



**PATIENT PRESENTING CLINICAL SIGNS**

Pepa Massa Acute onset of pain and lethargy. rDVM diagnosed hemivertebrae on x-ray. Wanted CT to confirm and determine surgical possibility

**SPECIES COMPUTED TOMOGRAPHIC STUDY OF THE SPINE**

Canine Plain and post contrast studies in soft tissue and bone windows available for review.

**BREED COMPUTED TOMOGRAPHIC FINDINGS**

Frenchie The CT study reveals narrowing of the intervertebral disc space C2/3 with extrusion of mineral attenuating material into the ventral epidural space. The material presents mild caudal migration over the cranial half of C3. Approximately 30% of the vertebral canal's cross sectional are occupied by the extruded material and dorsal deviation and compression of the spinal cord is seen.

**SEX**

FS Multiple intervertebral discs throughout the cervical, thoracic, and lumbar spine present mineralizations.

**AGE**

3.5 Years Multiple congenital vertebral malformation within the thoracic spine is seen with T4 presenting a right and ventral hemivertebra, T4 is a dorsal hemivertebra, T5 is a butterfly vertebra, T6 is a short vertebra, T7 and T8 are butterfly vertebrae, and T12 is a right and ventral hemivertebra. Moderate mid and caudal thoracic kyphosis is seen as well as stenosis and moderate mid thoracic scoliosis.

**INTERPRETED BY**

Nele Eley, DVM  
Dr. med. Vet. DipECVDI

Right sided vertebral facet hypoplasia is seen between T13 and L1.

**COMPUTED TOMOGRAPHIC DIAGNOSIS**

- Multifocal chondroid disc degeneration.
- C2/3 intervertebral disc extrusion with moderate spinal cord compression.
- Multiple congenital vertebral malformations within the thoracic spine from T4-T8 and T12 with mid and caudal thoracic kyphosis, stenosis, and mid thoracic scoliosis.

**HOSPITAL NAME**

Bluegrass Veterinary  
Specialists

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**REFERRING VET**

Roan

The upper cervical disc extrusion with moderate spinal cord compression at C2/3 is likely the underlying cause of the clinical signs.

**INVOICE**

53828

Moderate kyphosis and vertebral canal stenosis is seen within the mid and caudal thoracic spine secondary to multiple congenital vertebral malformations. However, these are rarely the cause of the clinical signs unless tethered cord syndrome or other secondary additional stenosis develops.

**DATE**

8-30-22



**PATIENT**

Pepa Massa

**SPECIES**

Canine

**BREED**

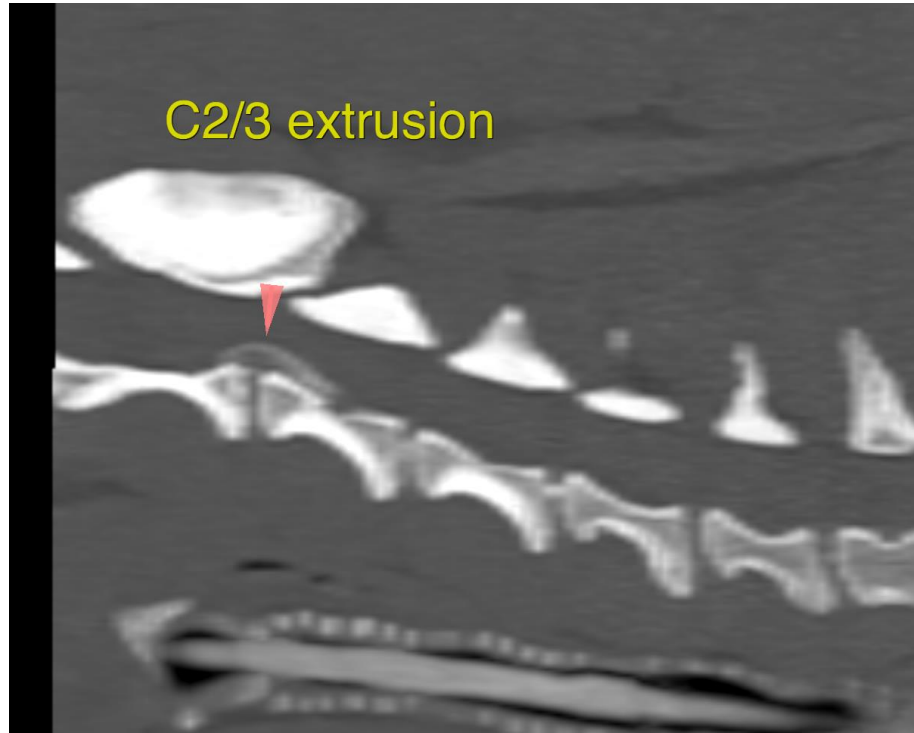
Frenchie

**SEX**

FS

**AGE**

3.5 Years



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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.

**HOSPITAL NAME**

Bluegrass Veterinary  
Specialists

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.

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**REFERRING VET**

Roan

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