



PATIENT PRESENTING CLINICAL SIGNS

Spanky Vrabel History: Syncopal episodes, erratic heart rhythm, bradycardia. HR 36 bpm
 Abnormal PE/Chem/CBC/UA Results: BP 104/85(96), 125/65(79)

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE HEART

Canine

BREED

Bulldog Mix

SEX

Neutered male

AGE

12 years

WEIGHT

76 lbs

INTERPRETED BY

Eric Lindquist, DMV
 DABVP, Cert. IVUSS

IMAGING PERFORMED BY

JK

HOSPITAL NAME

Hamburg VC

REFERRING VET

Dr. DenHeyer

INVOICE

31181

DATE

6/22/22

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** and auricle revealed normal size, structure and content. No evidence of masses was noted. **Tricuspid** valvular assessment demonstrated adequate linear morphology and kinesis. The **right ventricle** was of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. **Pulmonary outflow** tract assessment revealed normal valve structure, laminar flow, and diameter (approx. 1:1 pa/ao ratio). 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. Bradyarrhythmia is noted.

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	<1.3	28-40	40-100	<0.6
PATIENT	-	-	1.3	-	56	86	0.6
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	-	-	-	-
PATIENT	51	2.0	-	76 lbs	4.2 max	4.26	-

ULTRASONOGRAPHIC FINDINGS

Structurally unremarkable heart with bradyarrhythmia.

Heart block is suspected.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Pace maker is likely in this patient's best interest. Referral for cardiac intervention is recommended. No primary cardiac medications are recommended other than arrhythmogenic treatment.



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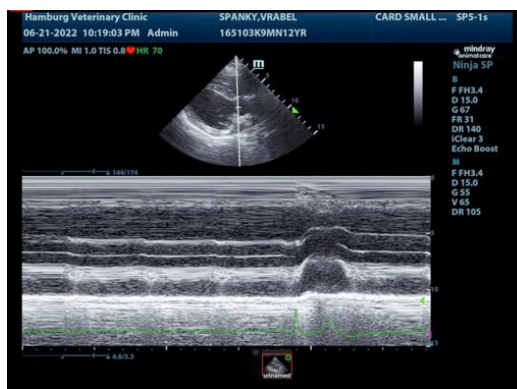
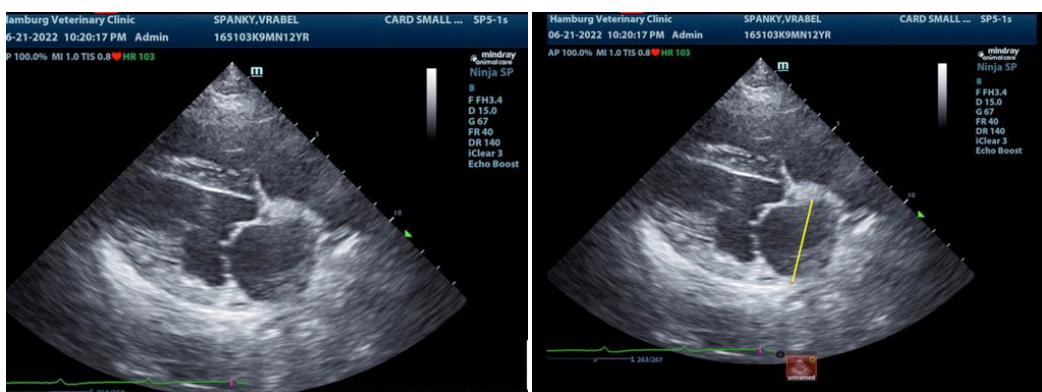
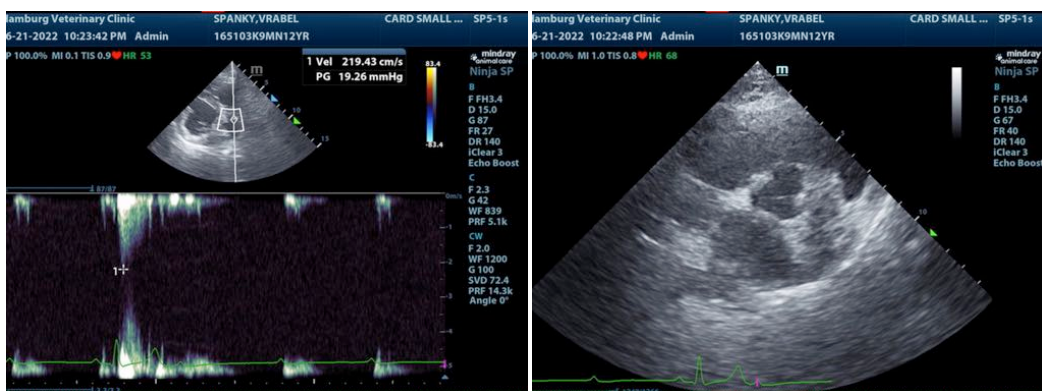
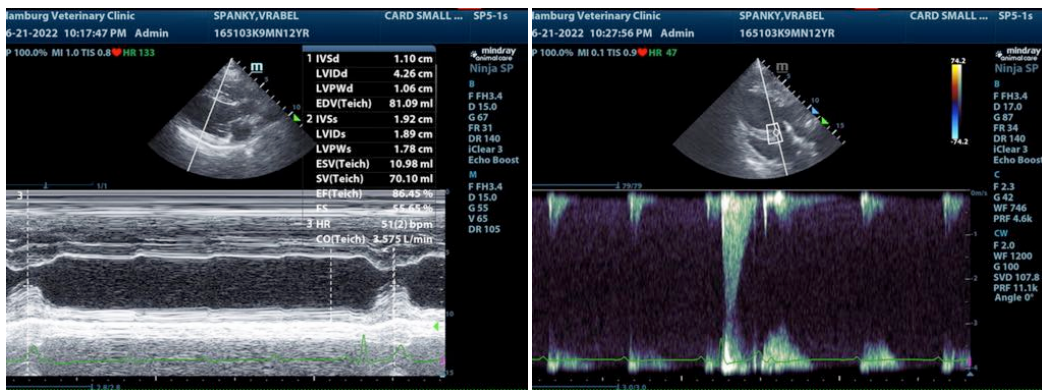
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Canine

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.

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Bulldog Mix

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.

SEX

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info@SonoPath.com

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