

PATIENT

Baxter Campbell

SPECIES

Canine

BREED

Poodle X

SEX

Neutered Male

AGE

9 Years

WEIGHT

19.5 kg

INTERPRETED BY

Bradley Harris, DVM,
 DACVECC, DACVIM
 (Cardiology)

IMAGING PERFORMED BY

Andrea Nicastro, DVM,
 DACVIM

HOSPITAL NAME

VSC Blue Pearl, Mt.
 Pleasant

REFERRING VET

Dr. Star

INVOICE

35201

DATE

1/5/26

PRESENTING CLINICAL SIGNS

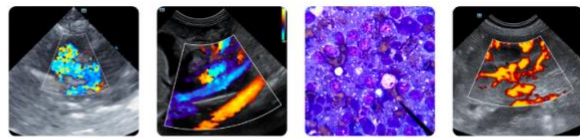
History: Presents with elevated liver enzymes. Started to vomit bile on Christmas day but then this past Monday was fine the O stated. Had a Cerenia injection yesterday at the primary. Did not eat this morning or throw up. Since Christmas, PU/PD and a decrease in appetite. Baxter is currently on Farmers dog and Blue Buffalo. The O is unsure if Baxter ate something that Baxter wasn't supposed to or thinks the neighbors have poisoned the dog. Baxters urine on Christmas was orange but now is more yellow. Baxter is utd on vaccines and prevention. Baxter is on medications, but the O can't remember the names. 3/6 murmur Meds: Metronidazole, Enrofloxacin, Doxycycline, Denamarin, Cerenia Abnormal PE/Chem/CBC/UA Results: Pre Meal Bile Acids >420.0 13 umol/L Post Meal Bile Acids >420.0 25 umol/L ALP 1549 Tbili 21.4 ALB, ALT, Crea, K+, TP --> unable to read HR:156, RR: 30, BP: 194

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

CANINE CARDIAC PARAMETERS	BW	HR BPM	LAD 4 ch Long	RAD 4 ch Long	La/Ao Heart Base	LVIDd	LVIDs
NORMAL PARAMETER		50-100			<1.6		
PATIENT	19.5 kg	130	5.0	2.18	1.34	4.12	2.13
CANINE CARDIAC PARAMETERS	FS	EPSS	PV V MAX (m/s)	AV V Max (m/sec)	MR Vmax	TR Vmax	RPA distensibility (normal >30%)
NORMAL PARAMETER	28-40	<0.6	0.7-1.6	0.7-1.7	4.5-5.5	< 2.7	
PATIENT	48	0.3	0.7	1.1	5.2	4.0	37

Cardiac Presentation

The left atrium is mild to moderately enlarged. The left ventricle is upper limits of normal in dimension, with normal systolic function. The right atrium and ventricle are normal in dimension, with normal systolic function. The mitral valve is thickened and redundant consistent with myxomatous changes, and there is minimal prolapse. There is evidence of moderate mitral regurgitation. The tricuspid valve leaflets are thickened and redundant with mild tricuspid regurgitation and evidence of mild to moderate pulmonary hypertension. The left ventricular outflow tract demonstrated normal laminar flow and the visible aorta is unremarkable. The right ventricular outflow tract assessment revealed normal laminar flow, and appropriate diameter and distensibility. No evidence of hepatic venous congestion is noted. There is trivial pulmonic, and no aortic valve insufficiency documented.



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There is no visible pericardial, pleural, or free peritoneal fluid noted. The cardiac chambers, pericardial and visible extra-cardiac regions were free of masses, spontaneous echo contrast, or thrombi.

ULTRASONOGRAPHIC FINDINGS

- These findings are consistent with degenerative/myxomatous mitral valve disease with moderate hemodynamic effects consistent with ACVIM Stage B2. The patient also has mild to moderate pulmonary hypertension likely from a combination of left-sided heart disease and possibly underlying lung disease. Correlate these findings with thoracic radiographs.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Recommendations/Treatment:

Given the degree of chamber dilation, cardiac therapy with Vetmedin (0.25-0.35 mg/kg BID) is recommended. While there is an increased risk of IV fluids, corticosteroids, or anesthesia, there is no overt objection, as the need likely outweighs the risks. A repeat chest X-rays, BP, and chemistry should be performed now for a baseline, and again in 1-2 weeks. A repeat echo is indicated in 6 months. Owners should monitor resting respiratory rate at home. Values above 30 breaths/minute or an increase in respiratory rate 10% above baseline should prompt veterinary re-evaluation.

Anesthesia considerations:

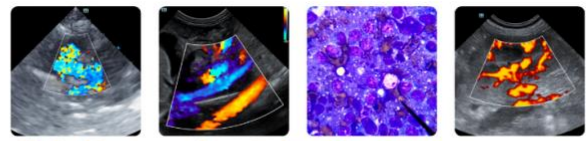
While there is no CHF present, there is likely an increased anesthetic risk which must be considered prior to any anesthetic procedure. If anesthesia is necessary, then alpha-2 agonists, ketamine, high dose acepromazine, and Telazol should be avoided. If an ACE inhibitor (enalapril, benazepril) or spironolactone is being given, it should not be administered on the morning of general anesthesia. Other cardiac medications should be administered per the normal dosing schedule. Fluid therapy during anesthesia should be considered at a reduced rate (e.g., 5 ml/kg/hour) if possible. A shorter anesthetic duration will reduce the risk of complications. Pre-oxygenation is advised. Premedication with an opioid (i.e., butorphanol, hydromorphone, oxymorphone) with or without a benzodiazepine is generally the safest protocol. An induction agent such as Propofol, alfaxalone, or diazepam/etomidate can be used to affect. Maintenance of anesthesia with isoflurane or sevoflurane is reasonable. Dobutamine (2.5-10 µg/kg/min as a CRI, starting at 2.5 µg/kg/min and increasing the dosage incrementally) may be used in lieu of fluid boluses to augment systemic blood pressure.

Diet:

A high-quality food from Hills, Royal Canin, Science Diet, Eukanuba, Iams, or Purina that is highly palatable with adequate protein and calories for maintaining an optimal body condition is recommended. Consider omega-3 fatty acid supplementation. Avoid any boutique, exotic, or grain-free diets.

Activity:

Moderate physical activity (meandering walks, exploring the backyard, playing with toys inside, getting excited when family gets home, etc.) is encouraged, but periods of strenuous aerobic activity (jogging, strenuous outdoor ball play, prolonged play at the dog park, etc.) should be avoided, especially during periods of high heat (> 80 F) and humidity. Dogs with heart disease tend to tolerate cool and cold temperatures much better than high temperatures. Avoid sudden increases in activity (e.g. 2 block walks during the week but 2 mile walks followed by 30 minutes at the dog park on the weekends) as this may be difficult for the cardiovascular system to deal with.



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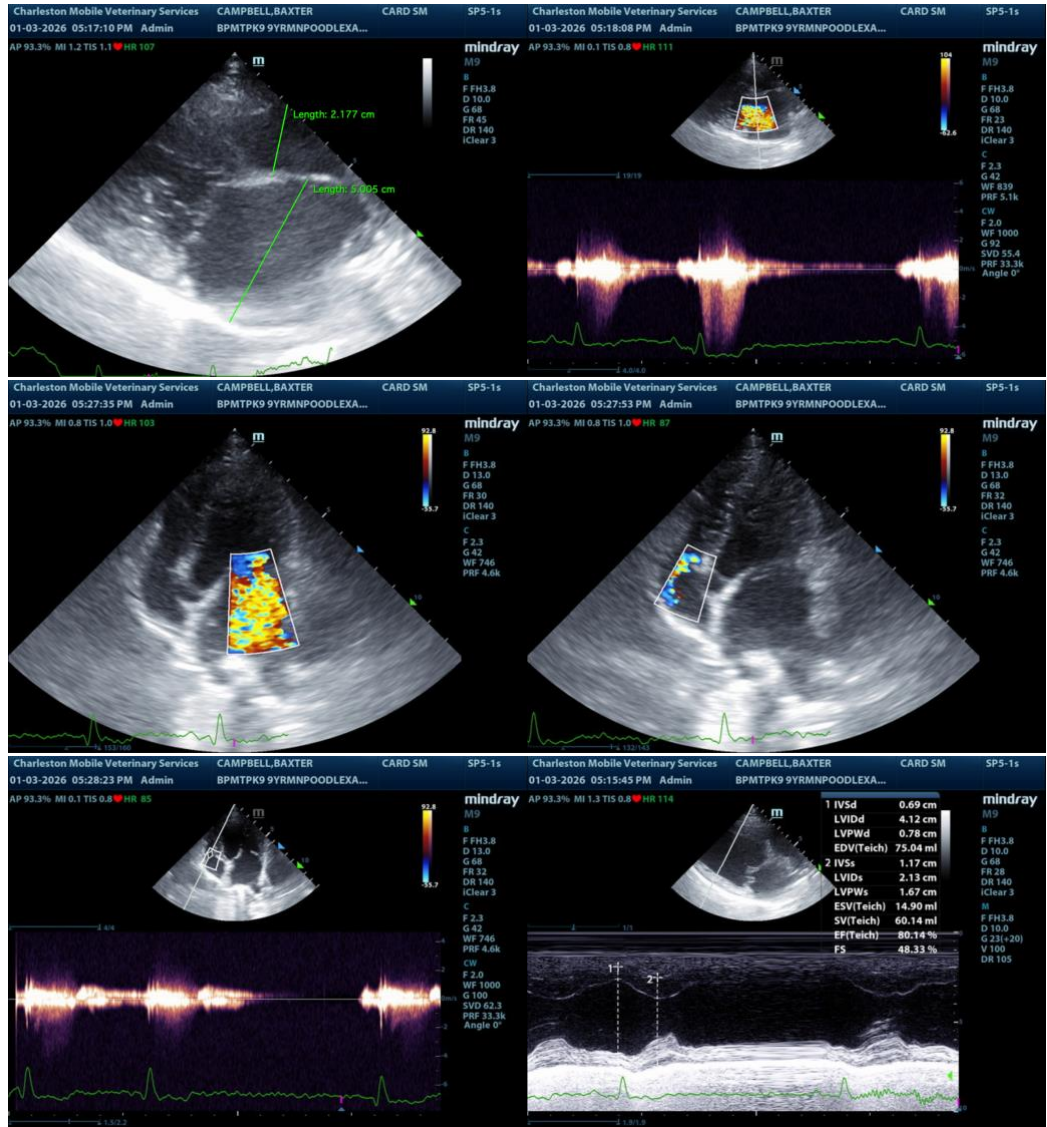
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Bradley Harris, DVM, DACVECC, DACVIM (cardiology)

info@SonoPath.com