



PATIENT

Oliver Maurano

PRESENTING CLINICAL SIGNS

5 week history of neck pain which responds to previcox and gabapentin. Previous Hemilaminectomy in Aug 2022 with complete clinical recovery.
 Abnormal PE/Chem/CBC/UA Results: Exam reveals mildly restricted range of motion in the neck Localization of the cervical spine.

SPECIES

Canine

COMPUTED TOMOGRAPHIC STUDY OF THE CERVICAL THORACIC AND LUMBAR SPINE

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

BREED

French Bulldog

COMPUTED TOMOGRAPHIC FINDINGS

The left tympanic bullae is filled with fluid attenuation contrast negative material. The right tympanic bullae presents within normal limits.

SEX

MN

Extrusion of isoattenuating intervertebral disc material into the ventral epidural spaces noted between C4/C5. The vertebral canals cross section of the area is reduced by ~30%. Most of the material is in the ventral epidural space. The volume of the extrusion is slightly larger on the right hand side.

AGE

4yr

Overall moderate dorsal deviation and compression of the spinal cord are seen. Vertebral end plate sclerosis, intervertebral disc space collapse and a concave defect are seen in the dorsal aspect of the cranial vertebral end plate of C5. Smooth new bone formation is present emerging from the vertebral end plates ventrally.

INTERPRETED BY

Nele Eley, DVM
 Dr. med. Vet. DipECVDI

Early spondylosis deformans is seen between C2-3, C6-7, C7-T8. Mild intervertebral protrusions are present between C6-7, C7-T8. Mineralization of the intervertebral disc T3-4 is seen, T5-T8 are hemivertebrae.

HOSPITAL NAME

Animal Health
 Partners

Vertebral spinal kyphosis and multiple spondyloses are seen between T5-T8. The patient has a history of prior hemilaminectomy right hand sided at T12-13. A mild amount of residual intervertebral disc material is seen in the right ventral epidural space and mineralized. No significant spinal cord compression is noted here.

REFERRING VET

Dr. Greg Kilburn

Dorsal longitudinal ligament mineralization is noted between T11-12, T13-L1, L1-2, L4-5. The intervertebral discs L5-6, L6-7 are mineralized.

A vacuum phenomenon and moderate protrusion as well as spondylosis deformans are seen at the lumbosacral junction.

INVOICE

14593ag

Osseous remodeling of the odontoid peg was present.

COMPUTED TOMOGRAPHIC DIAGNOSIS

DATE

08/12/2023



PATIENT

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- Suspect acute or acute on chronic intervertebral disc extrusion with moderate spinal cord compression between C4-5 with end plate failure of the cranial vertebral end plate C5.

SPECIES

Canine

- History of hemilaminectomy T12-13. No evidence of residual or new extrusion/compression.
- Mild intervertebral disc protrusion C6-7, C7-T1.
- Moderate chronic intervertebral disc protrusion and degenerative disc disease L7-S1.
- Multiple congenital vertebra malformation with kyphosis and multiple spondyloses T5-8.

BREED

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- Multifocal chondroid disc degeneration.
- Left hand sided otitis media.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

SEX

MN

The CT findings suggest the presence of moderate compressive myelopathy in the cervical spine between C4-5 secondary to intervertebral disc extrusion.

AGE

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The disease may be acute on chronic owing to the associated vertebral end plate changes and spondyloses deformans which suggests longer standing degenerative disc disease which may now exacerbated to an extrusive event.

INTERPRETED BY

Nele Eley, DVM
Dr. med. Vet. DipECVDI

Vertebral end plate failure is the most likely cause of the changes of the cranial vertebral end plate of C5. Schmorl nodes and low grade discospondylitis cannot be ruled out entirely but are thought less likely.

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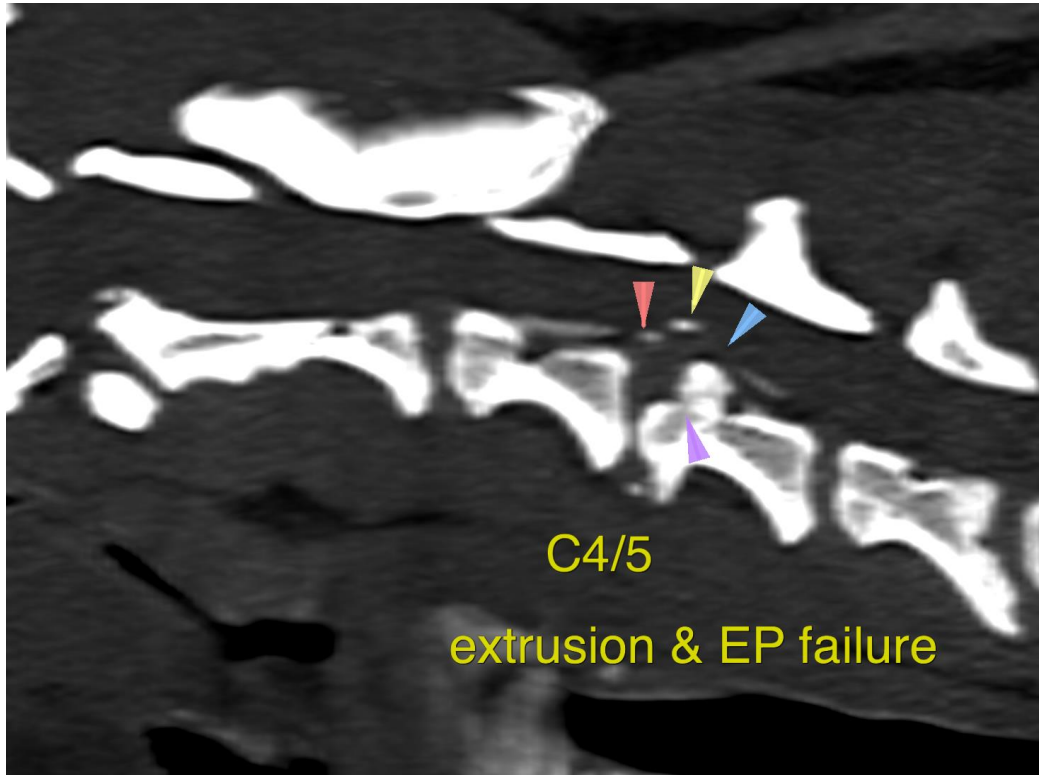
French Bulldog

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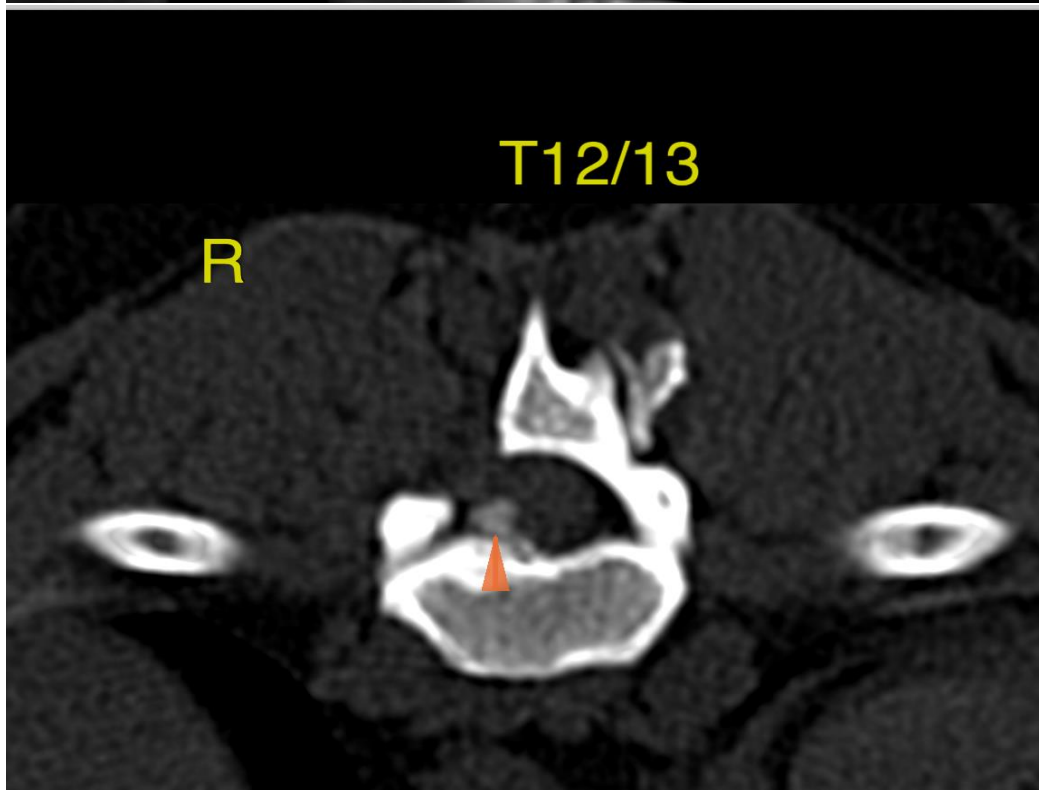
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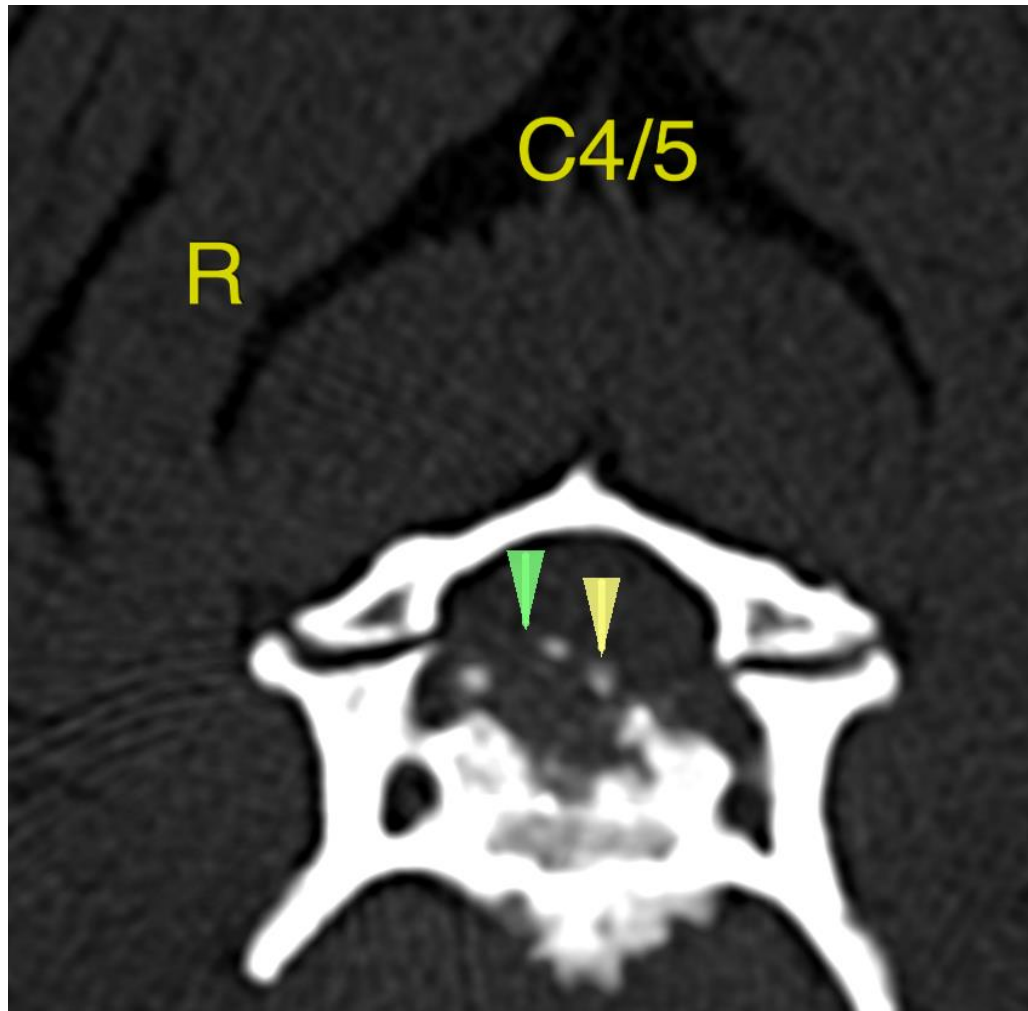
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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