

PATIENT

Gracie Diehl

SPECIES

Canine

BREED

Golden Retriever

SEX

Spayed Female

AGE

7 Years

WEIGHT

83 Pounds

INTERPRETED BY

Sara Brethel,
 DVM, DACVIM
 (Cardiology)

IMAGING PERFORMED BY

Andrea Nicastro, DVM,
 DACVIM

HOSPITAL NAME

Central Vet Hospital

REFERRING VET

Dr. Ott

INVOICE

35111

DATE

12/29/25

PRESENTING CLINICAL SIGNS

History: Presented today for acute onset lethargy, inappetence, recumbency T - 103.8 Tachycardic and tacky gums on presentation.

Abnormal PE/Chem/CBC/UA Results: IH labs: HCT - 33% Platelets - 33,000 ALP in 300s ALT in 100s Mild azotemia Normal lytes Albumin - 2.6

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 | ~5.0 | -- | NM | 1.16 | 51.61 | -- | 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 | -- | ~2.0 | ~1.0 | 37.72 | 4.3 | 3.1 | 1.5 |

Cardiac Presentation

The mitral valve leaflets are severely thickened with evidence of an oscillating vegetative lesion on the atrial aspect of the mitral valve leaflet, and there is at least mild mitral regurgitation eccentrically directed. There is no prolapse of the mitral valve leaflets. The left atrial size is normal. Left ventricular dimensions suggest left ventricular underloading. There is normal right atrial size without tricuspid regurgitation. There is no prolapse of the tricuspid valve leaflets and no evidence of pulmonary hypertension based upon tricuspid regurgitant velocities. 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

- Severe mitral valve leaflet thickening, concerning for a vegetative lesion
- Normal left atrial size
- Left ventricular underloading



PATIENT

Gracie Diehl

SPECIES

Canine

BREED

Golden Retriever

SEX

Spayed Female

AGE

7 Years

WEIGHT

83 Pounds

INTERPRETED BY

Sara Brethel,
 DVM, DACVIM
 (Cardiology)

IMAGING PERFORMED BY

Andrea Nicastro, DVM,
 DACVIM

HOSPITAL NAME

Central Vet Hospital

REFERRING VET

Dr. Ott

INVOICE

35111

DATE

12/29/25

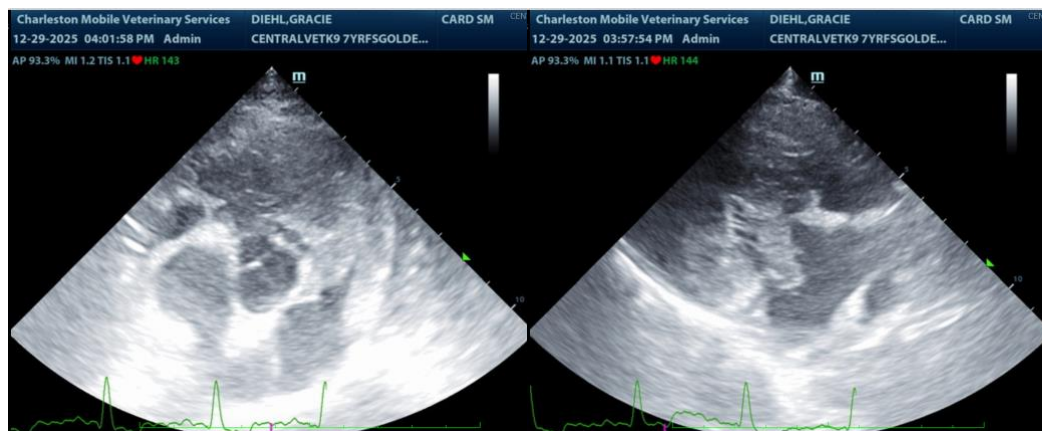
INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

There appears to be a vegetative lesion on the mitral valve leaflets, likely causing the patient's clinical signs. A primary source is not known at this time. Recommend emergent referral for stabilization and therapy. Therapy, such as intravenous broad-spectrum antibiotics, after obtaining, ideally, 2 blood cultures at least an hour apart from 2 separate venipuncture sites. Recommend obtaining urine for a urine culture as well and ensuring the liver abnormalities are not abscesses.

Long term prognosis with mitral valve endocarditis can be over a year, with prompt response and therapy, with a good response to treatment. Complications, such as congestive heart failure, arrhythmias, and failure to respond are possible. Unfortunately, the patients are at risk for sudden cardiac death and further embolization.

If unable to perform referral, recommend at least trying to obtain a urine culture, inserting broad spectrum antibiotics with fluroquinolone and beta-lactam. I recommend IV antibiotic therapy for 72 hours and then oral antibiotics for 12 weeks.

If not moving forward with referral, recommend a recheck echo in 2-3 months. There may be permanent damage to the mitral valve leaflets and resolution of the vegetative lesions may not occur, but they should decrease in size.

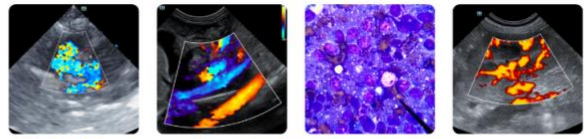


The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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



PATIENT

Gracie Diehl

SPECIES

Canine

BREED

Golden Retriever

SEX

Spayed Female

AGE

7 Years

WEIGHT

83 Pounds

INTERPRETED BY

Sara Brethel,
DVM, DACVIM
(Cardiology)

**IMAGING
PERFORMED BY**

Andrea Nicastro, DVM,
DACVIM

HOSPITAL NAME

Central Vet Hospital

REFERRING VET

Dr. Ott

INVOICE

35111

DATE

12/29/25