



**PATIENT**

Onyx Sutch

**SPECIES**

Canine

**BREED**

Australian Cattle Dpg  
Mix

**SEX**

Spayed Female

**AGE**

11 Years

**WEIGHT**

55 pounds

**INTERPRETED BY**

Sara Brethel DVM,  
DACVIM (Cardiology)

**IMAGING PERFORMED BY**

Brandi Kurzowski

**HOSPITAL NAME**

Corfu Veterinary Clinic

**REFERRING VET**

Dr. Brooke Beatty

**INVOICE**

14531

**DATE**

03/23/26

**PRESENTING CLINICAL SIGNS**

- Annual screening BW showed mildly elevated cholesterol and ALT in November 2025
- Repeat BW 3/20 showed further increased ALT and cholesterol as well as elevated ALKP and GGT
- P has historical slow regrowth of hair, patchy hair on tail
- Echo- p gets annual echo- hx of low resting heart rate, no heart murmur, p does have occasional syncopal episodes which have been worse recently

Abnormal PE/Chem/CBC/UA Results: 11/28/25 Chem- ALT 123 U/L, Chol 391 mg/dL, Lipase 414 U/L CBC- WBC 5.5 k/uL T4- 2.7 ug/dL 3/20/26 Chem- ALT 226 U/L, ALP 322 U/L, GGT 30 U/L, Chol 1050 mg/dL CBC- WBC 5.4 k/uL, Eos- 0.08 k/uL T4- 0.6 ug/dL 4DX- Neg x4 Fecal- Pending (Idexx) UA- protein 100mg/dL, Rods present 11/23/25 ACTH- Pre- 2.3 ug/dL, Post- 16.3 ug/dL

**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	--	--	NM	--	39.58	--	NM
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT (kg)	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	~0.7	~0.6	25	4.0	3.89	2.35

**Cardiac Presentation**

The mitral valve leaflets are normal and there is no mitral regurgitation. There is no prolapse of the mitral valve leaflets. The left atrial size is normal. Left ventricular systolic and diastolic function is within normal limits. There is normal right atrial size without evidence of tricuspid regurgitation. There is no prolapse of the tricuspid valve leaflets and no evidence of pulmonary hypertension on today's evaluation. The right ventricle subjectively appears normal in structure and function. The aortic and pulmonic valves have normal morphology and the corresponding outflow velocities are within normal limits. There is no evidence of pulmonic or aortic insufficiency. The aorta appears normal. The pulmonary artery and associated branches appear normal. There is no evidence of pleural effusion, pericardial effusion, or intracardiac masses.

**ULTRASONOGRAPHIC FINDINGS**



## PATIENT

Onyx Sutch

## SPECIES

Canine

## BREED

Australian Cattle Dpg  
Mix

## SEX

Spayed Female

## AGE

11 Years

## WEIGHT

55 pounds

## INTERPRETED BY

Sara Brethel DVM,  
DACVIM (Cardiology)

## IMAGING PERFORMED BY

Brandi Kurzowski

## HOSPITAL NAME

Corfu Veterinary Clinic

## REFERRING VET

Dr. Brooke Beatty

## INVOICE

14531

## DATE

03/23/26

- Structurally normal heart.

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The heart is structurally normal. The cause of the persistently low heart rates and collapse episodes is not identified based upon the images provided. Given the history of the collapse episodes, I would recommend considering a Holter monitor, at least an electrocardiogram to further evaluate the patient's rhythm and underlying bradycardia. Considering an atropine response test if indicated and having the client obtain a video of the events for further clarification along with assessing a blood pressure.



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.

Sara Brethel DVM, DACVIM (Cardiology)

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