



PATIENT PRESENTING CLINICAL SIGNS

Rosalita Cambria

History: grade 5 heart murmur , was presented for pre dental exam ans to assess the risk of anesthesia prior to dental cleaning no symptoms at home

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

BREED

Chihuahua

The **echocardiogram** presented a prominent **right heart** with mild **right ventricular** hypertrophy, with minor **tricuspid** regurgitation at 2.77 m/sec. The **right atrial** size is normal. No evidence of neoplasia was noted in the right auricle, or elsewhere in the heart. The **pulmonary artery** was uniformly prominent with mildly depressed pulmonic velocity measured on PW Doppler. No overt heartworms were noted in the main or visible deep pulmonary arteries. Yet, theoretically heartworms could be present in the deep pulmonary vasculature out of visible sonographic range. More likely, however, this prominent right heart is due to excessive intra-thoracic pressures caused by chronic respiratory disease or potentially excessive intra-thoracic fat (Pickwickian syndrome). The **left heart** demonstrated a linear **ventricular septum**. Contractility was functionally adequate demonstrated by the FS% measurement. The **mitral valve** revealed insufficiency, yet no significant **left atrial** dilation was noted. The **left ventricular outflow** demonstrated normal flow patterns and velocities through the aortic valve. No evidence of tumor, pericardial or pleural effusion was noted. The visible **extra-cardiac** tissues were uniformly linear without evidence of masses, infiltrative or inflammatory mediastinal tissue. No evident arrhythmic activity was noted during the exam.

SEX

Spayed Female

AGE

14 years

WEIGHT

14 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

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	6.41	2.77	1.15	1.4	55	87	NM
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT	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		1.3	0.58	14 lbs	2.34	2.32	

IMAGING PERFORMED BY

Gabriel

HOSPITAL NAME

Central Jersey AH

REFERRING VET

Gabriel

ULTRASONOGRAPHIC FINDINGS

Mitral insufficiency, compensated at this time.

INVOICE

92186

Tricuspid insufficiency.

DATE

10/5/21

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The patient is at minor anesthetic risk. However, there is no significant volume overload. It is



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recommended to ensure that the blood pressures reveal a systolic pressure less than 160. I suggest the following protocol. Torbutrol premed, Propofol induction, and Isoflurane maintenance is recommended. Recheck echocardiogram is recommended in 6 months.

SPECIES

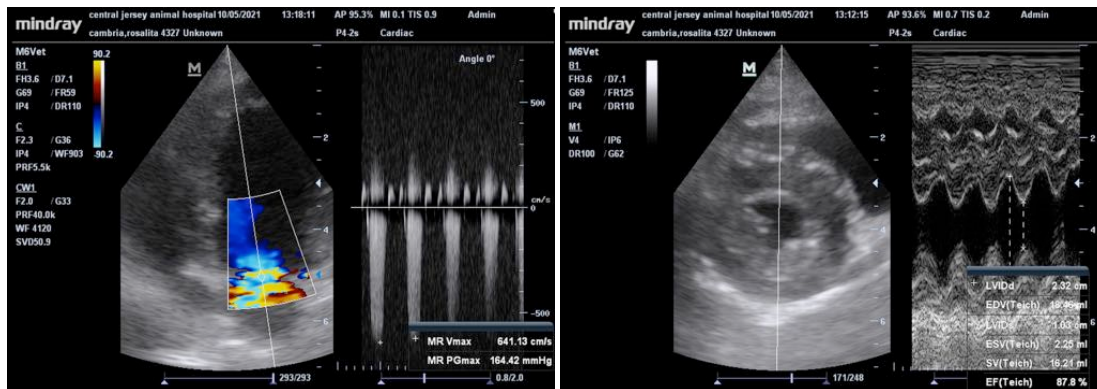
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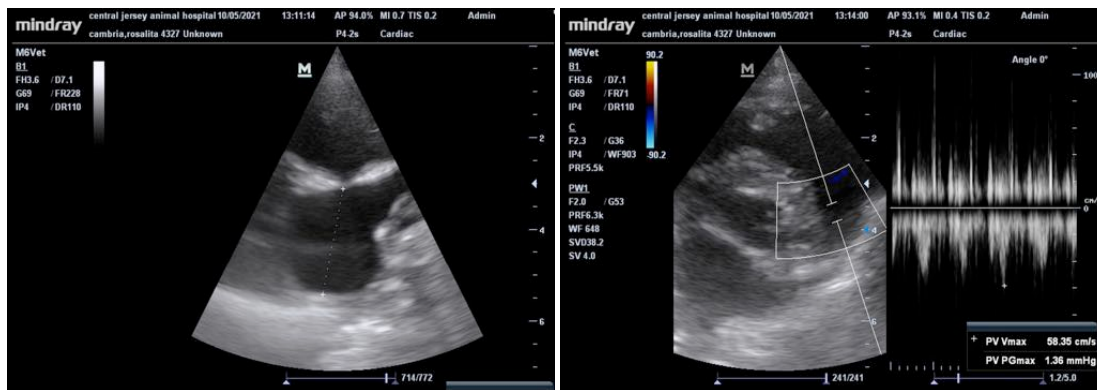
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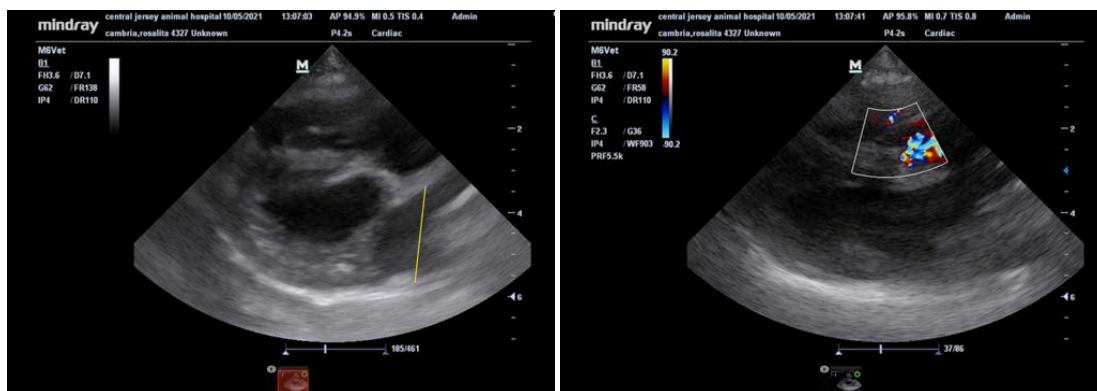
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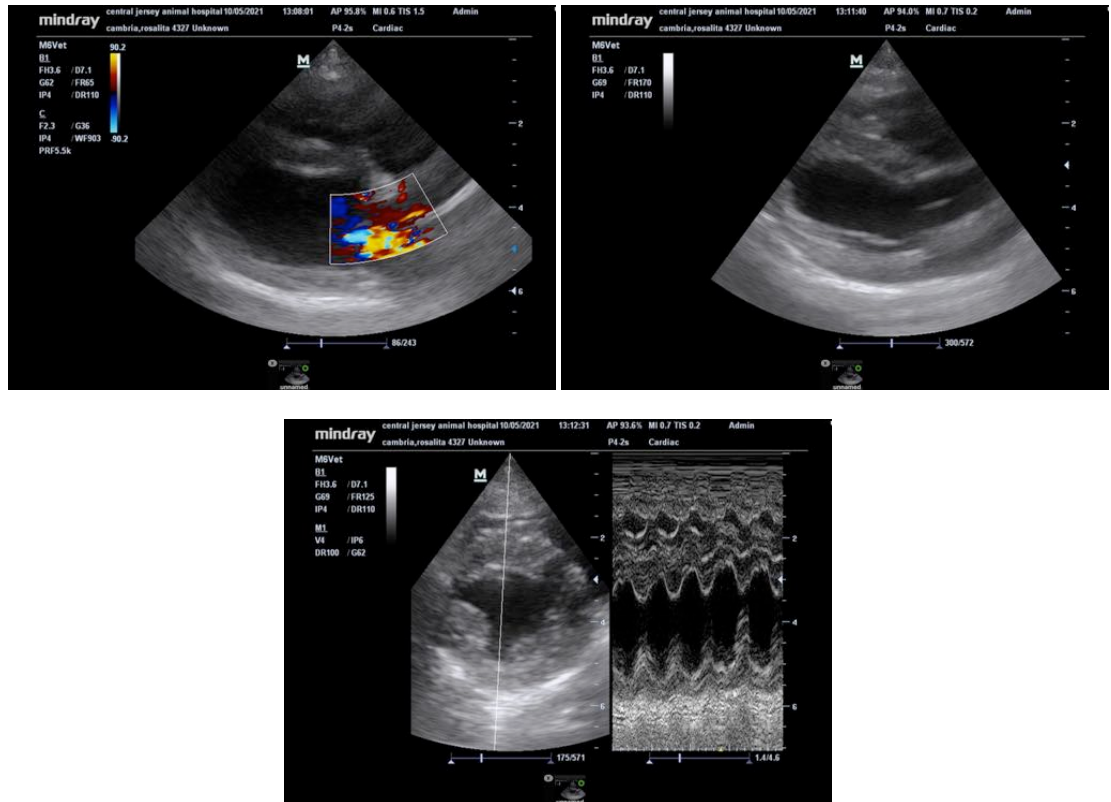
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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