



**PATIENT**

Michelle Martin

**PRESENTING CLINICAL SIGNS**

Presented for first puppy exam. No concerns. E/D fine. no v/d/c/s o has had for 3 weeks  
 Abnormal PE/Chem/CBC/UA Results: Abnormally short and protruding xiphoid process  
 Suspicious for reducible inguinal hernia bilaterally

**SPECIES**

Canine

**RADIOGRAPHIC STUDY OF THE THORAX**

Right/lateral and ventrodorsal whole body views totaling 2 images available for review.

**BREED**

Pug

Thoracic interpretation requested.

**RADIOGRAPHIC FINDINGS**

Baseline vertebral heart score is 9.1. There is no evidence of abnormality in the shape of the cardiac silhouette. No specific chamber enlargement is noted. The pulmonary vasculature presents within normal limits.

**SEX**

Female Intact

The tracheal course is within normal limits. Mild generalized tracheal hypoplasia with a tracheal index of 0.11 is noted.

**AGE**

10 Weeks

Redundancy of the cranial thoracic esophagus is indicated by a pocket of gas within the esophagus.

**INTERPRETED BY**

Nele Eley, DVM  
 Dr. med. Vet. DipECVDI

At least two sternebrae are missing. Only six sternebrae are seen. The usual number is seven sternebrae plus manubrium and xiphoid. The xiphoid process is absent.

The thoracic vertebral count is reduced to 12 regularly shaped thoracic vertebrae.

The bronchopulmonary structures present within normal limits.

**HOSPITAL NAME**

Companion Animal  
 Clinic

A thymic remnant is widening the cranial mediastinum mildly which is considered within age related normal limits.

**RADIOGRAPHIC DIAGNOSIS**

- Reduced number of sternebrae and absent xiphoid process.
- Reduced thoracic vertebral count of 12.
- Generalized tracheal hypoplasia – within breed related limits.
- Breed related redundancy of the esophagus.

**REFERRING VET**

Varinia Acosta

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**INVOICE**

570057

Sternal abnormalities are common in brachycephalic dogs and may be associated with midline fusion defects such as ventral or inguinal hernia. Correlation with the clinical palpation is required.

**DATE**

3-3-23

The reduced thoracic vertebral count does not necessarily have any clinical impact.

The tracheal hypoplasia is still within the reference range for the breed.



**PATIENT**

No radiographic evidence of cardiovascular or bronchopulmonary abnormality is seen.

Michelle Martin

**SPECIES**

Canine

**BREED**

Pug

**SEX**

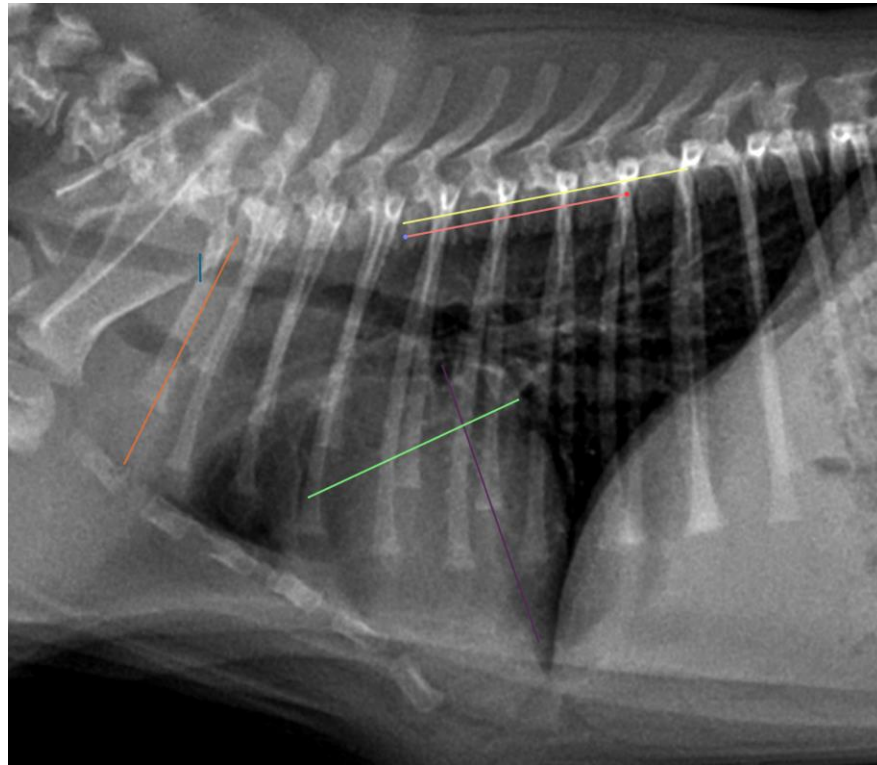
Female Intact

**AGE**

10 Weeks

**INTERPRETED BY**

Nele Eley, DVM  
Dr. med. Vet. DipECVDI



**HOSPITAL NAME**

Companion Animal  
Clinic

**REFERRING VET**

Varinia Acosta

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.

**Nele Eley**, DVM, Dr. med. vet., DipECVDI  
European Specialist in Veterinary Diagnostic Imaging, Cert. Radiology,  
Senior lecturer University of Giessen, Germany, Veterinary Faculty, Department of Radiology  
Nele.Eley@sonopath.com

**INVOICE**

570057

**DATE**

3-3-23