

**PATIENT PRESENTING CLINICAL SIGNS**

Leah Campos History: Grade IV heart murmur. Assess for anesthesia protocol

**SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

Canine

BREED

Maltese

SEX

Spayed Female

AGE

WEIGHT

10.8 lbs

INTERPRETED BY

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Jessica Miller, RDMS

HOSPITAL NAME

Westwood VH

REFERRING VET

Dr. Giammanco

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 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. Minor **tricuspid** insufficiency was noted. 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. Lung rockets were noted in the peripheral lung fields.

| CANINE                    | MR                   | TR                   | LA/AO               | LA/AO             | FS                              | EF                                    | EPSS                                  |
|---------------------------|----------------------|----------------------|---------------------|-------------------|---------------------------------|---------------------------------------|---------------------------------------|
| <b>CARDIAC PARAMETERS</b> | <b>VMAX</b><br>(m/s) | <b>VMAX</b><br>(m/s) | (Boon method)       | (Heart Base; Swe) | (%)                             | (%)                                   | (cm)                                  |
| <b>NORMAL PARAMETER</b>   | 4.5-5.5              | <2.7                 | 1.3                 | <1.6              | 28-40                           | 40-100                                | <0.6                                  |
| <b>PATIENT</b>            | 5.2                  |                      | 1.0                 | 1.3               | 54                              | 87                                    | NM                                    |
| CANINE                    | HR                   | AV                   | PV                  | BODY WEIGHT       | LA                              | LVIDd                                 | LVIDs                                 |
| <b>CARDIAC PARAMETERS</b> | (BPM)                | <b>VMAX</b><br>(m/s) | <b>MAX</b><br>(m/s) |                   | 2D short axis Base view<br>(cm) | Avg; 2D and m-mode short axis<br>(cm) | Avg; 2D and m-mode short axis<br>(cm) |
| <b>NORMAL PARAMETER</b>   | 50-100               | 0.7-1.7              | 0.7-1.6             |                   |                                 |                                       |                                       |
| <b>PATIENT</b>            | 130                  | 1.42                 |                     | 10.8              | 2.3 max                         | 1.5                                   |                                       |

**INVOICE ULTRASONOGRAPHIC FINDINGS**

92691 Stage B1 valvular disease.

DATE Lung rockets in the peripheral lung fields.

10/27/21



**PATIENT**

Leah Campos

**SPECIES**

Canine

**BREED**

Maltese

**SEX**

Spayed Female

**AGE**

**WEIGHT**

10.8 lbs

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Jessica Miller, RDMS

**HOSPITAL NAME**

Westwood VH

**REFERRING VET**

Dr. Giammanco

**INVOICE**

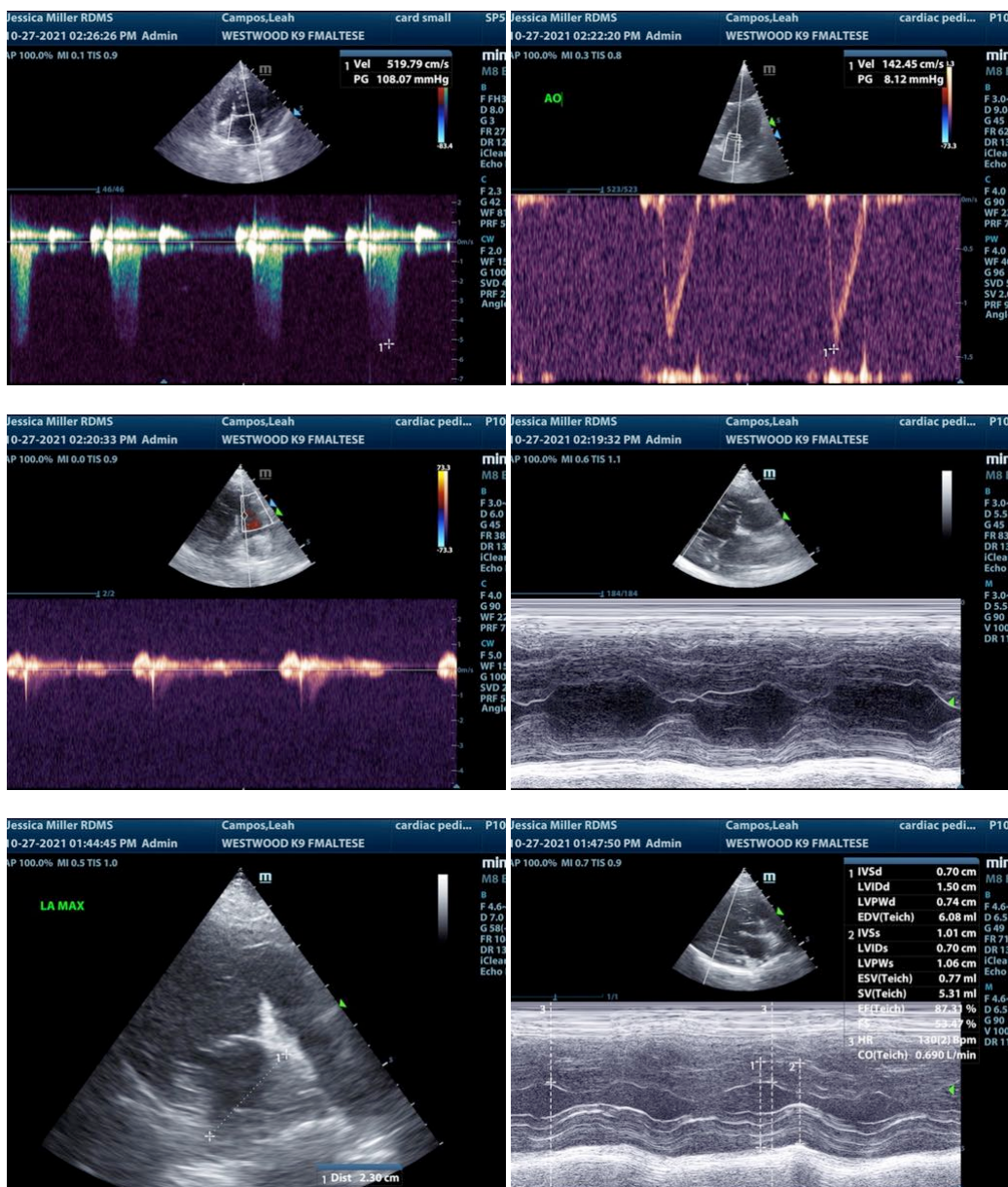
92691

**DATE**

10/27/21

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

If anesthesia is necessary, there is no overt contraindication to an anesthetic procedure. Suggested protocol includes Torbutrol premed, Propofol induction, and Isoflurane maintenance. Recheck echocardiogram in 6 months or earlier if murmur grade increases or clinical signs initiate. Chest radiographs are warranted to assess for primary respiratory disease. However, no clinical cardiac disease is noted at this time. Blood pressure measurements are recommended.





**PATIENT**

Leah Campos

**SPECIES**

Canine

**BREED**

Maltese

**SEX**

Spayed Female

**AGE**

**WEIGHT**

10.8 lbs

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING  
PERFORMED BY**

Jessica Miller, RDMS

**HOSPITAL NAME**

Westwood VH

**REFERRING VET**

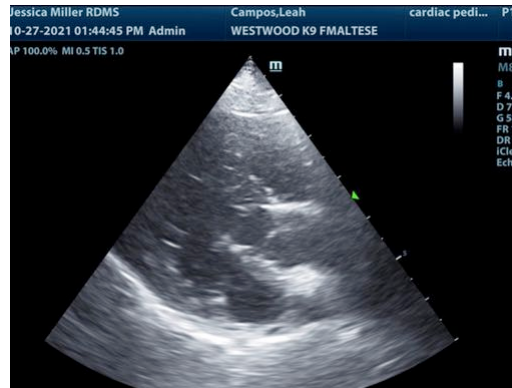
Dr. Giammanco

**INVOICE**

92691

**DATE**

10/27/21



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.

**Eric Lindquist, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com**  
info@SonoPath.com