



PATIENT PRESENTING CLINICAL SIGNS

Siena Peters-Carr

In the last 3 weeks has been less active and abdomen has appeared to be swollen. Eating less. On exam, the abdomen is distended and there appears to be a fluid wave. Her abdomen is difficult to palpate, but no obvious masses felt.

SPECIES

Canine

Abnormal PE/Chem/CBC/UA Results: Her lab work was unremarkable - her potassium was slightly high at 5.6, and she has rod bacteria in her urine with an inflammatory sediment. Current Medications Enrofloxacin 136 mg 1 1/2 PO once daily Radiographic Findings We will send radiographs, although we are not able to send in dicom format currently. The liver silhouette is markedly enlarged despite the normal liver parameters. There is also fluid present.

BREED

Golden Retriever

SEX

Spayed Female

AGE

12 Years

WEIGHT

89.2 Pounds

INTERPRETED BY

Eric Lindquist, DMV

DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Sara Hansen

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

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			1.1	1.2	37	68	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	BELOW	BELOW	BELOW	BELOW
PATIENT					4.7	4.26	

Cardiac Presentation

The cardiac presentation revealed severe tamponade effect with collapse in the right auricle. Severe amount of pericardial effusion noted. Arrhythmogenic activity noted. A large right auricular mass was noted measuring approximately 5.0 cm occupying the pericardial space. Passive congestion pattern noted in the liver.

HOSPITAL NAME

Amazon Park AC

REFERRING VET

Dr. Jones

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.

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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.



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The capsules were acceptably uniform without significant irregularities. The kidneys measured 7.4 cm each.

Adrenal Glands

SPECIES

Canine

The **left adrenal gland** was 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 4.0 cm x 0.88 cm.

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The region of the **right adrenal gland** was imaged, no evident pathology.

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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.

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Liver

WEIGHT

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The **liver** revealed a passive congestion pattern with dilated hepatic veins and swollen parenchyma. The gallbladder and common bile duct were unremarkable. Increased portal markings present.

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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.

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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.

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Other

Large amount of ascites noted.

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ULTRASONOGRAPHIC FINDINGS

- Right auricular mass with severe pericardial effusion, tamponade effect, and secondary ascites
- Ascites owing to passive congestion

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Palliative therapy with pericardiocentesis could be considered. No evidence of primary abdominal pathology present. No evidence of concurrent neoplasia noted in the abdomen. Focus on cardiac pathology.

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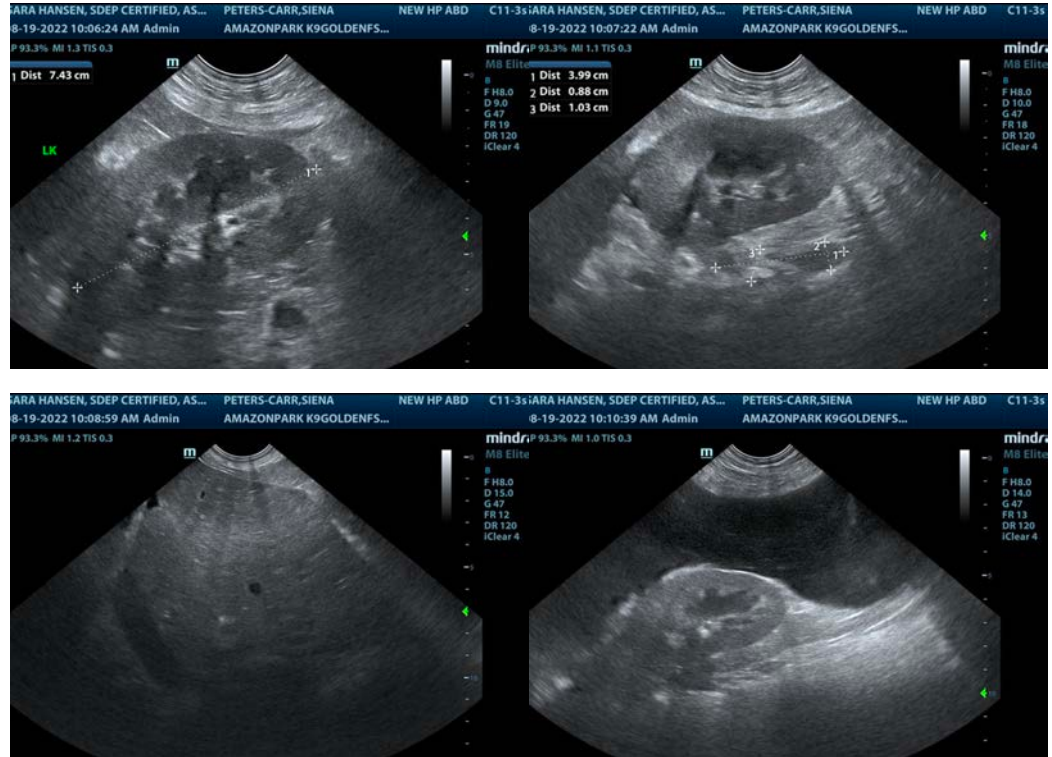
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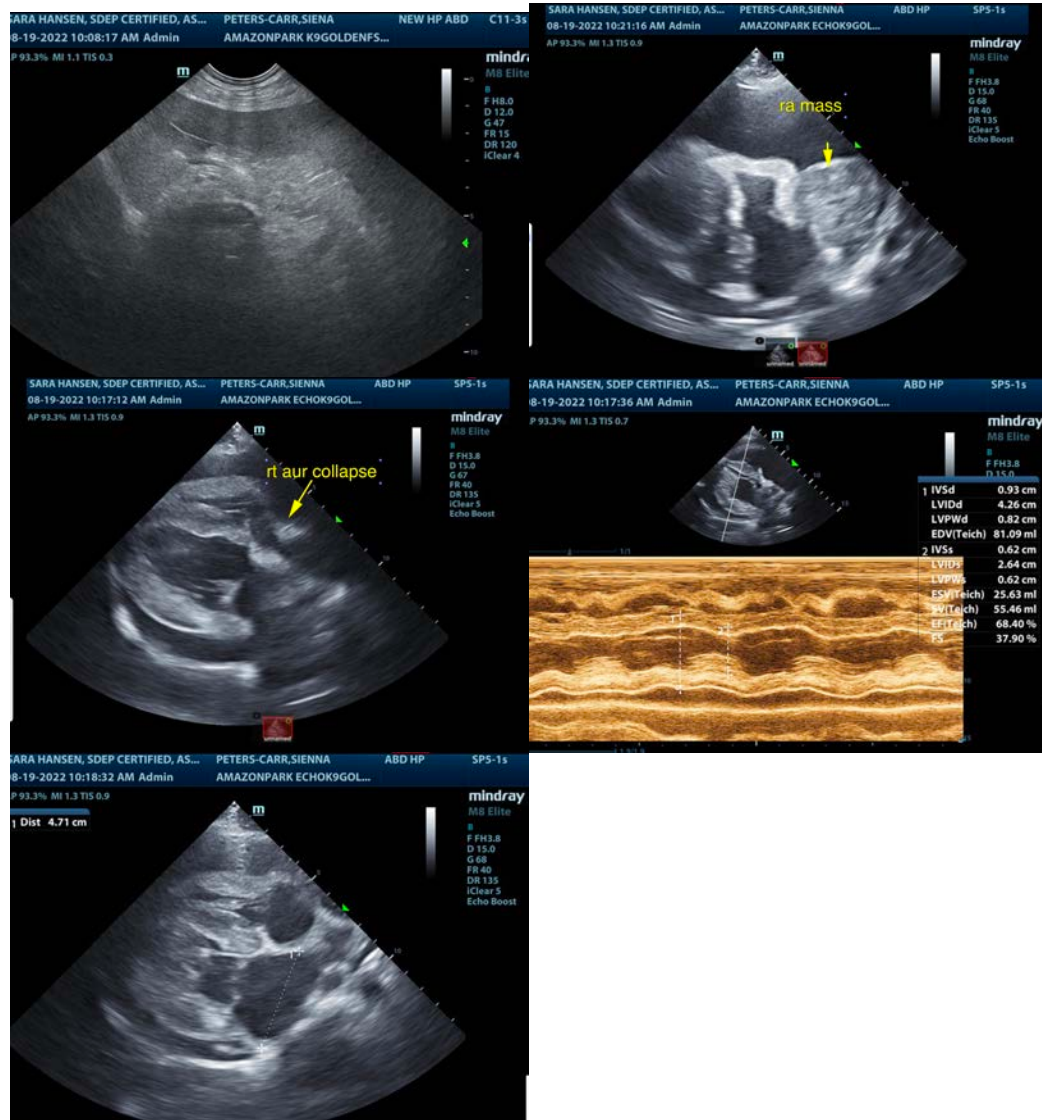
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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, CEO of SonoPath.com

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