#### Cardiologic examination report

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| καρτα2 | Exam date : 9.10.2019 **---**  **Ms. Serkan Sahan**  **« Kalos»**  Pekingese,  male 5.6 kg  Age: 13 yo |

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** Medical history – clinical examination**

**History :**

* Referring physician : **Veterinary Center – Michael Flarakos.**
* Cardiologic examination in account of previous murmur auscultation, during routine clinical examination.
* Chronic cough & syncopes(?).
* The dog is in a good general status and has a good appetite.
* Radiographic examination: ND
* Cardiac medication so far: **None.**

**Clinical findings** :

* Cardiac auscultation revealed a holosystolic, 4th degree (4/6) regurgitant murmur, with a PMI at the right apex of the heart, at the tricuspid valve area.
* Sinus arrhythmia.
* Normal femoral pulse.
* Lung auscultation was unremarkable.
* Moderate cough reproduction during tracheal palpation.
* Normal mucous membranes.
* Severe dental calculus.
* Normal body weight (BS : 3.5/5).
* 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 | 6.2 mm | Ao Vmax | Vmax = 0.92 m/s |
| IVSd | 6.6 mm | P Vmax | Vmax = 0.71 m/s |
| LVDd | 24.2 mm | Ant. mitral leaflet | 3 mm |
| PWd | 7.4 mm | Post. mitral leaflet | 2.2 mm |
| IVSs | 9 mm | Mitral E/A wave | 0.78/0.56 (1.32) |
| LVDs | 12 mm | DT | 54 ms |
| PWs | 12.8 mm | RA/LA | 0.9 |
| FS | 51 % | Mit. reg. Vmax | - m/s |
| LA- Ao | 15-16.4 mm | Tric. reg. Vmax | 4.28 m/s |
| LA/Ao | 0.9 | PT/Ao | 1 |

## Interpretation

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

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

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

* The left atrial dimensions are normal at the end-systole.
* No 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.
* No pulmonic regurgitation is present.

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

* Mitral valve (anterior leaflet) shows severe thickening and moderate prolapse, compatible with degenerative lessions.
* Increased right atrial dimensions.
* Increased 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.
* Normal transmitral flow velocity.
* Marked 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 (**sinus tachycardia**) during the examination. Heart rate: 120-128 bpm.

### Conclusions

* **Degeneration of the tricuspid valve, with right atrial enlargement**.
* Tricuspid valve disease appears rarely in aged, small sized dogs and is characterised by degeneration of one or all tricuspid leaflets, with or without valve prolapse.
* The prognosis is usually favorable, especially in early stages without clinical signalment and it is characterized by good quality of life.
* A 2nd echocardiographic examination is recommended after 6 months **(December 2020)**.
  + **Cardiac medication :**

1. **Benazepril** (0.22 mg/kg po SID),
2. **Spironolactone** (1.78 mg/kg po SID)
3. **Pimobendan** (0.2 mg/kg po BID)

**Yours sincerely:**

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