



PATIENT PRESENTING CLINICAL SIGNS

PATIENT Emmi Gilbert
SPECIES Canine
BREED Golden Retriever
SEX Spayed Female
AGE 12 Years
WEIGHT 64.4 Pounds

Presented for Ataxia. EENT: MM pale pink, moist. CRT <2 seconds. Clear OU, Clean AU. Nares free of any discharge. ORAL: Moderate tartar and gingivitis present. INTEGUMENT: No external parasites observed. No evidence of skin disease at this time. LYMPH NODES: Lymph nodes are small and of normal texture CIRCULATORY: No murmur or arrhythmia ausculted. Femoral pulses are strong and synchronous. RESPIRATORY: Eupneic. Lungs clear bilaterally. No cough on tracheal palpation. DIGESTIVE: Abdomen soft/benign. No masses palpated. GENITOURINARY: No significant findings. MUSCULOSKELETAL: Ambulatory x all 4. Stiff pelvic gait NEURO: No neurologic deficits noted at this time. OTHER:

Abnormal PE/Chem/CBC/UA Results: RBC 3.97 M/ μ L 5.65 - 8.87 LOW HCT 25.1% 37.3 - 61.7 LOW HGB 9.5 g/dL 13.1 - 20.5 LOW RETIC-HGB 18.0 pg 22.3 - 29.6 LOW BAND * Suspected MONO * 1.16 K/ μ L 0.16 - 1.12 HIGH EOS 0.01 K/ μ L 0.06 - 1.23 LOW PLT 88 K/ μ L 148 - 484 LOW MPV 13.6 fL 8.7 - 13.2 HIGH PCT 0.12% 0.14 - 0.46 LOW SDMA 35 μ g/dL 0 - 14 HIGH CREA 2.7 mg/dL 0.5 - 1.8 HIGH BUN 68 mg/dL 7 - 27 HIGH ALT 164 U/L 10 - 125 HIGH AST 147 U/L 0 - 50 HIGH ALKP 142 U/L 23 - 212 Cl 106 mmol/L 109 - 122 LOW TT4 0.7 μ g/dL 1.0 - 4.0 LOW

Irregular spleen and liver on radiographs. No right kidney noted. Metastatic alveolar pattern noted on chest radiograph.

ULTRASONOGRAPHIC EXAMINATION OF THE HEART & ABDOMEN

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	<1.6	28-40	40-100	<0.6
PATIENT			1.0				0.1
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		1.0	0.56		3.44		

INTERPRETED BY
Eric Lindquist, DMV,
DABVP, Cert. IVUSS

IMAGING PERFORMED BY
Jenna Walsh, CVT

HOSPITAL NAME
The Ark VC

REFERRING VET
Dr. Sangl

DATE
1/3/22

INVOICE
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Cardiac Presentation

The right auricle revealed a 2.48 cm x 2.29 cm mass with approximately 3.0 cm of pericardial effusion, creating a tamponade effect with collapse of the right auricle. The mass was located at the junction of the right auricle with the right ventricular free wall. This explains the passive congestion liver pattern.

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



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was present. No evidence of inflammatory or neoplastic changes were noted. Ureteral papillae were normal. The pelvic urethra was imaged 2.0 cm beyond the cystourethral junction.

SPECIES

Canine

The **left kidney** was larger than normal and mildly swollen. Vascularity was normal. The left kidney measured 7.0 cm.

The **right kidney** was not noted.

Adrenal Glands

BREED

Golden Retriever

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 left adrenal gland measured 2.94 cm x 0.32 cm at the cranial pole and 0.36 cm at the caudal pole.

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Spleen

The **spleen** presented an expansive mixed echogenic mass measuring 5.13 cm. Free fluid noted in the abdomen, associated with the splenic mass.

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Liver

The **liver** was swollen and irregular with multiple target lesions, strongly suggestive for metastatic disease. The gallbladder was double layered. An overt left cranial liver mass was noted. Both right and left-sided target type nodules noted. Passive congestion pattern noted with dilated hepatic veins. The vena cava measured 1.3 cm versus the aorta at 1.0 cm.

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Gastrointestinal

The **stomach** was filled with ingesta. The small intestine and colon were unremarkable.

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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.

IMAGING PERFORMED BY

Jenna Walsh, CVT

Free Abdomen

Free fluid noted in various portions of the abdomen.

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ULTRASONOGRAPHIC FINDINGS

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- Multicentric hemangiosarcoma pattern with junctional right auricular/right ventricular free wall mass and pericardial effusion with tamponade effect.
- Splenic mass
- Target metastatic hepatic pattern
- Concurrent right renal aplasia with compensatory hypertrophy of the left kidney

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

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Immediate chemotherapeutic intervention recommended. However, prognosis is poor given the extent of the pathology.



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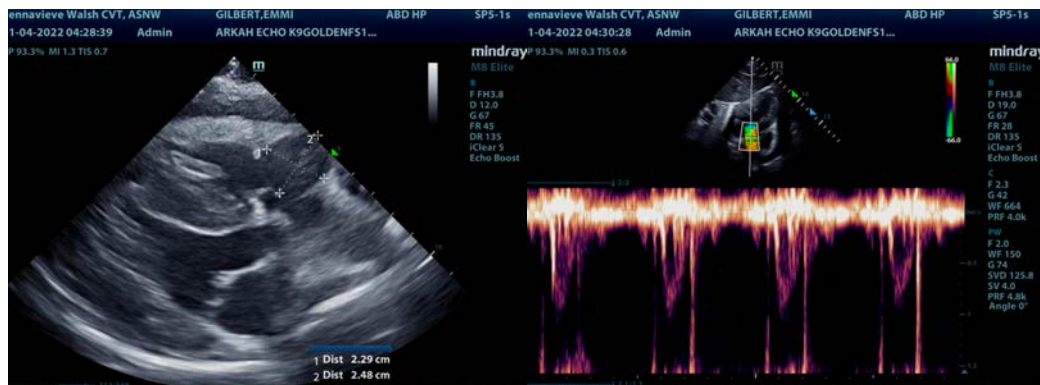
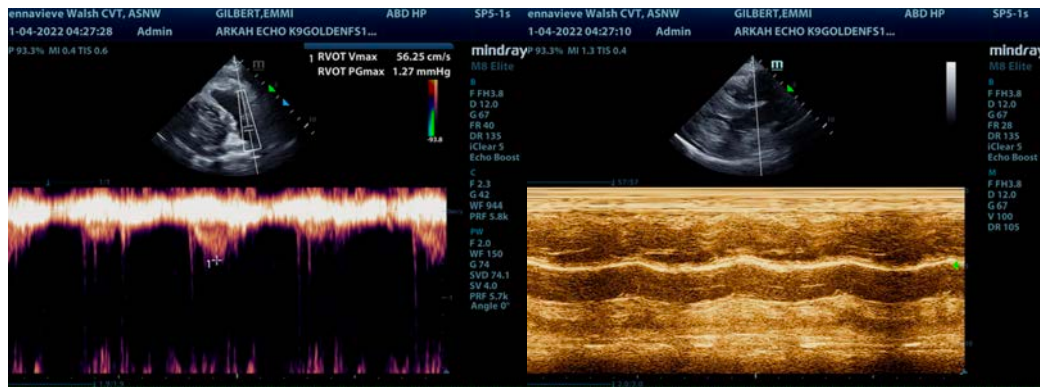
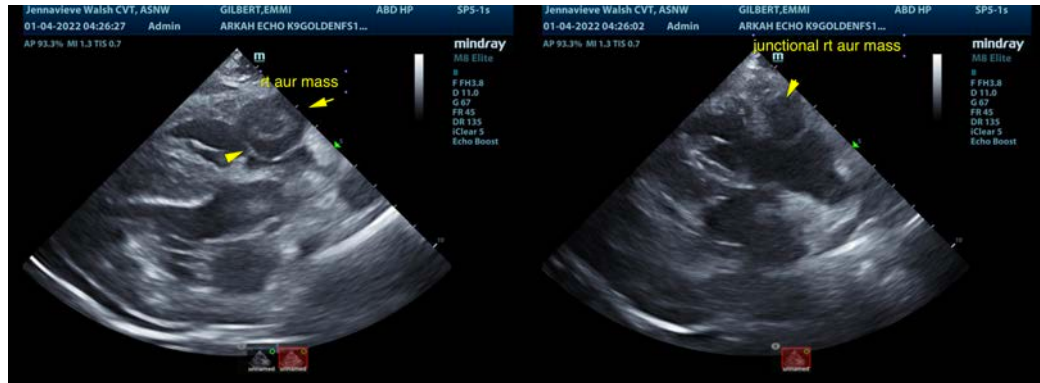
Dr. Sangl

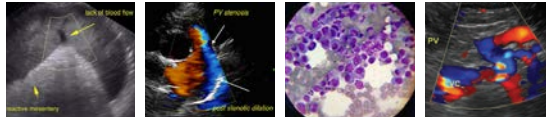
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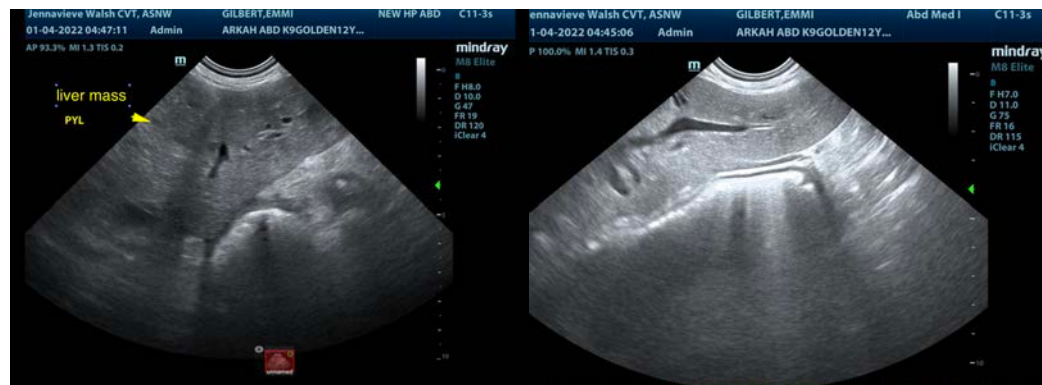
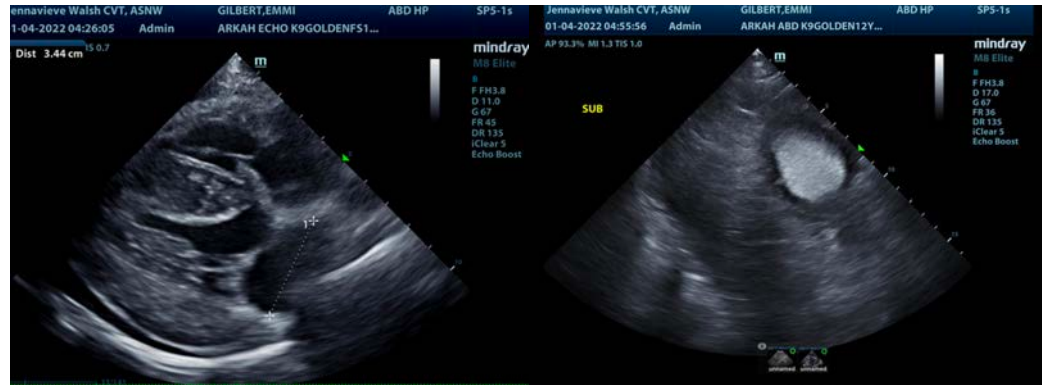
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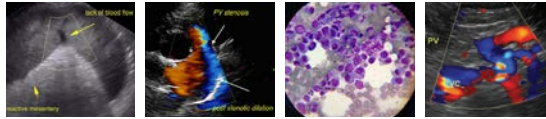
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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.

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