



PATIENT

Charlie Primrose

SPECIES

Canine

BREED

Havanese Mix

SEX

Male Neutered

AGE

13 years

PRESENTING CLINICAL SIGNS

History: Recheck echo. Grade 4/6 heart murmur. Bloody diarrhea, lethargic, weight loss. Splenic mass on AUS.

-Current medications: Pimobendan.

-Radiographs: Cardiomegaly with VHS is 11.9.

-Pertinent previous echo findings (12/2020 MML): Moderate MR, moderate LAE, mild LVE, trace TR. LA: 2.5, LV: 3.06.

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. Diffuse thickening of mitral valve leaflets (anterior>posterior) with significant prolapse into the left atrial lumen. Severe eccentric mitral regurgitation with severe left atrial dilation. Normal MR velocity. Moderate LV dilation with hyperdynamic myocardial function. The tricuspid valve appears mildly thickened with trace tricuspid regurgitation. Velocity consistent with moderate pulmonary hypertension. Mild right heart enlargement. Large mixed echogenicity mass readily visualized in the right AV groove with suspension for compression of the right atrium (2.1 x 2.8cm). The pulmonic and aortic valves are normal in morphology and mobility. Normal pulmonic and aortic outflow velocities. No aortic or pulmonic insufficiency. No pericardial or pleural effusion noted.

CARDIAC CHART

WEIGHT

11.2lbs

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

IMAGING PERFORMED BY

C. Belan, DVM

HOSPITAL NAME

Signal Hill Animal
Clinic

REFERRING VET

Dr. Cumyn

INVOICE

25936

DATE

8/22/22

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	4.6	3.6	2.3	2.3	48	80	0.4
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	148	1.1	0.82	5.1	2.9	4.0	2.1
*Normal chamber parameters expressed as a mean value (SD)				3	1.27 (5.3)	2.46 (2.46)	1.36 (5.5)
BODY WEIGHT DEPENDENT PARAMETERS				5	1.40 (4.5)	2.74 (5.2)	1.60 (4.7)
<i>*Note: All measurements based upon multi-modal images and methods. An average value is reported.</i>				10	1.50 (3.8)	3.27 (3.5)	2.06 (3.1)
				15	1.83 (2.0)	3.71 (2.4)	2.43 (2.1)
				20	2.02 (1.9)	4.14 (2.2)	2.80 (2.0)
				25	2.18 (2.4)	4.48 (2.9)	3.10 (2.5)
				30	2.33 (3.3)	4.83 (3.9)	3.39 (3.4)
				35	2.48 (4.3)	5.17 (5.0)	3.69 (4.5)
				40	2.62 (5.2)	5.48 (6.1)	3.96 (5.4)
				50	2.88 (7.1)	6.07 (8.3)	4.46 (7.4)

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Chronic degenerative valve disease persists with evidence of significant progression. Previously moderate disease has become severe with increased left heart dimensions and severe MR. This would suggest that due to structural disease alone, there is high risk for imminent complication. Of additional concern, a large mass is identified in the AV groove. The most likely tumor type



PATIENT

Charlie Primrose

given this location is a hemangiosarcoma (HSA) and is the diagnosis until proven otherwise. The mass appears compressive with obstructing flow through the right atrium, leading to elevated pulmonary pressures and reported hepatic congestion. No effusions are identified but certainly this could develop at any time.

SPECIES

Canine

The prognosis with cardiac hemangiosarcoma alone is poor, with an MST of 2-3 months. The emergent limiting factor is often pericardial hemorrhage, and the owner should monitor for associated signs (collapse). HSA also has a high metastatic rate and splenic mass is noted on abdominal imaging. Patients with cardiac neoplasia are at high risk for recurrent hemorrhage, development of tamponade and malignant arrhythmias/sudden death in the future.

BREED

Havanese Mix

SEX

Male Neutered

At this point in the disease process, the prognosis is grave as the mass has begun causing clinical compromise and metastatic disease is noted. Symptomatic therapy can be attempted using hydrocodone and cardiac medications; however, if the QOL is impacted humane euthanasia should be considered.

AGE

13 years

Over the counter herbal supplement Yunnan Baiyao may help decrease risk of bleeding, however true benefit is speculative (1 capsule PO BID). Chemotherapy and/or RT can be discussed with an Oncologist and may or may not extend survival time.

WEIGHT

11.2lbs

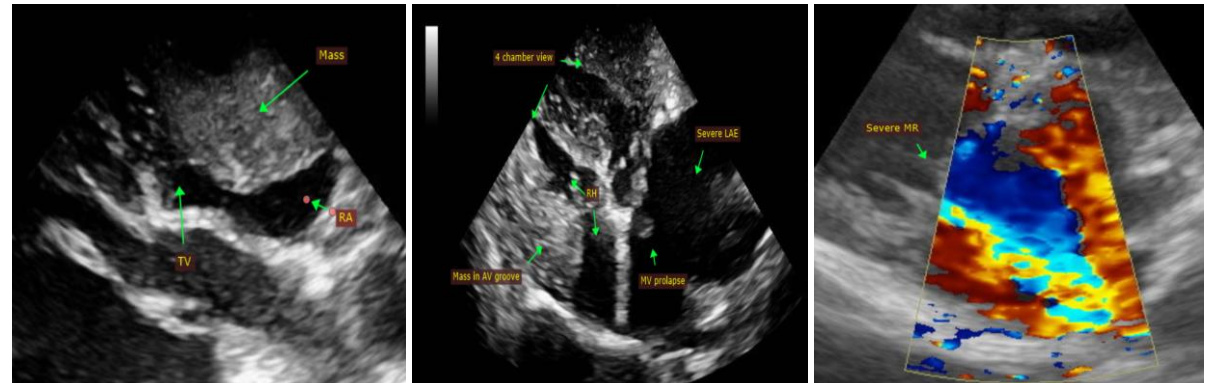
PLAN

Consider euthanasia if quality of life is impacted. If elect to treat, institute Lasix 1mg/kg PO q12h. Institute Spironolactone 1-2mg/kg PO q12h. Continue Pimobendan as prescribed. If patient is able to be stabilized and QOL improved, recheck is recommended in 2-3 months.

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

IMAGES



IMAGING PERFORMED BY

C. Belan, DVM

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.

HOSPITAL NAME

Signal Hill Animal
Clinic

REFERRING VET

Dr. Cumyn

Thank you for this referral. This report was generated using transcription software, and minor dictation errors may be present. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance, please contact me.

INVOICE

25936

Maggie Machen Lamy, DVM

Diplomate of the American College of Veterinary Internal Medicine (Cardiology)

info@sonopath.com

DATE

8/22/22