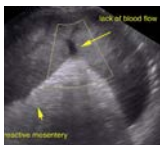
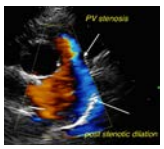
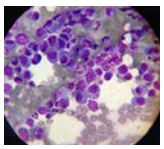
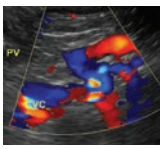
SonoPath
Clinical Sonography & Telecytology
EDUCATIONAL TELECONSULTATION SERVICES™

SonoPath.com
1-800-838-4268 info@sonopath.com

**PATIENT**
Gizmo Hosek

**SPECIES**
Canine

**BREED**
Chihuahua X

**SEX**
Neutered Male

**AGE**
10 Years

**WEIGHT**
19 Pounds

**INTERPRETED BY**
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)

**IMAGING PERFORMED BY**
Shari Reffi, CVT

**HOSPITAL NAME**
North Warren AH

**REFERRING VET**
Dr. Corrado

**INVOICE**
26197

**DATE**
10/11/21

## PRESENTING CLINICAL SIGNS

R/O CHF. Current meds: Meclizine, Prednisolone syrup, Gabapentin 50mg, Metro 250mg

## ULTRASONOGRAPHIC EXAMINATION OF THE HEART

| 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 | | | 1.1 | 1.1 | 37 | 69.5 | 0.29 |
| **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 | | | | |
| PATIENT | 200 | 1.0 | 1.0 | | 2.5 | 2.3 | |

### *Cardiac Presentation*

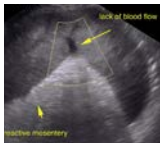
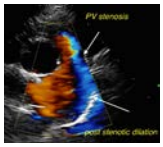
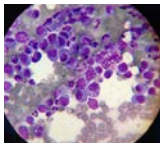
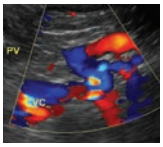
The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 different LA measurement methods. Chamber volumes and echogenicity were normal. The cranial and caudal **mitral** valve leaflets presented vegetative thickening consistent with endocardiosis. Doppler indicated measurable eccentric mitral valve insufficiency. The **left ventricle** presented thicknesses with linear contour and was not dilated nor restricted. The **myocardium** presented normal echogenicity without subjective evidence of significant fibrotic or ischemic disease. **Contractility** of the ventricular walls was adequate and in normal range for this patient evidenced by the fractional shortening measurement and subjective evaluation of the different regions of the myocardium. The **left ventricular outflow** tract demonstrated normal laminar flow and subjective structural integrity. The **right atrium** and auricle revealed normal size, structure and content. No evidence of masses was noted or chamber overload. **Tricuspid** valvular assessment demonstrated adequate linear morphology. The **right ventricle** was of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. **Pulmonic** tract assessment revealed normal valve structure, laminar flow, and diameter (approx.1:1 pa/ao ratio). No visible **pericardial** or free pleura fluid was noted. No echographically detectable evidence of infiltrative disease was visible. The cranial **mediastinum and pericardial regions** were free of masses in the visible window.

## ULTRASONOGRAPHIC FINDINGS

- Compensated mitral valve insufficiency (ACVIM B1)
- Overall normal cardiac structure and function

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

No evidence of left or right heart chamber enlargement, specifically left atrial enlargement suggestive of congestive heart failure. No other clinical issues such as systolic dysfunction or evidence of clinical pulmonary hypertension noted. Mitral valve insufficiency is present, yet the lack of the left atrial

SonoPath.com
1-800-838-4268 info@sonopath.com

**PATIENT**

Gizmo Hosek

**SPECIES**

Canine

**BREED**

Chihuahua X

**SEX**

Neutered Male

**AGE**

10 Years

**WEIGHT**

19 Pounds

**INTERPRETED BY**

R. McKenzie Daniel, DVM, DABVP (Canine and Feline)

**IMAGING PERFORMED BY**

Shari Reffi, CVT

**HOSPITAL NAME**

North Warren AH

**REFERRING VET**

Dr. Corrado

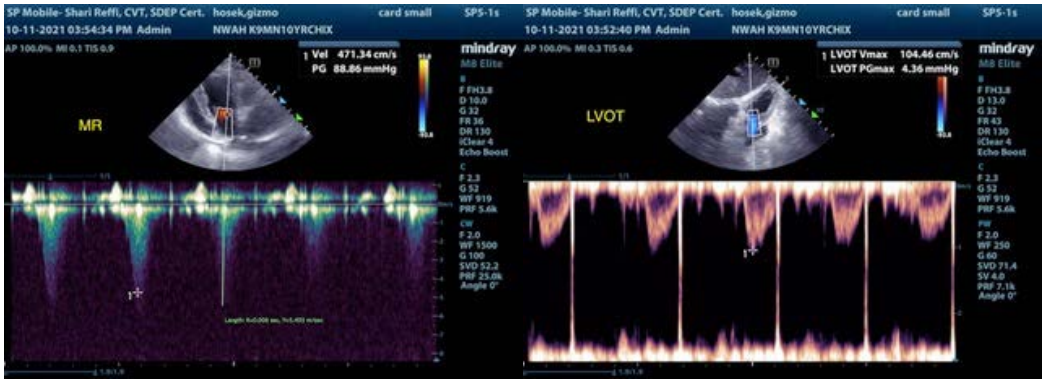
**INVOICE**

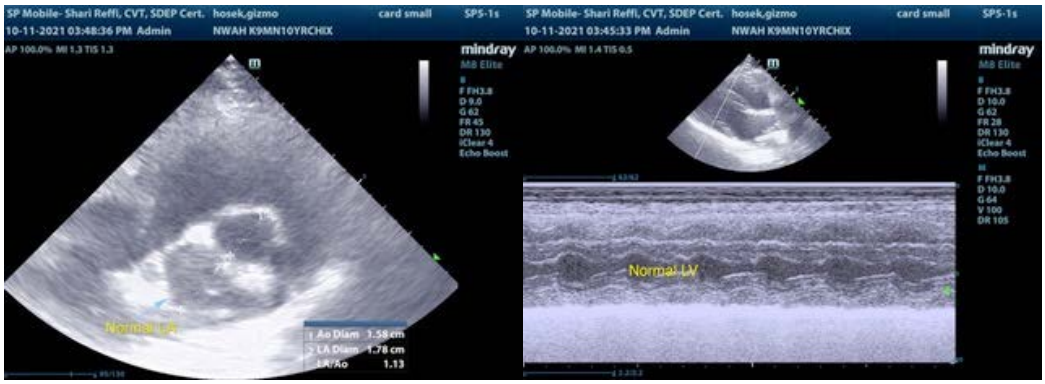
26197

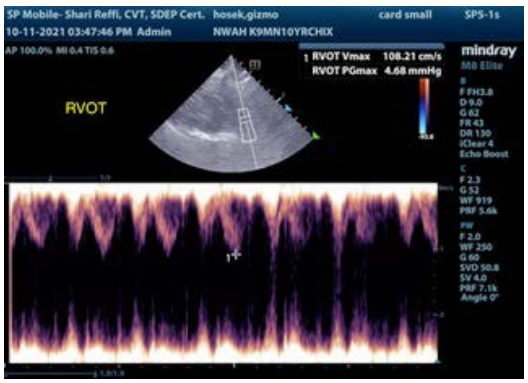
**DATE**

10/11/21

enlargement indicates that the risk of future complication owing to mitral valve insufficiency is low. No indication for cardiac medications. Recheck echocardiogram recommended in 6-12 months, sooner if clinical signs consistent with heart disease develop.




**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.

**R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)**
**info@SonoPath.com**