#### Cardiologic examination report

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| καρτα2 | Exam date : 26.10.2019 **---**  **Ms. Helga Beibl**  **« Chipsy»**  Mongrel,  female, 5.4 kg  Age: 14 yo |

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*Master of Science in Veterinary Internal Medicine,*

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*European Society of Veterinary Cardiology member*

** Medical history – clinical examination**

**History :**

* Referring physician : **Dr. Evi Pournara**
* Cardiologic re-examination in account of previous degenerative mitral valve disease diagnosis, 3/5 echocardiographic stage, B2 clinical stage (*ACVIM consensus 2019*).
* Last examination: 19.06.2018
* The dog has poor appetite and depression.
* Radiographic examination: Yes.
* Cardiac medication so far: **Furosemide** (2 mg/kg po BID), **Benazepril** (0.23 mg/kg po SID), **Pimobendan** (0.33 mg/kg po BID)

**Clinical findings** :

* Cardiac auscultation revealed a holosystolic, 4th degree (4/6) regurgitant murmur, with a PMI at the left apex of the heart, at the mitral valve area.
* Arrhythmia.
* Lung auscultation : pulmonary crackles and ronchi.
* Moderate cough reproduction during tracheal palpation.
* Normal femoral pulse.
* Normal mucous membranes.
* Severe dental calculus.
* Normal body weight (BS : 3/5).
* Normal peripheral lymph nodes size

 **Echocardiography exam results**

The examination was performed with cardiac single crystal phased array probes (P 2-9 & P 1-5 mHz).

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| **Parameters** |  | **Parameters** |  |
| RVDd | 3.7 mm | Ao Vmax | Vmax = 0.91 m/s |
| IVSd | 8.9 mm | P Vmax | Vmax = 0.68 m/s |
| LVDd | 34 mm | Ant. mitral leaflet | 4.4 mm |
| PWd | 6.3 mm | Post. mitral leaflet | 3.5 mm |
| IVSs | 14.2 mm | Mitral E/A wave | 1.39/1.35 (1.03) |
| LVDs | 10.8 mm | DT | 64 ms |
| PWs | 13.5 mm | RA/LA | 0.6 |
| FS | 68 % | Mit. reg. Vmax | 5.11 m/s |
| LA- Ao | 24.4-14.1 mm | Tric. reg. Vmax | - m/s |
| LA/Ao | 1.8 | PT/Ao | 1 |

## Interpretation

Περιγραφή: Περιγραφή: ac387 **Right parasternal and transventricular short-axis view (m-mode):**

* Increased end-diastolic & normal end-systolic LV dimensions.
* The contractility of the LV is WNL.
* Normal right ventricular dimensions.

Περιγραφή: Περιγραφή: ac387 **Left atrium examination presents:**

* The left atrial dimensions are increased at the end-systole (LA/Ao = 2.3 >1.6).
* Significant regurgitant volume through the mitral valve to the left atrium is present on colour flow Doppler examination.

Περιγραφή: ac387 **Right parasternal and transaortic short-axis view:**

* No anatomic lesions were found at the level of the pulmonary annulus.
* Normal pulmonic flow.
* Mild pulmonic regurgitation is present.

Περιγραφή: ac387 **Right parasternal long-axis four & five chamber views:**

* Mitral valve (anterior leaflet) shows severe thickening and prolapse, compatible with degenerative lessions.
* Normal right atrial dimensions.
* Decreased right to left atrial ratio .
* No aortic regurgitation is present.
* No interventricular nor interatrial septal defect was found.

Περιγραφή: ac387 **Left parasternal long-axis four & five chamber views:**

* Luminar aortic flow at the level of the aortic annulus.
* Increased E transmitral peak flow velocity.
* Significant tricuspid regurgitation is present on colour-flow Doppler.

Περιγραφή: Περιγραφή: ac387 **Other points:**

* No pericardial nor pleural effusion is present.
* No pulmonary hypertension is present.
* Sinus rhythm with a few ventricular premature complexes of left origin during the examination. Heart rate: 138-152 bpm.

### Conclusions

* **Chipsy presents degenerative mitral valve disease** of **4th** echocardiographic stage (**4/5**); **C** clinical stage (*ACVIM Consensus 2019*), with significant pulmonary hypertension (PG: **72**mmHg).
* A significant aggravation, because of chordae tendineae rupture and congestive heart faillure, is presented.
* Prognosis remains cautious in this case.
* A 3rd echocardiographic examination is recommended after 6 months **(December 2019)**.
  + **Cardiac medication :**

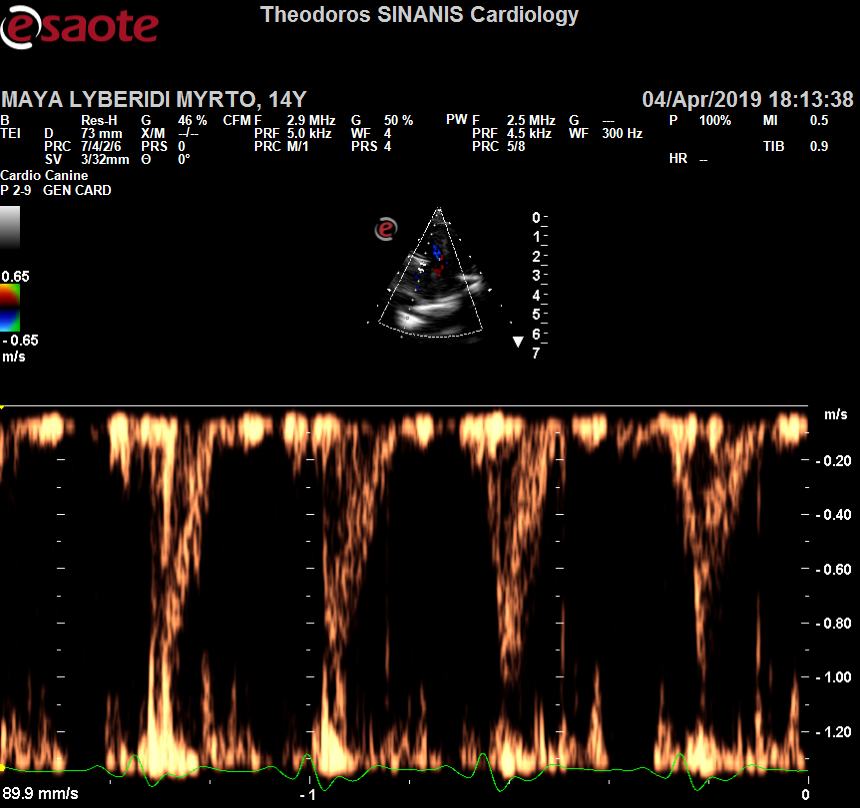
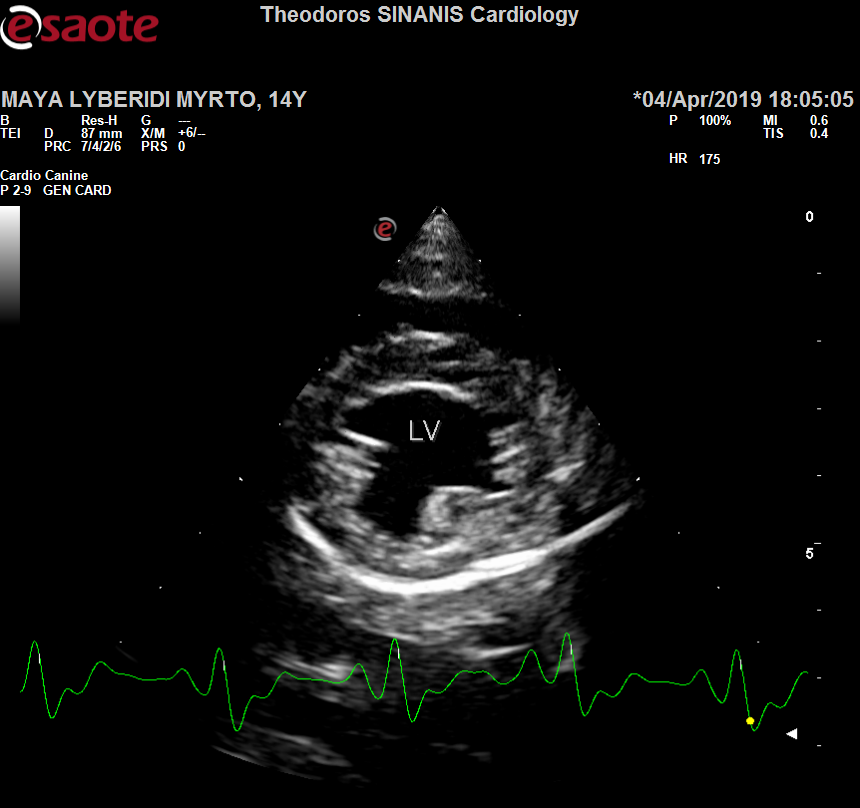
1. **Furosemide** (2 mg/kg po SID)
2. **Pimobendan** (0.33 mg/kg po TID)
3. **Benazepril** (0.23 mg/kg po SID)
4. **Spironolactone** (1.8 mg/kg po SID)
5. **Torasemide** (0.23 mg/kg po BID)

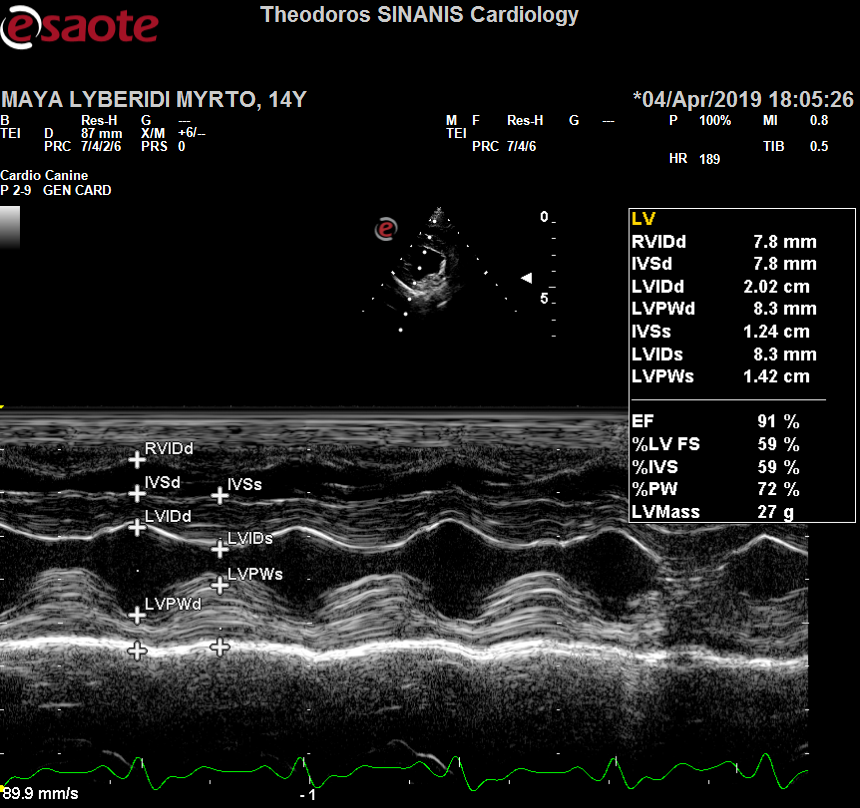
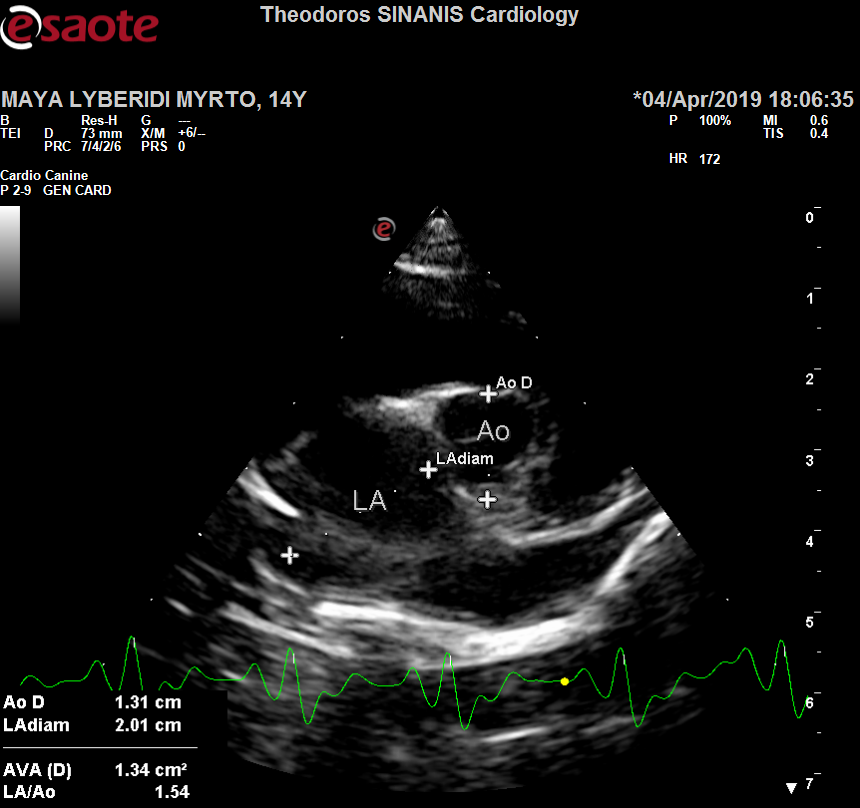
**Yours sincerely:**

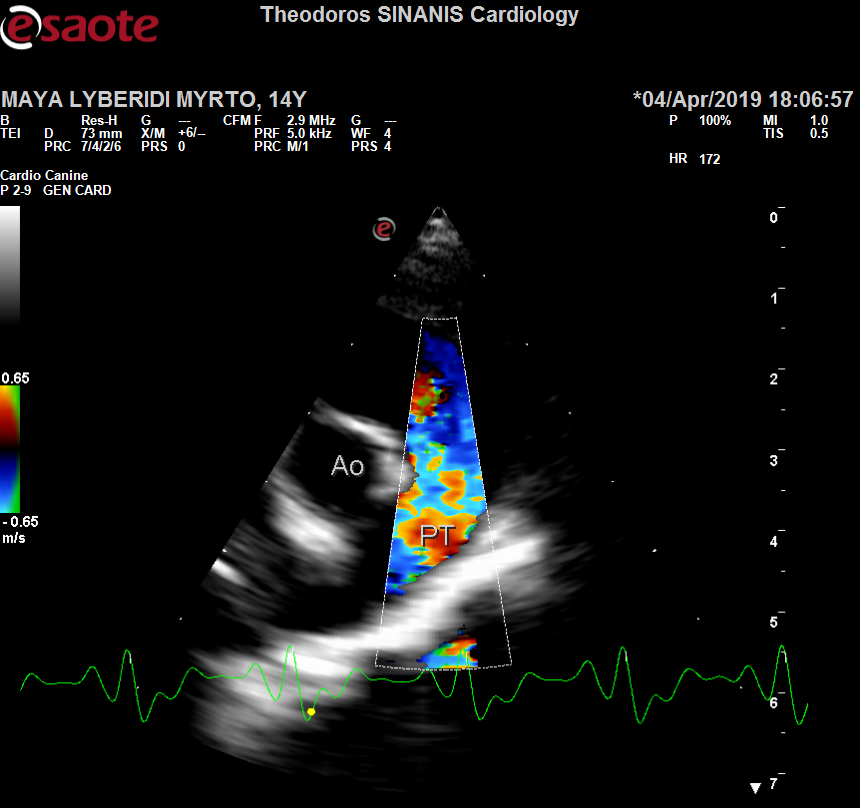
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