



PATIENT

Hunter Hassan

SPECIES

Canine

BREED

Boxer

SEX

M/N

AGE

10

WEIGHT

34 kg

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Dr. Belan

HOSPITAL NAME

Legacy VC

REFERRING VET

Dr. Jajouei

INVOICE

15128

DATE

10/7/22

PRESENTING CLINICAL SIGNS

Weight loss last 60 days Bright and alert Grade 1 murmur
Abnormal PE/Chem/CBC/UA Results: Non diagnostic

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			1.5	1.42	37.5	68.0	0.54
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	162	1.4	1.0		4.2	4.1	

Cardiac Presentation

Mild to moderate volume pericardial effusion with subjective diastolic collapse of the right atrial wall, consistent with cardiac tamponade, was present. A mildly nonhomogeneous, indistinctly demarcated lesion in the area of the heart base, specifically right atrium and auricle, measuring approximately 3.0-4.0 cm in diameter, was present. LV function is adequate. The left atrium is normal in diameter. Overall normal right atrial diameter with mildly prominent right ventricle size compared to the left ventricle, was noted. Pulmonic and aortic valves are normal in appearance with normal LVOT / RVOT velocities, respectively. Mild thickening of the mitral valve with mild, primarily centralized, MR was present. No overt arrhythmia.

ULTRASONOGRAPHIC FINDINGS

- Indistinctly demarcated nonhomogeneous heart base mass in the area of the right atrium / auricle
- Pericardial effusion and secondary emerging cardiac tamponade

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The indistinctly demarcated heart base mass is most consistent with neoplastic criteria with hemangiosarcoma probable compared to other tumor types, i.e., chemodectoma, or other. The long-term prognosis with probable hemangiosarcoma is poor.



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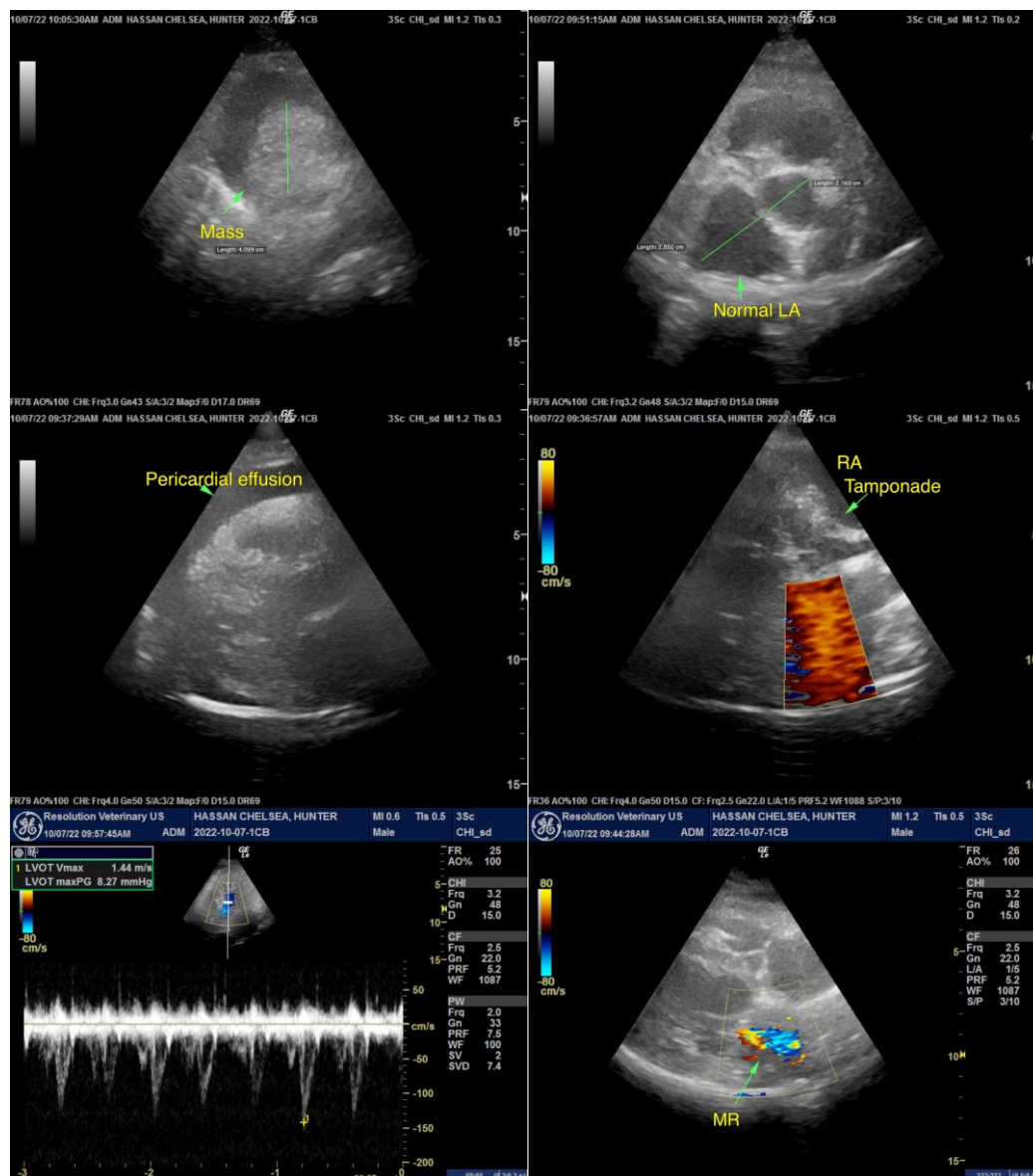
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Pericardiocentesis could be considered to alleviate cardiac tamponade. However, recurrent suspect hemorrhage is likely, with potential future development of malignant arrhythmia and/or sudden death. Referral for further clarification with potential for oncology consult for possible chemotherapeutic or radiation protocols, which may extend average survival time. Over-the-counter herbal supplement Yunnan Baiyao may help decrease the risk of pericardial hemorrhage, although the true benefit is speculative. Alternatively, given the likelihood of hemangiosarcoma with an unfavorable long term prognosis, humane euthanasia could be considered.



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



PATIENT

can be of any further assistance please contact me.

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