



## PATIENT PRESENTING CLINICAL SIGNS

Beemer Quimby History: Elevated ProBNP. No reported meds or additional blood work.

## SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE HEART

Canine

BREED

Mixed Breed

SEX

Spayed Female

AGE

12 Years

WEIGHT

21.7 Pounds

CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (Boon method)	LA/AO (Heart Base; Swe)	FS (%)	EF (%)	EPSS (cm)
<b>NORMAL PARAMETER</b>	4.5-5.5	<2.7	1.3	<1.3	28-40	40-100	<0.6
<b>PATIENT</b>	NM	1.4	1.36	1.43	45%	73.2%	0.16
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)
<b>NORMAL PARAMETER</b>	50-100	0.7-1.7	0.7-1.6	N/A	1.9-3.1	2.6-3.4	1.6-2.3
<b>PATIENT</b>	111	1.30	0.79	9.9	2.25	2.96	1.60

### Cardiac Presentation

The **left atrium** is very slightly enlarged with no evidence of smoke or thrombus formation. The **left ventricle** is normal in diameter with normal wall thickness and demonstrates good systolic function. The **right atrium** is mildly increased in size (40% of LA size, with <33% being normal) and **right ventricle** dimensions and systolic function are subjectively normal. There is mild to moderate mitral valve regurgitation and **tricuspid valve** regurgitation noted, with irregular thickening of the valve leaflets. There was no evidence of chordae tendineae rupture or valvular prolapse in either valve and no vegetative lesions were seen. The **aortic** and **pulmonary valves** both exhibit normal appearance and function. The **main pulmonary artery** appears normal. No pericardial/pleural effusion or cardiac masses are seen. There is no evidence of an arrhythmia.

## INTERPRETED BY

Tam Mengine, DVM, DABVP (canine/feline practice)

## IMAGING PERFORMED BY

Kelly Vazquez

## HOSPITAL NAME

Westwood RVH

## REFERRING VET

Dr. George Cattiny

## INVOICE

17560

## DATE

10/3/22

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Myxomatous mitral valve disease – Stage B1. Myxomatous tricuspid valve disease.

- No medication is warranted at this time.
- Daily monitoring of the sleeping respiratory rate at home is recommended, and if the sleeping respiratory exceeds 35 breaths per minute, then a prompt recheck physical examination and chest radiographs to assess for pulmonary edema would be warranted.
- The patient may benefit from a cardiac diet such as Purina's "CardioCare" veterinary diet.
- Recheck echocardiogram is recommended in 6-8 months. MMVD is a progressive disease, and it is likely that while no medication is warranted now, it will be beneficial in the future.
- If anesthesia is needed, the following recommendations are suggested:
  - Avoid a-2 agonists such as dexmedetomidine and xylazine.



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- Pre-medication with an opiate and a benzodiazepine is recommended (refer to . Additionally, Gabapentin 10mg/kg PO and trazodone 5mg/kg PO given first thing in the morning on the day of the procedure can further reduce inhalant anesthetic requirements.
- Pre-oxygenation, followed by induction with propofol or alfaxalone is recommended, followed by maintenance with isoflurane or sevoflurane.
- When feasible, the use of local anesthetic blocks can decrease maintenance anesthetic requirements.
- Moderate use of IV fluids throughout the procedure is recommended, with a starting dose of 3-5ml/kg/hr, with modest increases as needed to support blood pressure, but not to exceed a total volume of 20-30ml/kg for the procedure. The minimum volume necessary to maintain adequate blood pressure is desirable.
- Use atropine, if necessary, to maintain a HR > 90 throughout the procedure. If available, a dopamine or dobutamine CRI can be used for additional blood pressure support if the patient experiences hypotension.

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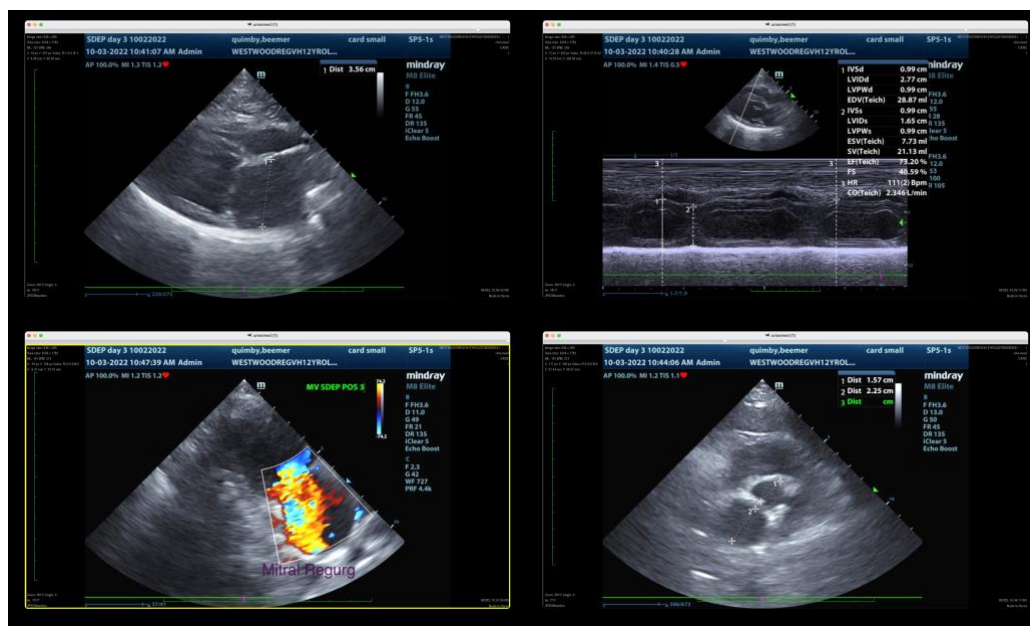
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Tam Mengine, DVM, DABVP (canine/feline practice) info@SonoPath.com