



PATIENT PRESENTING CLINICAL SIGNS

Salem Gallo History: Pleural effusion, no murmur

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE HEART

Canine

BREED

Pitbull Mix

SEX

Spayed female

AGE

4 years

The echocardiogram in this patient demonstrated normal **left atrial** 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). Arrhythmogenic activity was noted. A large amount of pleural effusion was noted and is not cardiogenic. No overt masses were present.

WEIGHT

41.7 lbs

CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (Boon method)	LA/AO (Heart Base;)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
PATIENT			1.15		30		0.1
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT	LA (2D short axis Base view) (cm)	LVIDd (Avg; 2D and m-mode short axis) (cm)	LVIDs (Avg; 2D and m-mode short axis) (cm)
NORMAL PARAMETER	50-100	0.7-1.7	0.7-1.6	BELOW	BELOW	BELOW	BELOW
PATIENT	90		1.0	41.7 lbs	2.4	3.6	

INTERPRETED BY

Eric Lindquist, DMV DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Valeryia Shumskaya

HOSPITAL NAME

North Haledon VC

REFERRING VET

Dr. Mansfield

INVOICE

44740

DATE

6/12/23

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

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.



PATIENT

Salem Gallo

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 5.41 cm. The left kidney measured 5.25 cm.

SPECIES

Canine

Adrenal Glands

BREED

Pitbull Mix

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.

SEX

Spayed female

Spleen

AGE

4 years

The **spleen** presented a smooth homogeneous parenchyma hyperechoic to liver and renal cortical parenchyma. The capsule was smooth without noticeable expansion or deviation from within the spleen or adjacent pathology. The splenic vasculature demonstrated normal volume without signs of congestion or thrombosis. No sonographic evidence of acute or chronic inflammatory, neoplastic, or infarctual changes was noted.

WEIGHT

41.7 lbs

Liver

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

The **liver** images submitted revealed subjectively normal liver size, contour, and structure. Parenchymal echogenicity was naturally coarse and hypoechoic to the spleen. The hepatic veins were dilated in this patient. This may be owing to obstructive disease in the caudal mediastinum. There was no evidence of right-sided heart failure or pericardial effusion noted. The gallbladder presented acceptably thin walls with primarily anechoic content. The cystic and common bile ducts were normal. No pathological hepatic lymphadenopathy was evident. No overt structural evidence of inflammatory, infiltrative or regenerative pathology was evident. The transdiaphragmatic approach to the caudal mediastinum revealed some irregular tissue. This may be related to potential neoplastic or obstructive process in the erosive process in the thoracic duct given the pleural effusion. Areas of lung consolidation was noted at the heart base.

IMAGING PERFORMED BY

Valeryia Shumskaya

HOSPITAL NAME

North Haledon VC

Gastrointestinal

REFERRING VET

Dr. Mansfield

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

INVOICE

44740

Pancreas

DATE

6/12/23

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.



PATIENT

Salem Gallo

SPECIES

Canine

BREED

Pitbull Mix

SEX

Spayed female

AGE

4 years

WEIGHT

41.7 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Valeryia Shumskaya

HOSPITAL NAME

North Haledon VC

REFERRING VET

Dr. Mansfield

INVOICE

44740

DATE

6/12/23

ULTRASONOGRAPHIC FINDINGS

Normal abdomen, no related abdominal disease.

Dilated hepatic veins.

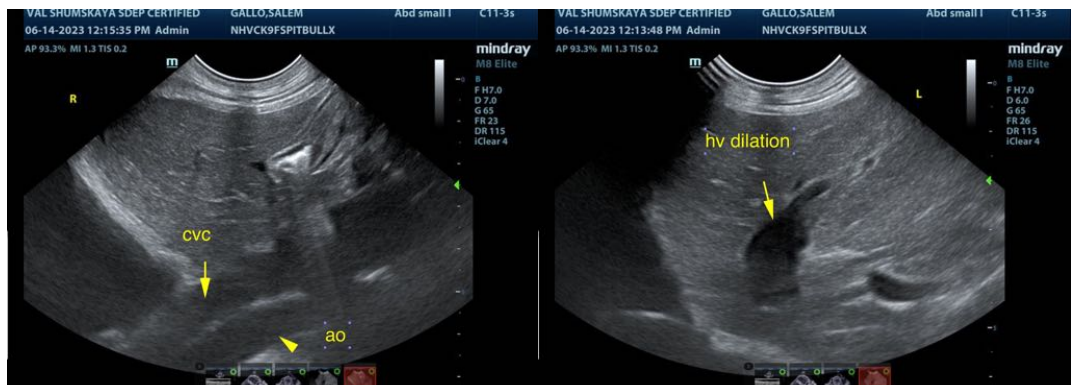
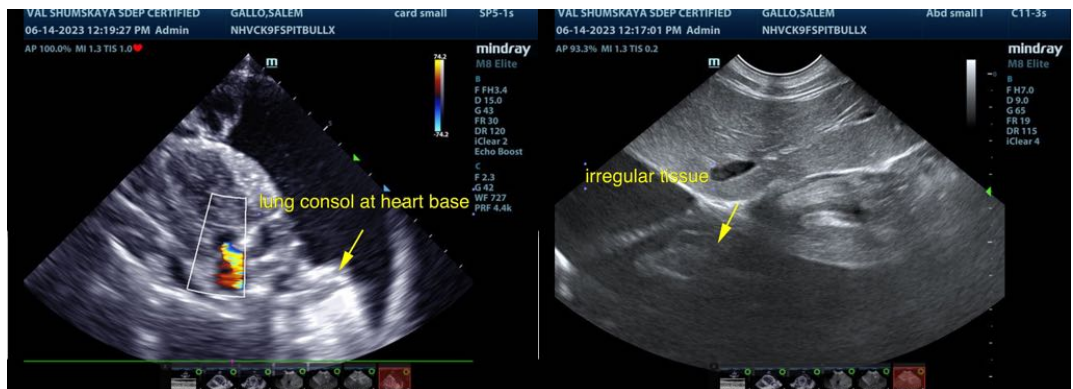
Strong concern for neoplastic process in the region of the thoracic duct or deriving from the thoracic duct.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

I recommend cytospin of the chylous effusion obtained in this patient with immediate slide preparation to assess for neoplastic cells such as lymphoma. Thoracocentesis with drainage followed by CT with contrast is recommended to examine the area of the caudal mediastinum further i.e. the region of the thoracic duct and vena cava. CT with contrast would be the best option in this patient. Pleural drainage could be performed at the time of CT.

ABOUT SONOPATH CT SERVICES:

SonoPath CT Services are offered at the SonoPath Imaging and Veterinary Education Center, 141 Main St (rt 206), Andover, New Jersey, a 20-minute drive west on route 80/206 North from the route 80/287 interchange/Parsippany, New Jersey. More information can be found at <https://sonopath.com/services/vetimaging/>





PATIENT

Salem Gallo

SPECIES

Canine

BREED

Pitbull Mix

SEX

Spayed female

AGE

4 years

WEIGHT

41.7 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUS

IMAGING PERFORMED BY

Valeryia Shumskaya

HOSPITAL NAME

North Haledon VC

REFERRING VET

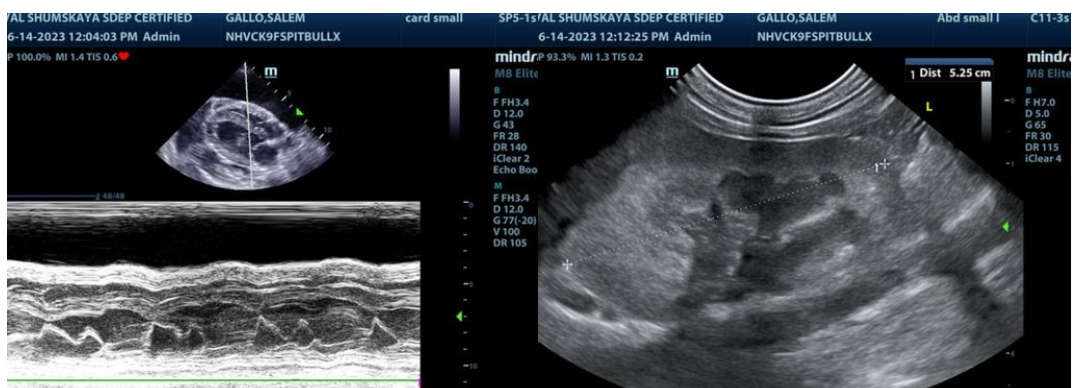
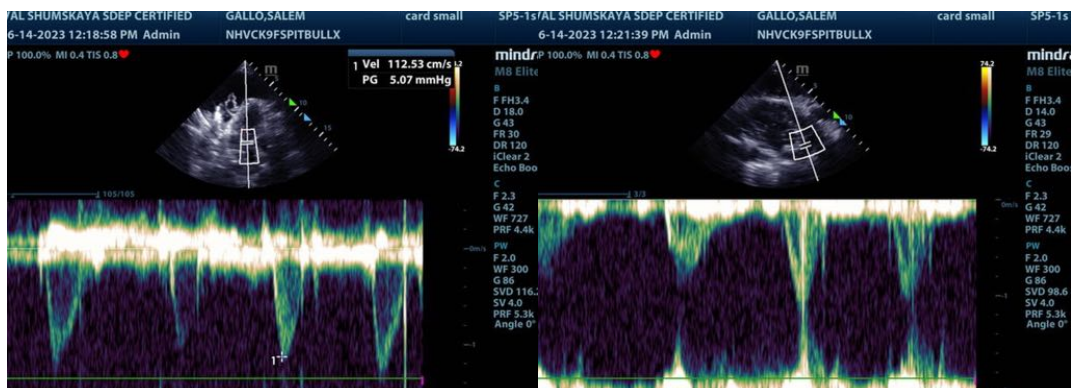
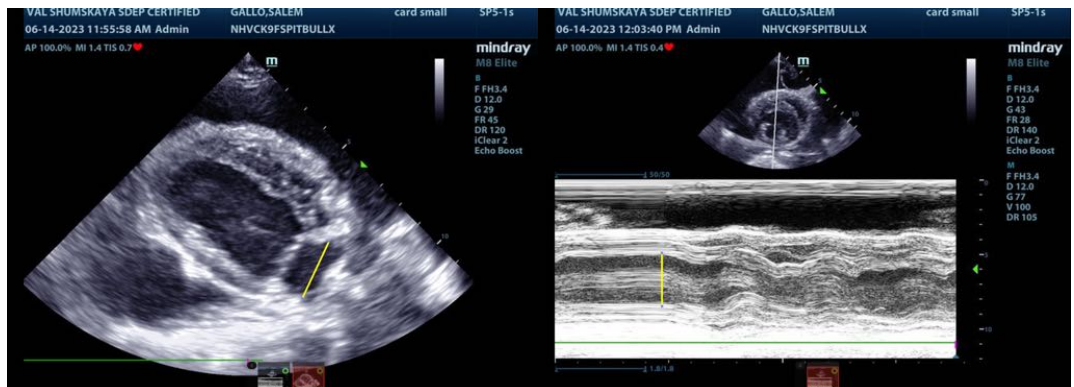
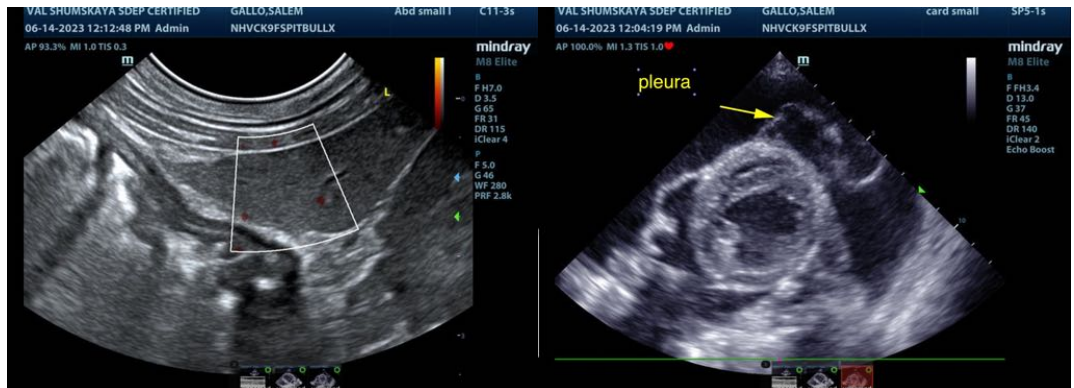
Dr. Mansfield

INVOICE

44740

DATE

6/12/23





PATIENT

Salem Gallo

SPECIES

Canine

BREED

Pitbull Mix

SEX

Spayed female

AGE

4 years

WEIGHT

41.7 lbs



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.

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

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Valeryia Shumskaya

HOSPITAL NAME

North Haledon VC

REFERRING VET

Dr. Mansfield

INVOICE

44740

DATE

6/12/23