

PATIENT

Guiness Blue

SPECIES

Canine

BREED

Pitbull Mix

SEX

Neutered male

AGE

5 years

WEIGHT

63 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. McGee

HOSPITAL NAME

Bridgeport AH PLLC

REFERRING VET

Dr. McGee

PRESENTING CLINICAL SIGNS

History: Guiness was presented to the rDVM for diarrhea. On exam a grade 4 of 6 murmur was heard and radiographs were taken showing an enlarged cardiac silhouette. He was referred for an echocardiogram.

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 separate methods of LA evaluation. The cranial and caudal **mitral** valve leaflets presented normal linear structure, extension in systole, and union in diastole with normal kinesis. The **left ventricle** presented thicknesses with linear contour and was not dilated nor restricted. The **myocardium** presented normal echogenicity without subjective evidence of significant fibrotic or ischemic disease. **Contractility** of the ventricular walls was adequate and in normal range for this patient evidenced by the fractional shortening measurement and subjective evaluation of the different regions of the myocardium. The **left ventricular outflow** tract demonstrated normal laminar flow and subjective structural integrity. The **right atrium** was mildly enlarged in this patient with mild **tricuspid** insufficiency. The tricuspid valve appeared to have a tethered septal leaflet and elongated free wall leaflet with some vegetative change. The **right ventricle** presented concentric hypertrophy with significant turbulence at the **pulmonic** valve. Excessive outflow velocity of secondary insufficiency. No visible **pericardial** or free pleura fluid was noted. The cranial **mediastinum and pericardial and extra-cardiac regions** were free of masses in the visible window.

CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (Boon method)	LA/AO (Heart Base:)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	Up to 1.6	28-40	40-100	<0.6
PATIENT			1.1	1.1	47	78	0.3
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		1.9	4.2	63 lbs	2.86	4.5	

ULTRASONOGRAPHIC FINDINGS

Post valvular pulmonary artery dilation was noted with particular enlargement of the right pulmonary branch.

INVOICE

76073

DATE

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

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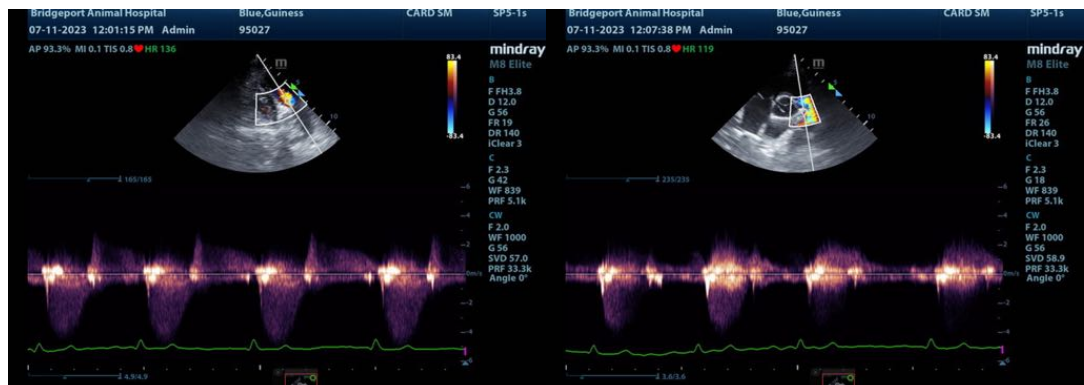
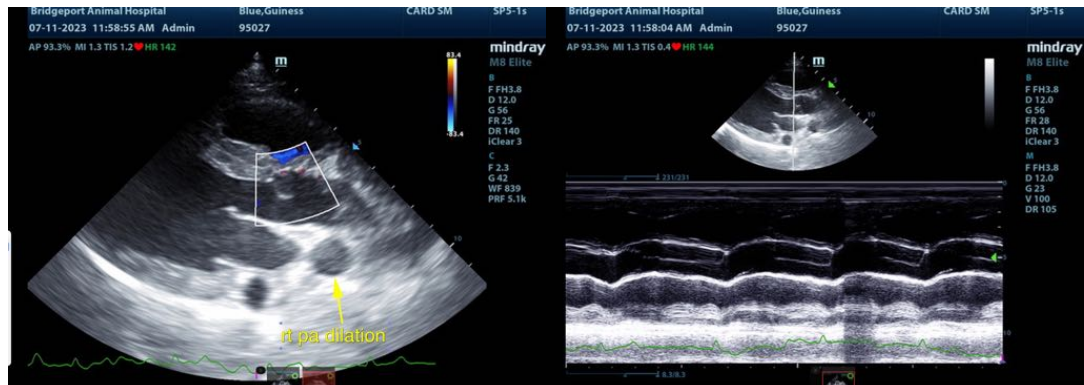
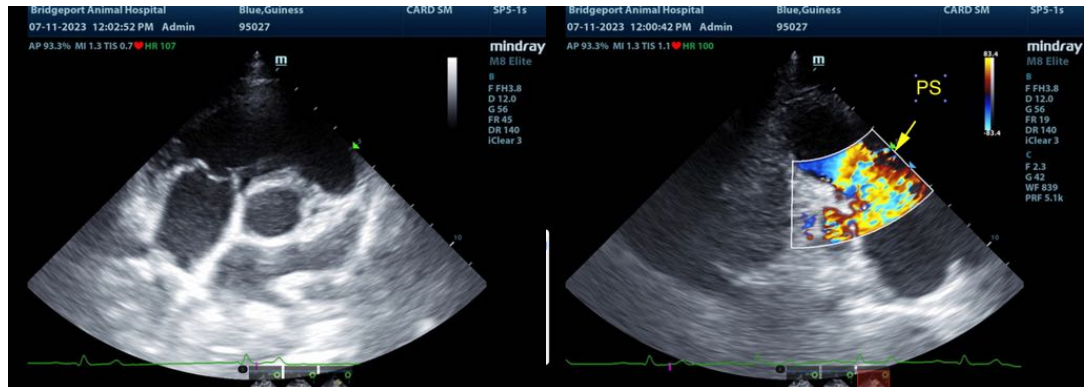
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Elevated velocity turbulence is consistent with pulmonic stenosis, partially compensated. Some level of tricuspid dysplasia may be present. Referral for potential balloon valvuloplasty would be appropriate with intervention cardiologist.





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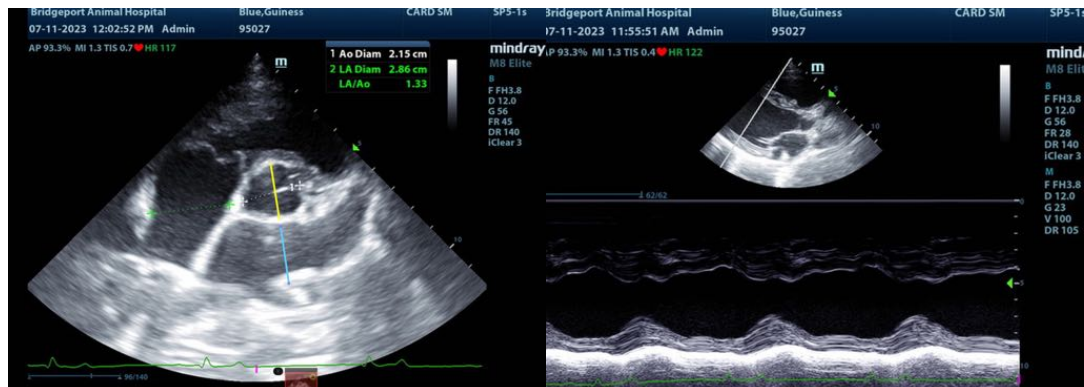
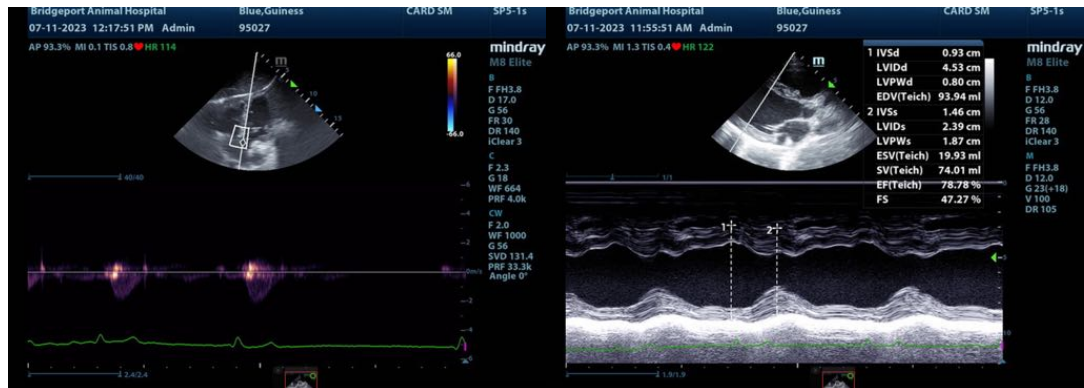
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Eric Lindquist, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com
info@SonoPath.com