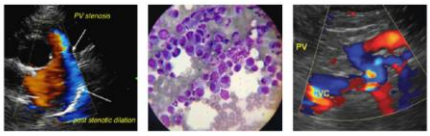
IMAGING PERFORMED BY
SVS Mobile Imaging 262 - 366 - 5970
fredgromalak@gmail.com



SonoPath
Clinical Sonography & Telecytology
EDUCATIONAL TELECONSULTATION SERVICES™
1-800-838-4268 info@sonopath.com SonoPath.com

PATIENT
Bentley Clark

SPECIES
Canine

BREED
Standard Poodle

SEX
MN

AGE
7yr

WEIGHT
65lb

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

IMAGING PERFORMED BY
Kim Liedberg

HOSPITAL NAME
SVS Imaging WI

REFERRING VET
Dr. Harte Grayslake AH

INVOICE
12490ag

DATE
12/19/2022

PRESENTING CLINICAL SIGNS

Presented on 12/15/22 for lethargy and inappetence. Abdominal radiographs reveal possible free fluid in abdomen. Thoracic radiographs reveal fluid around the heart and possible pleural fluid in chest cavity. Started on baytril and metronidazole and Bentley is doing much better and has started eating again. Baseline echo to check for heart disease.

Abnormal PE/Chem/CBC/UA Results: elevated liver enzymes and decreased protein.

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	<1.3	28-40	40-100	<0.6
PATIENT				1.2	44.4	78	0.31
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	173	1.2	0.9		4.1	3.6	

Cardiac Presentation

Moderate volume pericardial effusion with diastolic collapse of the right atrial wall consistent with cardiac tamponade was present. A discrete mildly non-homogeneous mass/lesion in the area of the right auricle measuring 2.3 cm in diameter was present. LV function is adequate, and the left atrium is normal in diameter. Possible mild LV volume contraction with subjective borderline pseudohypertrophy was present. Pulmonic and aortic valves were normal in appearance. Mild MR present on Doppler. Normal measured LV and RV outflow velocities were present. No overt arrythmia. Brief assessment of the cranial abdomen revealed evidence of hepatic congestive criteria and cranial abdominal ascites.

ULTRASONOGRAPHIC FINDINGS

- Moderate volume pericardial effusion
- Suspect discrete mass in the area of the right auricle
- Secondary cardiac tamponade and hepatic congestion/ascites
- Mild compensated MR

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The pericardial effusion is suspected to be secondary to the tumor in the area of the right auricle and is strongly suggestive of hemangiosarcoma given the location. The patient is in cardiac tamponade resulting in cardiac volume depletion, hepatic congestion and likely decreased cardiac output. Referral for pericardiocentesis with effusion analysis and cytology is recommended. Pending additional diagnostics, prognosis is very guarded to unfavorable. Potential oncology consultation for chemotherapeutic/radiation options could be considered. Recurrent pericardial effusion is considered

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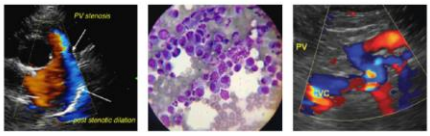

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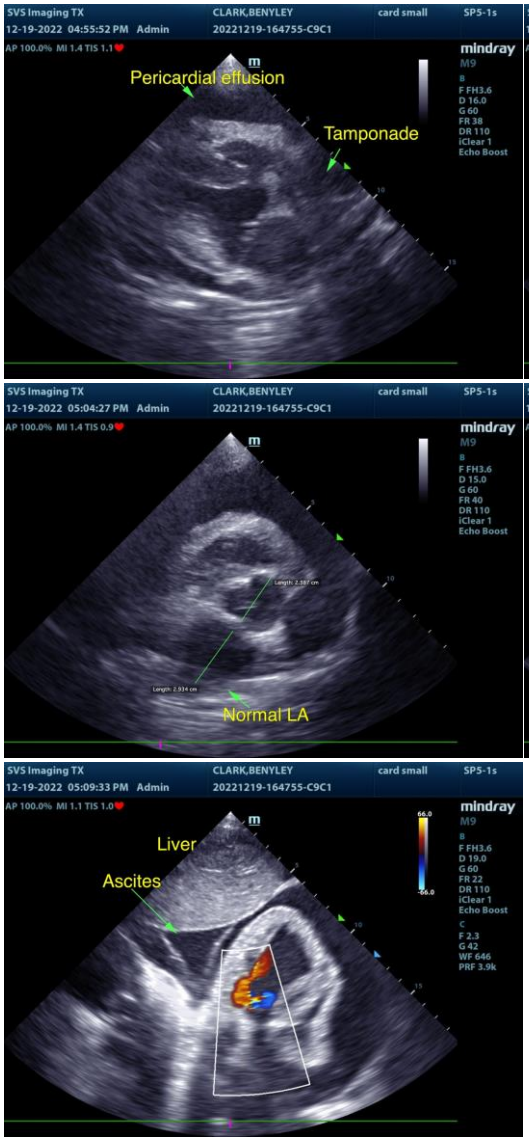
highly probable. If hemorrhagic pericardial effusion is confirmed, herbal supplement Yunnan baiyao may help to decrease risk of pericardial bleeding although true benefit is speculative.



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.

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)

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