



**PATIENT PRESENTING CLINICAL SIGNS**

Galina Gates History: Cardiomegaly radiographically  
 Abnormal PE/Chem/CBC/UA Results: Grade 2 heart murmur. Kitten is growing normally.

**SPECIES BREED SEX AGE**  
 Feline  
 Maine Coon  
 Spayed female  
 18 weeks

**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 **ventricular septum** in this patient revealed irregular tissue thickening measuring approximately 0.25 cm. This is consistent with ventricular septal defect.. The **left ventricular outflow** tract demonstrated normal laminar flow and subjective structural integrity. The **right atrium** and **right ventricle** revealed mild enlargement. **Tricuspid** valvular assessment demonstrated adequate linear morphology and kinesis. **Pulmonary outflow** tract appeared unremarkable. 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. The hepatic veins were not dilated.

**WEIGHT**  
 6.1 lbs

**INTERPRETED BY**

Eric Lindquist, DMV  
 DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Beard

**HOSPITAL NAME**

West Prince AH

**REFERRING VET**

Dr. Gabbard

**INVOICE**

42376

**DATE**

12/27/22

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			1.15	1.3	NM	NM	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	BELOW	BELOW	BELOW	BELOW
PATIENT	220 and 140 under sedation	NM	NM	6.1 lbs	NM	1.4	

**ULTRASONOGRAPHIC FINDINGS**

Suspect ventricular septal defect.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Further imaging is necessary in this patient with color flow and spectral Doppler over the ventricular septum in both short and long axis. There is no overt contraindication to anesthetic procedure if necessary. The heart is currently compensated.



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Galina Gates

**SPECIES**

Feline

**BREED**

Maine Coon

**SEX**

Spayed female

**AGE**

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**WEIGHT**

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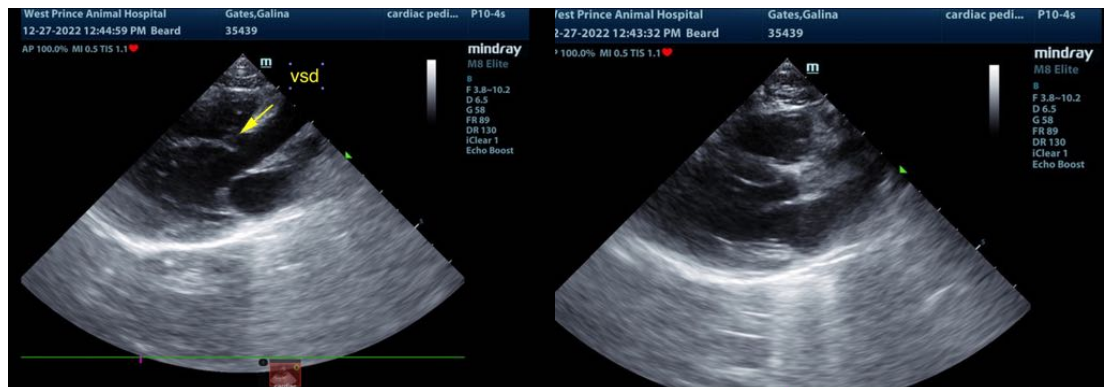
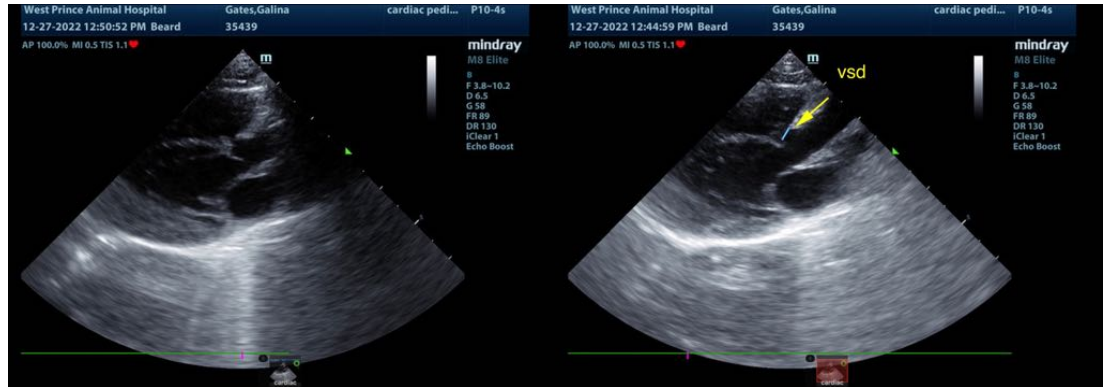
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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**  
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