



PATIENT PRESENTING CLINICAL SIGNS

Goldie Wilday No murmur, grain free diet

SPECIES AST- 83 (15-66), a- 4.3 (0.5- 1.6), glucose 50, H.G.-11.2 (12.1-20.3)

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE HEART & ABDOMEN

BREED

Golden Doodle

SEX

Neutered Male

AGE

9 Years 8 Months

WEIGHT

62.2 Pounds

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	5.2	2.0	1.2	1.5	15	33	0.35
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT (kg)	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	125 Variable	.90	.64	--	4.41	3.5	--

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

HOSPITAL NAME

Andover AH

REFERRING VET

Dr. Harvey Hummez

INVOICE

16877

DATE

8/16/22

Cardiac Presentation

The cardiac presentation presented relatively normal volumes with mild left ventricular dilation. Hypocontractility was noted, yet EPSS was normal. Myocardial insufficiency was present yet significant arrhythmia was present during the exam. Minor tricuspid insufficiency was noted. Mitral and tricuspid insufficiency noted. Aortic outflow velocity was subnormal owing to myocardial insufficiency. No pericardial or pleural effusion was noted. No evidence of neoplasia.

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 were noted. Ureteral papillae were normal.

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 7.5 cm. The right kidney measured 7.28 cm.

Adrenal Glands

The **left adrenal gland** was subnormal in size, measuring 1.83 cm x 0.27 cm.

The **right adrenal gland** was subnormal in size, measuring 1.79 cm x 0.4 cm.



PATIENT

Goldie Wilday

SPECIES

Canine

BREED

Golden Doodle

SEX

Neutered Male

AGE

9 Years 8 Months

WEIGHT

62.2 Pounds

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

**IMAGING
PERFORMED BY**

Eric Lindquist, DMV
DABVP, Cert. IVUSS

HOSPITAL NAME

Andover AH

REFERRING VET

Dr. Harvey Hummez

INVOICE

16877

DATE

8/16/22

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 were noted.

Liver

The **liver** images submitted revealed subjectively normal liver size, contour, and structure. Parenchymal echogenicity was naturally coarse and hypoechoic to the spleen. Vascular and biliary tracts were of normal volume with no evidence of congestion. 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.

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.

ULTRASONOGRAPHIC FINDINGS

- Subnormal adrenal size, suspect Addisons disease
- Arrythmia

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Myocardial insufficiency without significant volume overload - Differentials include Addison's induced hypocontractility and arrhythmia, myocarditis, nutritional cardiomyopathy, and less likely emerging DCM. Pimobendan indicated at 0.3 mg/kg BID, Dex XP at 0.25 mg/kg. ACTH stim prior to Dexmethasone injection. STAT EKG indicated.



PATIENT

Goldie Wilday

SPECIES

Canine

BREED

Golden Doodle

SEX

Neutered Male

AGE

9 Years 8 Months

WEIGHT

62.2 Pounds

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

HOSPITAL NAME

Andover AH

REFERRING VET

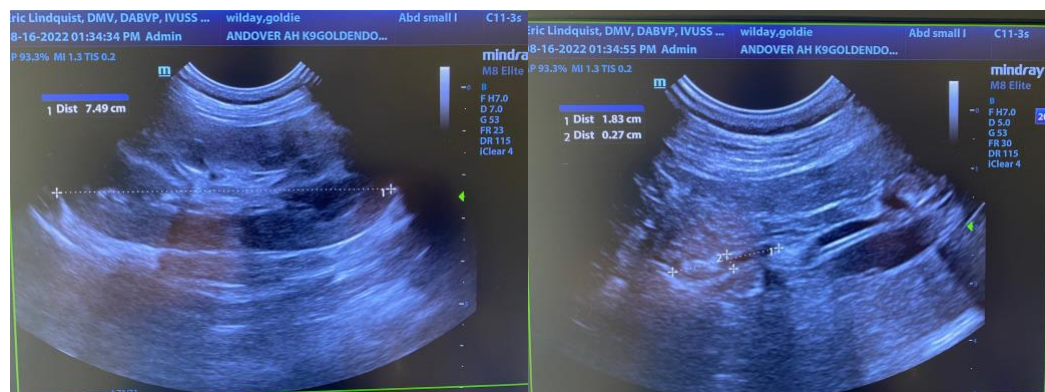
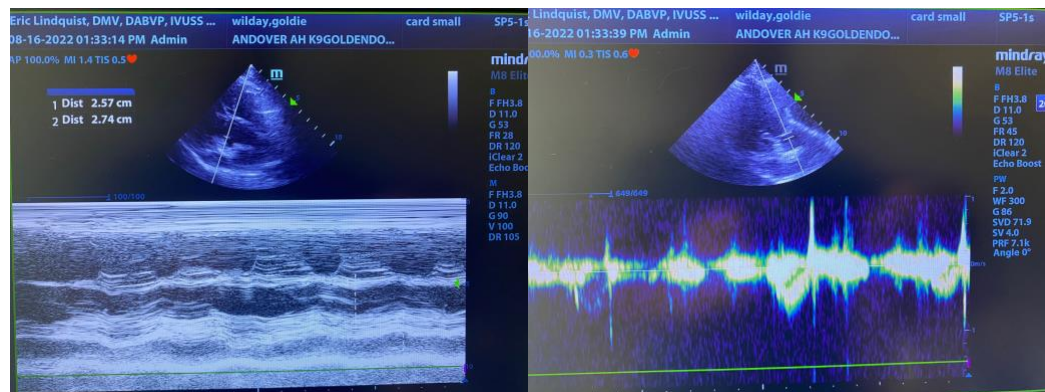
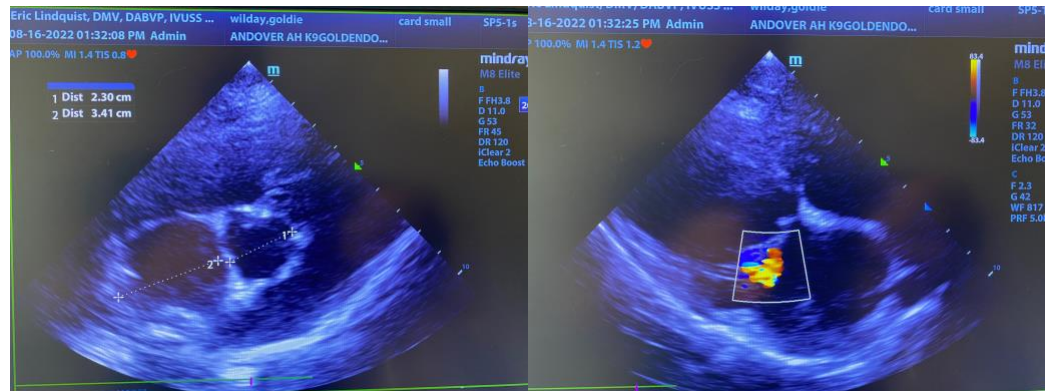
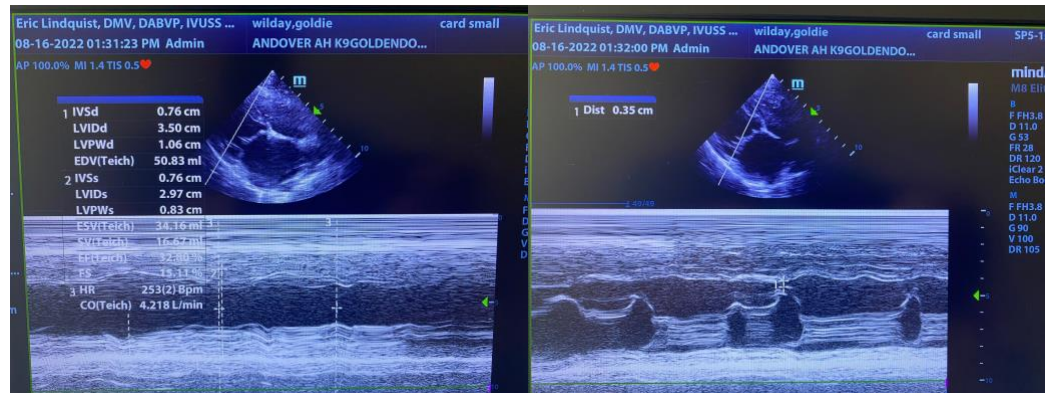
Dr. Harvey Hummez

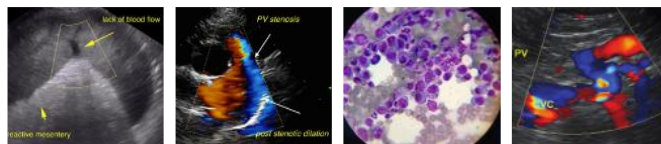
INVOICE

16877

DATE

8/16/22





PATIENT

Goldie Wilday

SPECIES

Canine

BREED

Golden Doodle

SEX

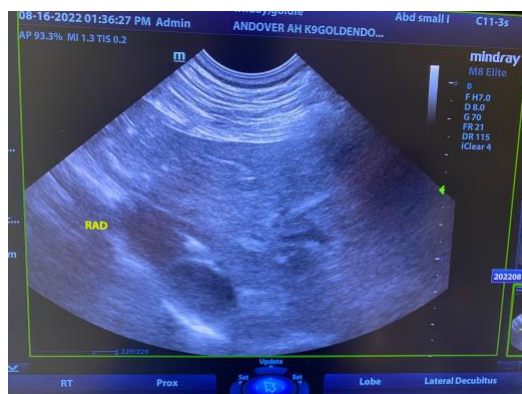
Neutered Male

AGE

9 Years 8 Months

WEIGHT

62.2 Pounds



INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

HOSPITAL NAME

Andover AH

REFERRING VET

Dr. Harvey Hummez

INVOICE

16877

DATE

8/16/22

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