGRAPHIC FINDINGS

Likely hemoabdomen with primary splenic mass and smaller separate mass. No obvious metastatic disease.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

I recommend three view chest radiographs followed by immediate exploratory surgery with liver inspection and biopsy as long as the radiographs are free of metastatic lesions. Hemangiosarcoma is likely, benign lesion is possible.





PATIENT

Rosco Cooper

SPECIES

Canine

BREED

English Bulldog

SEX

Neutered male

AGE

12 years

WEIGHT

39.5 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Kelly Vazquez, CVT

HOSPITAL NAME

North Jersey AH

REFERRING VET

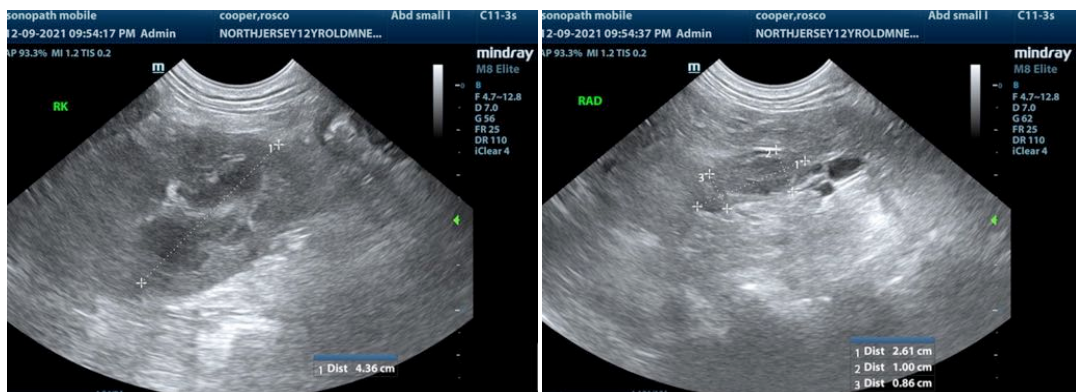
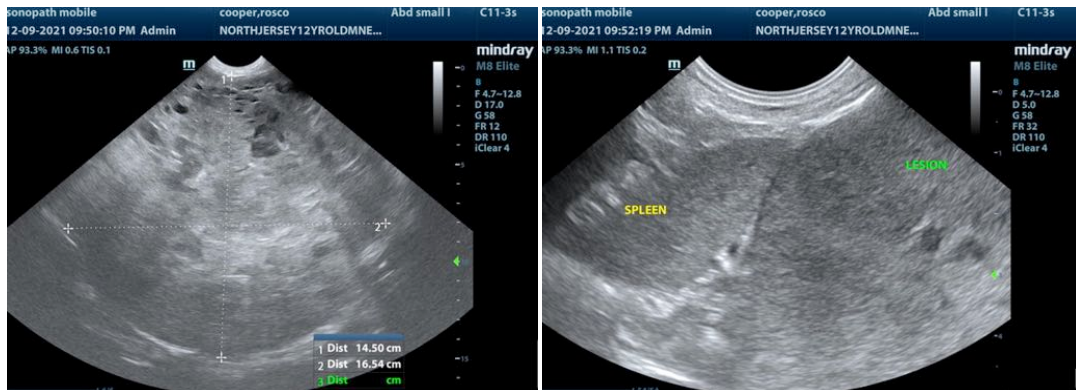
Dr. Reidel

INVOICE

99410

DATE

12/9/21



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.

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