



PATIENT

Beesly Kennedy

PRESENTING CLINICAL SIGNS

History: Recheck echo: VSD, pulmonic stenosis, aortic insufficiency. Grade 5/6 heart murmur. When doing anal glands patient became cyanotic which is a new symptom exacerbated by stress.

SPECIES

Canine

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. Normal mitral valve with no obvious prolapse into the left atrial lumen. No mitral regurgitation with normal left atrial dimension. Normal LV diameter with adequate myocardial function. Normal LV wall thickness. The tricuspid valve appears normal in form and function. Trace TR. Normal velocity. Normal right atrial and ventricular diameter and morphology indicating no overt evidence of pulmonary arterial hypertension. The pulmonic and aortic valves are normal in morphology and mobility. No aortic and mild pulmonic insufficiency. A perimembranous VSD is readily visualized; L-R just below the aortic valve. Max velocity: 4.8m/s. Normal aortic and mildly elevated pulmonic outflow velocities. No pericardial or pleural effusion noted. No obvious cardiac tumors.

BREED

Cavalier

SEX

Female Spayed

AGE

5 years

CARDIAC CHART

WEIGHT

12.6lbs

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	NM	2.4	1.1	1.3	53	85	NM
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	120	0.8	1.8	5.7	2.1	2.6	1.2
*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)

INTERPRETED BY

Maggie Machen Lamy,
DVM DACVIM
(Cardiology)

IMAGING PERFORMED BY

Kelly Reschny, RVT

HOSPITAL NAME

Beattie Pet Hospital
Stoney Creek

REFERRING VET

Dr. Baskin

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

A perimembranous ventricular septal defect (VSD) persists, as was previously documented. The shunt is allowing left to right high velocity flow, with no evidence of significant volume overload of the left heart at this time. The size of the defect is relatively small, and typically small shunts do not significantly impact patient QOL or lifespan. Monitoring is advised for any progressive cardiac dilation or dysfunction lifelong. PS is noted historically; however, the only abnormality appreciated is increased flow through

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DATE

1/5/23



PATIENT

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the region. This is commonly seen with a VSD and is a relative stenosis rather than a true congenital issue. What is seen here is benign. No concurrent issues such as systolic dysfunction or pulmonary hypertension are noted in this study. The LA and LV both measure normal for this body size, indicating low current risk for complication. No additional congenital defects are observed.

SPECIES

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These findings do not clearly explain cyanosis with exertion. If the symptom recurs, baseline CXR is strongly recommended.

BREED

Cavalier

No cardiac medications are clearly indicated. Assessment for progressive LA or LV dilation in the future will help predict long term prognosis, which is fair at this time. Omega fatty acid supplementation and mild salt restriction may be of some long-term benefit. Monitor for development of a cough, labored breathing, exercise intolerance or collapse episodes.

SEX

Female Spayed

AGE

5 years

Anesthetic risk is considered mild if needed. Cardiac protective drug choices (opioid/benzodiazepine premedication, propofol or alfaxalone induction, isoflurane gas) are recommended. Pre-oxygenate for 5-10 minutes prior to induction. Monitor for arrhythmias, hypotension, and hypoxia both intra and post-operatively and intervene as necessary. Mild IV fluid restriction is recommended to avoid fluid overload. Avoid heart rate stimulating drugs such as atropine unless clinically indicated.

WEIGHT

12.6lbs

Recommend conservative monitoring with a recheck echocardiogram in 12 months to assess for progression. sooner if any development of clinical signs.

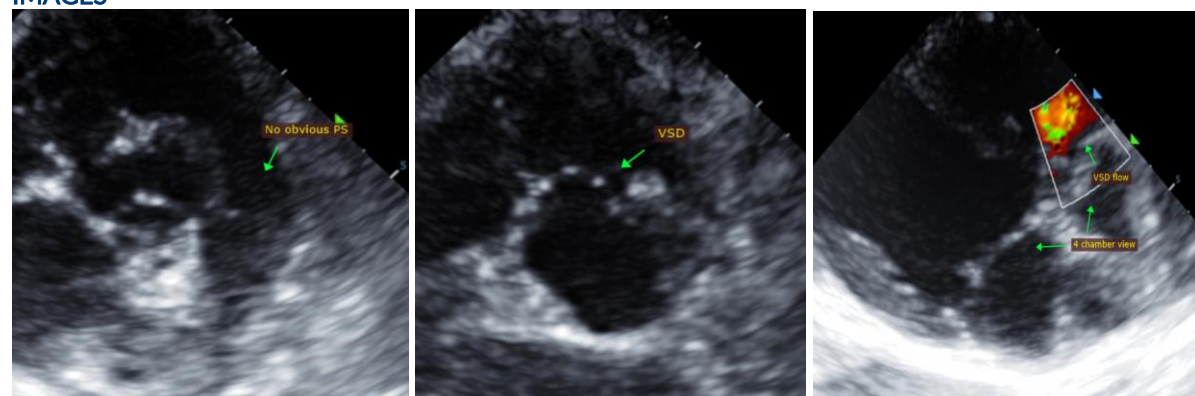
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(Cardiology)

IMAGES

IMAGING PERFORMED BY

Kelly Reschny, RVT



HOSPITAL NAME

Beattie Pet Hospital
Stoney Creek

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.

REFERRING VET

Dr. Baskin

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.

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