

**PATIENT**

Vincent Toshkova

**SPECIES**

Canine

**BREED**

Miniature Schnauzer

**SEX**

Intact Male

**AGE**

1 Years 2 Months

**WEIGHT**

10.6 pounds

**INTERPRETED BY**

Laurent Locquet, DVM,  
MRCVS, GPCert, (VC)  
Diplomate, ECVIM-CA  
(Cardiology)

**IMAGING PERFORMED BY**

Dr. Ginny Dodd DVM,  
D, ABVP-CFP

**HOSPITAL NAME**

Charlotte Natural  
Animal Clinic

**REFERRING VET**

Dr. Jimmy Schacht

**INVOICE**

14627

**DATE**

03/26/26

**PRESENTING CLINICAL SIGNS**

- heart murmur

Abnormal PE/Chem/CBC/UA Results: HR 60 during echo up to 177, grade IV/VI holosystolic murmur, possible diastolic murmur audible over neck, IV/VI murmur R, no pulse deficits

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (M-Mode)	LA/AO (Heart Base; Swe)	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	5.27	--	NM	1.81	14	33	0.36
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT (lbs)	LAD LA MAX 4 Chamber	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	NM	1.6	1.79	10.6	2.67	2.44	2.09

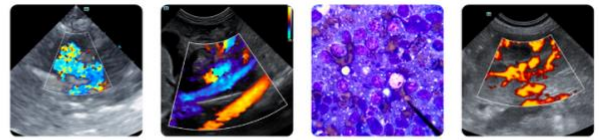
**Cardiac Presentation**

The left atrium is enlarged in all three views. The mitral valve is dysplastic with both severe mitral valve regurgitation and severe mitral valve stenosis. The left ventricle is normal in size. The myocardium shows normal echogenicity. The contractility is suboptimal. The left ventricular outflow tract is normal apart from moderate aortic insufficiency. The right atrium is normal. No evidence of masses. The tricuspid valve presents with moderate tricuspid regurgitation. The right ventricle is normal. The pulmonic tract is normal. No visible pericardial effusion or pleural effusion. The cranial mediastinum and pericardial regions are free of mass and visible.

**ULTRASONOGRAPHIC FINDINGS**

- Mitral valve dysplasia including severe mitral valve regurgitation and severe mitral valve stenosis.
- Moderate enlargement of the left atrium.
- The left ventricle is normal in size but shows systolic dysfunction.
- There is moderate aortic insufficiency.
- Moderate tricuspid valve regurgitation.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**



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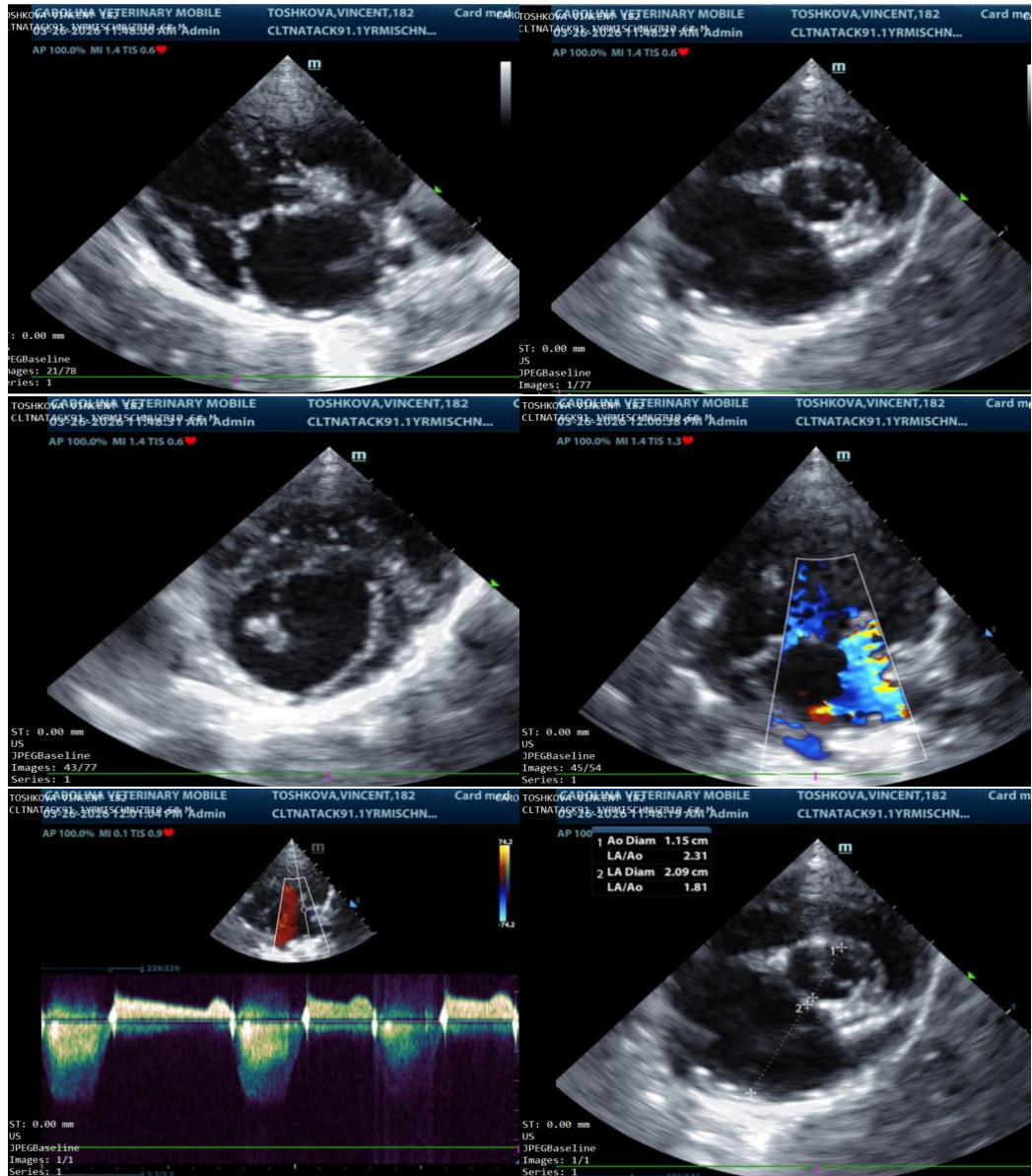
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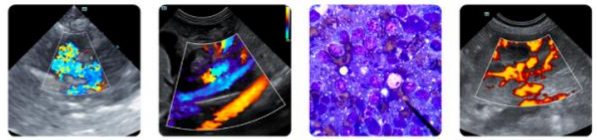
This is a rare congenital defect. Open heart surgery and hybrid interventions theoretically could be considered though should be in consideration with teams offering such procedures. Medication therapy and prognosis should be adjusted accordingly.



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.

Laurent Locquet, DVM, MRCVS, GPCert, (VC) Diplomate, ECVIM-CA (Cardiology)



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[info@SonoPath.com](mailto:info@SonoPath.com)

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