



PATIENT

Coco Bella Forbes

SPECIES

Canine

BREED

Beagle

SEX

Spayed Female

AGE

8 years

WEIGHT

31.7 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Jessica Miller, RDMS

HOSPITAL NAME

Legacy AH

REFERRING VET

Dr. Pontenzone

INVOICE

99387

DATE

4/19/22

PRESENTING CLINICAL SIGNS

Hx of HW- treated years ago- cardiomegaly. Hepatomegaly, potential splenomegaly. Current meds: Vetriscience cardio strength, Milk thistle supplement
Abnormal PE/Chem/CBC/UA Results: Pending (Hx of mild hepatopathy)

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 separate methods of LA evaluation. Minor **mitral** valve insufficiency was noted with a centralized jet that measured 5.0 m/sec. 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. Trivial **tricuspid** insufficiency was noted. 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.

CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (Boon method)	LA/AO (Heart Base; Swe)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.3	28-40	40-100	<0.6
PATIENT			NM	1.4	33	64	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				
PATIENT		1.33	1.25	31.7 lbs	3.8 max	2.84	

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

Coco Bella Forbes

SPECIES

Canine

BREED

Beagle

SEX

Spayed Female

AGE

8 years

WEIGHT

31.7 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Jessica Miller, RDMS

HOSPITAL NAME

Legacy AH

REFERRING VET

Dr. Pontenzone

INVOICE

99387

DATE

4/19/22

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 left kidney measured 5.27 cm.

Adrenal Glands

Both **adrenal glands** were visualized and recognized as having largely normal shape, size, position and acceptable echogenicity for this age group and breed. Some heterogeneity was noted within the adrenal parenchyma without concerning capsular distortion. These changes are likely age related but should be monitored by sonogram should the patient be suspected of having adrenal disease. The right adrenal gland measured 1.85 x 0.62 cm at the caudal pole and 0.83 cm at the cranial pole. A hyperechoic nodule was noted at the cranial pole of the right adrenal gland and measured 0.3 cm. The left adrenal gland measured 2.65 x 0.55 cm at the cranial pole and 0.48 cm at the caudal pole.

Spleen

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.

Liver

The **liver** was uniformly swollen with minor, excessive gallbladder debris and over distension with dependent and suspended bile without evidence of overt mucocele formation. However, excessive sludge was present. A ventral gallbladder wall nodule was noted and measured 0.4 cm. The liver presented coarse architecture with mildly increased portal markings and subtle, mixed echogenic changes. Occasional, hypoechoic nodule was noted and measured 1.2 cm. This is consistent with vacuolar hepatopathy and some level of remodeling and history of inflammatory component. There was no overt suspicion of neoplasia.

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

Pancreas

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

Coco Bella Forbes

SPECIES

Canine

BREED

Beagle

SEX

Spayed Female

AGE

8 years

WEIGHT

31.7 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Jessica Miller, RDMS

HOSPITAL NAME

Legacy AH

REFERRING VET

Dr. Pontenzone

INVOICE

99387

DATE

4/19/22

ULTRASONOGRAPHIC FINDINGS

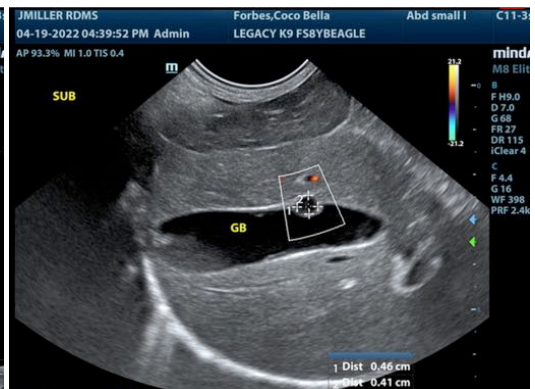
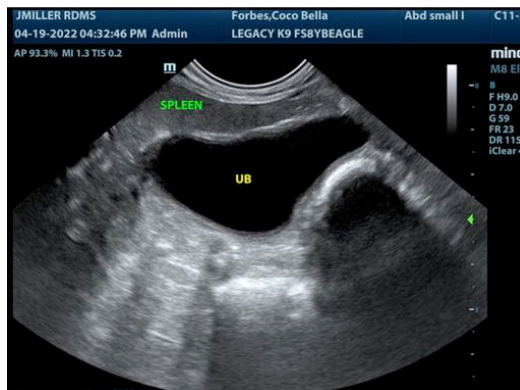
Stage B1 valvular disease, compensated at this time. Trivial tricuspid insufficiency.

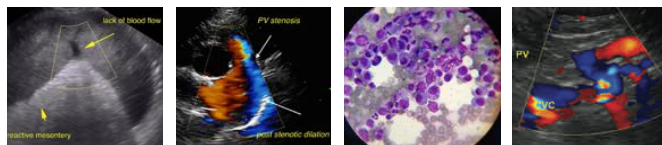
Vacuolar hepatopathy with nodular hyperplasia liver pattern, subjectively benign.

Gallbladder nodule, likely a mural cyst.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

FNA of the liver nodules would be ideal.





PATIENT

Coco Bella Forbes

SPECIES

Canine

BREED

Beagle

SEX

Spayed Female

AGE

8 years

WEIGHT

31.7 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

**IMAGING
PERFORMED BY**

Jessica Miller, RDMS

HOSPITAL NAME

Legacy AH

REFERRING VET

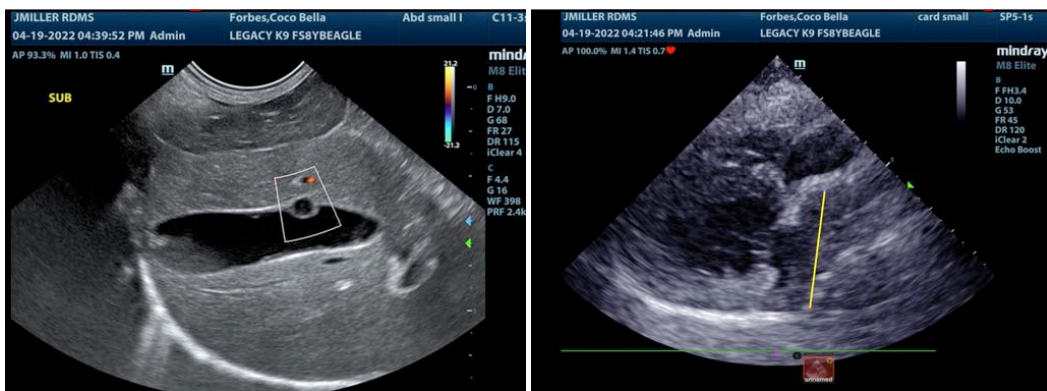
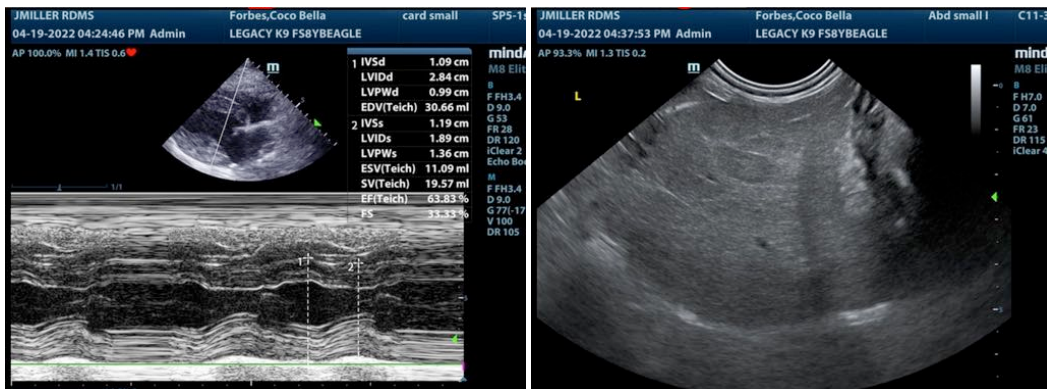
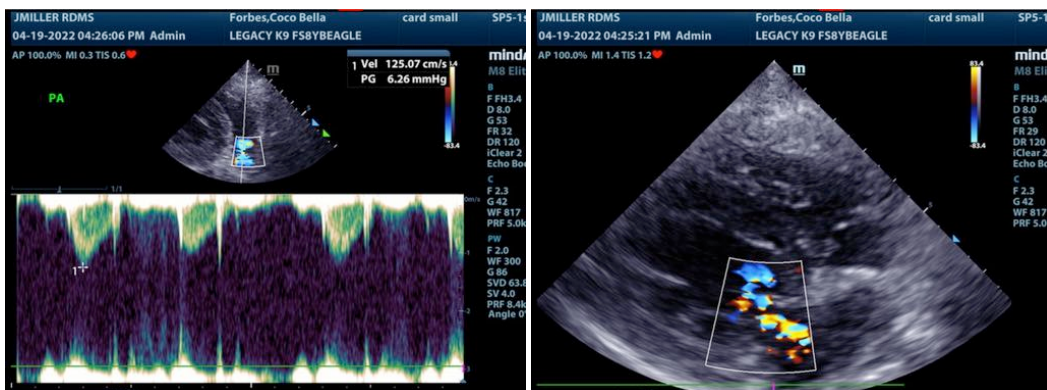
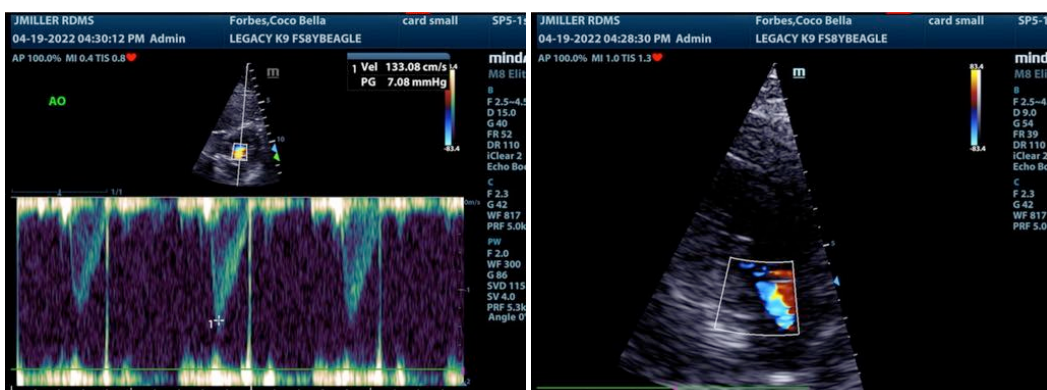
Dr. Pontenzone

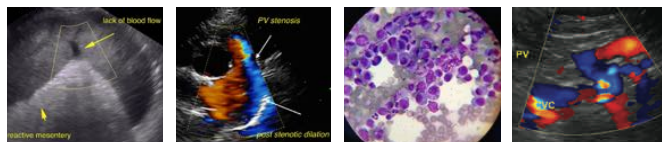
INVOICE

99387

DATE

4/19/22





PATIENT

Coco Bella Forbes

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.

SPECIES

Canine

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

BREED

Beagle

SEX

Spayed Female

AGE

8 years

WEIGHT

31.7 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

**IMAGING
PERFORMED BY**

Jessica Miller, RDMS

HOSPITAL NAME

Legacy AH

REFERRING VET

Dr. Pontenzone

INVOICE

99387

DATE

4/19/22