



PATIENT PRESENTING CLINICAL SIGNS

Sally Fergus Progressive pelvic limb ataxia since December. In the last few weeks has started declining more quickly.

SPECIES MAGNETIC RESONANCE IMAGING STUDY OF THE THORACOLUMBAR SPINE

Canine Plain and post contrast study with T2-weighted, T1-weighted, plain and post contrast with and without fat saturation, and myelographic sequences available for review.

BREED MAGNETIC RESONANCE IMAGING FINDINGS

Pug The patient has only 6 regular shaped lumbar vertebrae and 13 thoracic vertebrae.

SEX

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Moderate to severe teardrop shaped extension of the dorsal and left lateral subarachnoid space is seen within the caudal thoracic spine level with T11. There is moderate to severe ventral deviation and compression of the spinal cord secondary to the dilation of the thecal space. Moreover, the intervertebral disc T10/11 shows moderate protrusion into the ventral epidural space which adds to the spinal cord compression. The spinal cord is reduced in diameter. Dilation of the central canal is noted between T10 and T11 as well as hyperintensity within the spinal cord between T10 and T11 circumferential to the dilated central canal accentuated in the gray matter.

AGE

10

The intervertebral discs T9/10 and T11/12 present mild protrusion.

INTERPRETED BY

Nele Eley, DVM
Dr. med. Vet. DipECVDI

Severe chronic intervertebral disc protrusion with dorsal deviation and compression of the cauda equina nerve fibers is seen between the 6th (last lumbar vertebra) and the sacrum.

Mild intervertebral disc protrusions are present between L1/2, L2/3, and L3/4.

MAGNETIC RESONANCE IMAGING DIAGNOSIS

HOSPITAL NAME

Animal Health Partners

- Arachnoid diverticulum with moderate to severe compressive myelopathy in the caudal thoracic spine level with T11.
- Suspect spinal cord edema versus atrophy level with T10/11.
- Moderate chronic intervertebral disc protrusion T10/11.
- Mild chronic intervertebral disc protrusions T9/10, T11/12, L1/2, L2/3, L3/4.
- Severe degenerative lumbosacral stenosis with cauda equina compression L6/S1.
- Reduced vertebral count in the lumbar spine of 6 regular lumbar vertebrae.

REFERRING VET

Dr. Alison Little

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

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The MRI study reveals moderate to severe spinal cord compression secondary to arachnoid diverticulum within the caudal thoracic spine at T11. Moderate T10/11 intervertebral disc protrusion adds to the compression of the spinal cord. There appears to be parenchymal volume loss of the spinal cord as indicated per the dilation of the central canal. This may be transient or permanent and the signal intensity of the spinal cord between T10 and T11 may represent uncomplicated edema or irreversible atrophy of the spinal cord.

DATE

3-25-23

Note the concurrent presence of severe degenerative lumbosacral stenosis which may contribute to the clinical signs as well.



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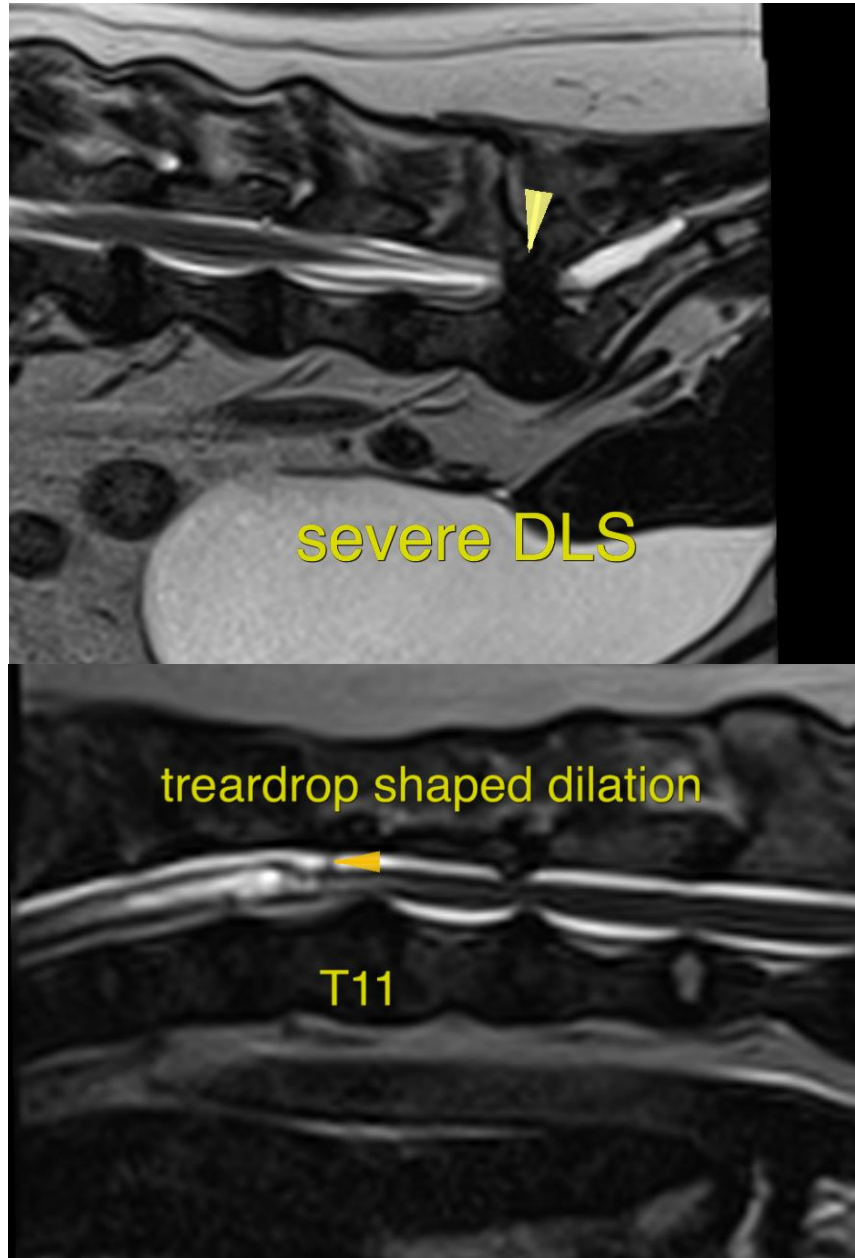
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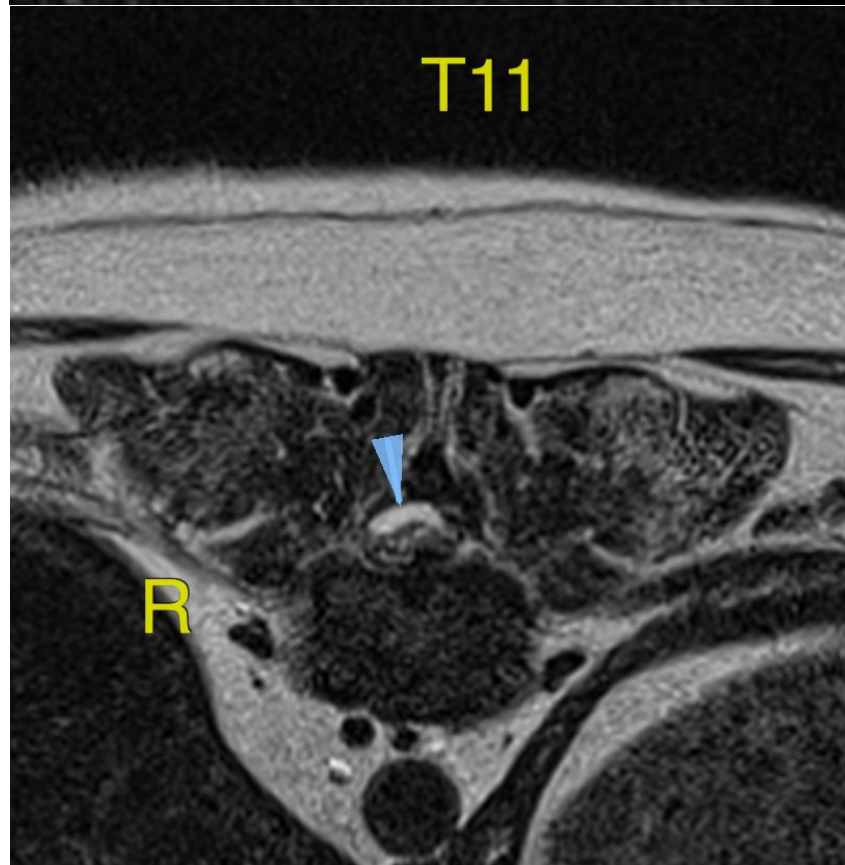
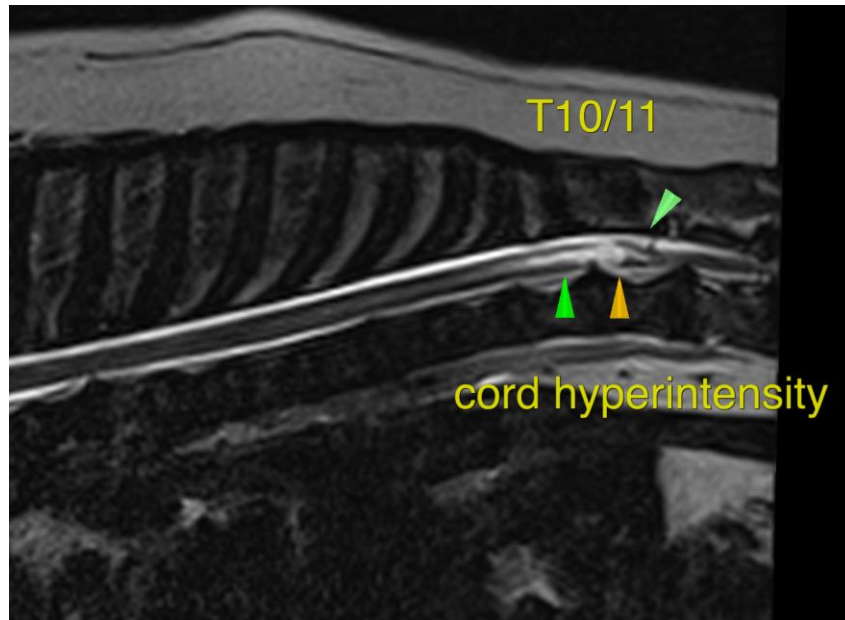
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PATIENT

Sally Fergus

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.

SPECIES

Canine

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