

**CASE NUMBER: O16584**

**DATE: 16.02 2017**

**PATIENT: Finnish Lapphund, sterilized female, 7 years old**

## **NECROPSY REPORT**

### **MACROSCOPIC FINDINGS:**

**1 § Post mortal changes:** Discrete

**2 § Nutritional status:** Normal

**3 § Excretions from natural orifices and visible mucosal areas:**  
No significant pathological changes.

**4 § Fur coat, skin, subcutaneous tissues and lymph nodes of the trunk and head:**  
No significant pathological changes.

**5 § Muscles, bone structure, joints and adipose tissue:**  
Pathological findings: the L7-S1 intervertebral disc is ventrally displaced appr. 5 mm, with an intact annulus fibrosus and a dry, fragmented nucleus pulposus.

**6 § Topography of internal organs, contents of body cavities, serosal surfaces:**  
No significant pathological changes.

**7 § Organs of the head (oral cavity, tongue, teeth, salivary glands, sinuses, pharynx & larynx):** No significant pathological changes.

**8 § Circulatory organs (heart & pericardium, spleen, thymus, blood, bone marrow, vessels and lymph nodes of the internal organs):** Pathological findings: scattered supranumerous moderatorbands multifocally within both heart chambers.

**9 § Respiratory organs (lungs, pleura and trachea):** No significant pathological changes.

**10 § Digestive organs (oesophagus, forestomachs, stomach, gut, mesenterium, liver, gallbladder, bile ducts and pancreas):** No significant pathological changes.

**11 § Urogenitals (kidneys, bladder, ureters, male and female genitals and mammary gland):**  
No significant pathological changes.

**12 § Endocrine organs (adrenals, thyroid, parathyreoid, etc.):**  
No significant pathological changes.

**13 § Central nervous system:** No significant pathological changes.

### **HISTOLOGICAL FINDINGS:**

Heart (left and right ventricular wall, septum) very mild multifocal chronic lymphoplasmacytic myocarditis.

Liver: moderate centrilobular vacuolar degeneration (hydropic degeneration), moderate copper accumulation centrilobularly.

Kidney: diffuse severe vacuolization of the epithelium within the Henle's loop.

Stomach: mild chronic diffuse lymphoplasmacytic gastritis.

**OTHER FINDINGS (BACTERIOLOGY, VIROLOGY, and SEROLOGY):**

Liver enzymes within reference range.

**PATHOLOGISTS CONCLUSIONS:**

The main autopsy finding, and cause for the dog's signs of muscle loss and hind limb weakness, is a lumbosacral stenosis due to a protruded intervertebral disc. The protruded disc has compressed the spinal cord in this area.

Additionally, mild inflammatory lesions, which could have been asymptomatic, were seen in the heart. Myocarditis is commonly a sign of a previous generalized infection. The centrilobular vacuolar degeneration in the liver may be secondary to a mild heart injury. The liver also contained excessive copper. Copper accumulation may start a chronic hepatitis in dogs, but the patient showed no hepatic changes indicating this.

Tissues not recommended for further use: heart, stomach, spinal cord (lumbal).

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