



**PATIENT**

Kanye Buendia

**SPECIES**

Canine

**BREED**

Chihuahua Mix

**SEX**

Male Neutered

**AGE**

16 years

**WEIGHT**

3.8lbs

**INTERPRETED BY**

Maggie Machen Lamy,  
DVM, DACVIM  
(Cardiology)

**IMAGING PERFORMED BY**

G. Ferrer, DVM

**HOSPITAL NAME**

Paseos Veterinary  
Center

**REFERRING VET**

Dr. Ortiz

**INVOICE**

31809

**DATE**

7/12/23

**PRESENTING CLINICAL SIGNS**

History: Presented for evaluation of possible heart murmur. Assess prior to anesthesia.  
-Abnormal PE/Chem/CBC/UA Results: CBC: MONO \* 0.10 K/ $\mu$ L 0.16 - 1.12 LOW EOS \* 2.57 K/ $\mu$ L 0.06 - 1.23 HIGH BASO \* 0.48 K/ $\mu$ L 0.00 - 0.10 HIGH PLT 640 K/ $\mu$ L 148 - 484 HIGH PCT 0.74 % 0.14 - 0.46 HIGH CHEM: BUN 54 mg/dL 7 - 27 HIGH.

**ECHOCARDIOGRAM FINDINGS**

2D, m-mode, color flow and doppler imaging is available. Mildly thickened mitral valve leaflets with no obvious prolapse into the left atrial lumen. Trace MR. Normal left atrial dimension. Small LV diameter with normal myocardial function. The left ventricular wall thickness is moderately increased. The tricuspid valve appears subjectively normal, with no insufficiency seen. 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. Both the aortic and pulmonic outflow velocities are elevated with laminar flow and no obvious obstruction. No AI or PI noted. No pericardial or pleural effusion noted. No obvious cardiac tumors.

**CARDIAC CHART**

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	NA	NA	NM	1.1	50	92	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	200	1.9	1.25	1.7	1.1	1.0	0.5
*Normal chamber parameters expressed as a mean value (SD)				3	1.27 (5.3)	2.46 (2.46)	1.36 (5.5)
<b>BODY WEIGHT DEPENDENT PARAMETERS</b>				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)

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

The only cause of the murmur is increased flow velocity through both great vessels. Both are mild with no obstruction visualized. The structure and function of the heart is found to be normal, with evidence of likely pseudohypertrophy (i.e., small LV chamber and increased walls due to hypovolemia). Reassessing the lab work is recommended depending on the timeframe. Additionally, a baseline BP is strongly recommended. No additional issues are identified.



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No cardiac medications are indicated. Pending BP and volume assessment, there is no cardiac contraindication for general anesthesia. That being said, these abnormalities should be corrected if present.

**SPECIES**

Canine

Monitor for any development of cough, labored breathing or exercise intolerance.

**BREED**

Chihuahua Mix

Recommend recheck echocardiogram in 1 year to screen for progression or development of concurrent cardiac disease that the preexisting murmur may mask.

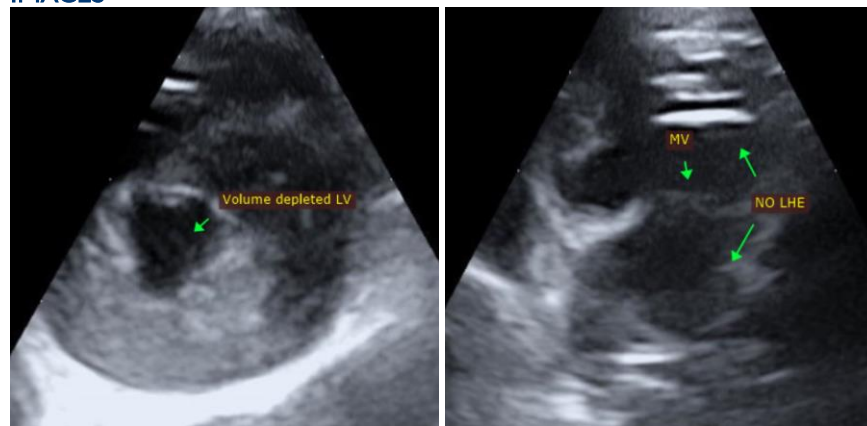
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**IMAGES**

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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.

**IMAGING PERFORMED BY**

G. Ferrer, DVM

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.

**Maggie Machen Lamy, DVM**  
Diplomate of the American College of Veterinary Internal Medicine (Cardiology)  
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