



PATIENT PRESENTING CLINICAL SIGNS

PATIENT
Penny Webster

SPECIES
Dog

BREED
Bernese Mountain

SEX
Female Spayed

AGE
8 Years

INTERPRETED BY
Nele Eley, DVM
Dr. med. Vet. DipECVDI

HOSPITAL NAME
Animal Health Partners

REFERRING VET
Dr. Alison Little

INVOICE
51571

DATE
4-18-22

2017: fecal incontinence 2019: urinary incontinence then start to show dragging of the right pelvic limb. Got progressively worse over the next years, affecting both pelvic limbs. Still ambulatory. Bladder has been expressed by owner for at least 1 year, at that time, radiographs showed overdistension of the bladder (taking the whole abdomen) A few days ago, became hyporexic, lethargic and PUPD. UTI was diagnosed with suspicion for pyelonephritis and antibiotics (ampicillin and enrofloxacin) were started 2 days ago. Penny suddenly showed worsening of her gait in her back legs and is now non ambulatory. Choppy gait in the thoracic limbs with low head carriage has also been reported by the owner for quite a long time.

Neurolocalization: multifocal (cervical myelopathy, T3-L3 myelopathy ; right-sided L4-S3 myelopathy)
Abnormal PE/Chem/CBC/UA Results: CK 3115U/L Panleukopenia: WBC (3.95) ; neutro (2.08) ; lymph (0.83) Mild non regenerative anemia (Ht 33.3% ; Hb 11.9g/dL) Urea 14mmol/L ; creat (137umol/L) 2 days ago was 175umol/L Urinalysis: foul smell, pyuria and rods +++

MAGNETIC RESONANCE IMAGING STUDY OF THE SPINE

T2-STIR and T2-fat saturated images of the cervical, thoracic, and lumbar spine in various image planes available for review.

MAGNETIC RESONANCE IMAGING FINDINGS

Severe degenerative lumbosacral stenosis with severe protrusion of the lumbosacral intervertebral disc is seen. There is a moderate lumbosacral step formation with ventral subluxation of the sacrum. Hypertrophy of the ligamentum flavum is noted. The protruded disc material narrows both neuroforamina. The stenosis is severe and nearly hourglass shaped. Moderate lumbosacral spondylosis deformans is seen. The cauda equina fibers are deviated dorsally. Only mild amounts of hyperintense fat are maintained.

The urinary bladder is empty. A Foley catheter is seen. Moderate generalized thickening of the urinary bladder wall is noted.

The medial iliac lymph nodes present mild bilaterally symmetric enlargement.

Multiple spondyloses are present within the cranial and mid lumbar spine. All visible discs present mild to moderate signs of degenerative disc disease. No significant compressive myelopathy is seen; however, there is dorsal and dorsolateral subarachnoid space widening with teardrop shaped caudal end and mass effect onto the spinal cord from a dorsal and dorsolateral aspect between T12 and L2.

The right kidney is reduced in size and irregular in shape. Mild bilateral hydroureter and pyelectasia is seen.

Mild bilateral facet joint hypertrophy with dorsolateral vertebral canal narrowing is present between C5 and C6, C6 and C7, C7 and T1. The spinal cord diameter appears to be reduced in general throughout the cervical spine. There is no evidence of signal alteration or compression of the spinal cord. The cervical discs present moderate signs of degenerative disc disease.

Extensive hyperintensity and mild generalized swelling of the left subscapularis muscle is seen. Mild hyperintensity of the right subscapularis and left supraspinatus muscles is present. There is



PATIENT moderate bilateral shoulder joint and bicipital tendon sheath effusion.

Penny Webster The left axillary and cervical lymph nodes are mildly enlarged. The left medial retropharyngeal lymph node is mildly enlarged.

SPECIES **MAGNETIC RESONANCE IMAGING DIAGNOSIS**

- Dog
- Severe degenerative lumbosacral stenosis.
 - Thoracolumbar arachnoid diverticulum with mild compressive myelopathy.
 - Mild multifocal caudal cervical spondylopathy.
- BREED**
- Bilateral shoulder arthropathy with subscapularis myopathy and left supraspinatus myopathy.
 - Left medial retropharyngeal, cervical, and axillary lymphadenomegaly.
 - Mild bilateral medial iliac lymphadenomegaly.
 - Bilateral nephropathy with presumed chronic renal disease of the right kidney.
- Bernese Mountain

SEX **INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Female Spayed The MRI study reveals severe degenerative lumbosacral stenosis with compression of the cauda equina. This appears to be the most significant site of nerve root compression throughout the spine.

AGE The thoracolumbar arachnoid diverticulum does cause spinal cord compression which, however, appears to be mild at this point. The etiopathogenesis of the arachnoid diverticuli is unclear and both congenital and acquired diverticuli are a potential.

8 Years

INTERPRETED BY The caudal cervical spondylopathy appears to be mild and no direct signs of spinal cord compression can be identified to go with it.

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Note the presence of bilateral shoulder arthritis with biceps tenosynovitis and rotator cuff myopathy which appears to be specifically severe on the left side in the subscapularis region and the subscapularis muscle.

HOSPITAL NAME Differential diagnosis for the lymphadenomegaly includes reactive lymphadenitis versus neoplastic such as round cell infiltrate. Consider fine needle aspiration of the affected lymph nodes for further definition.

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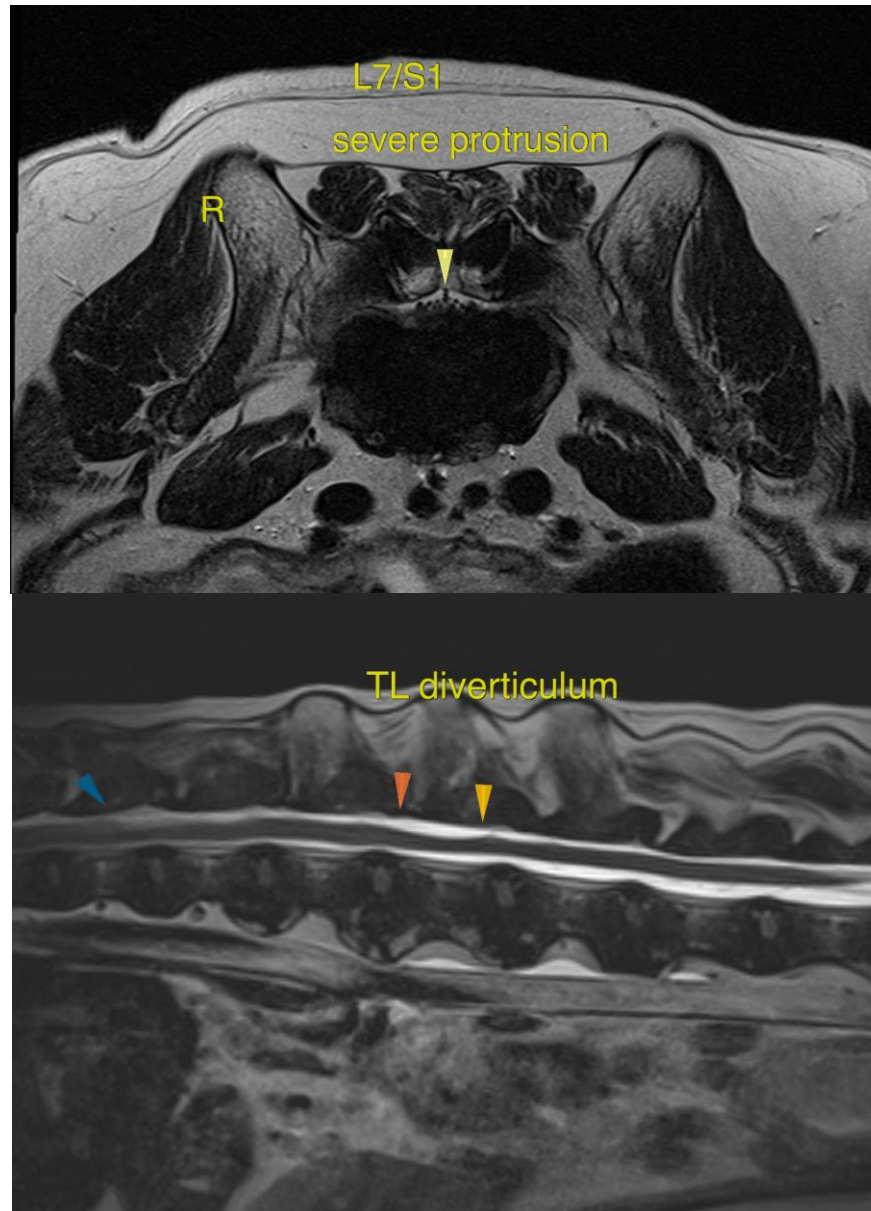
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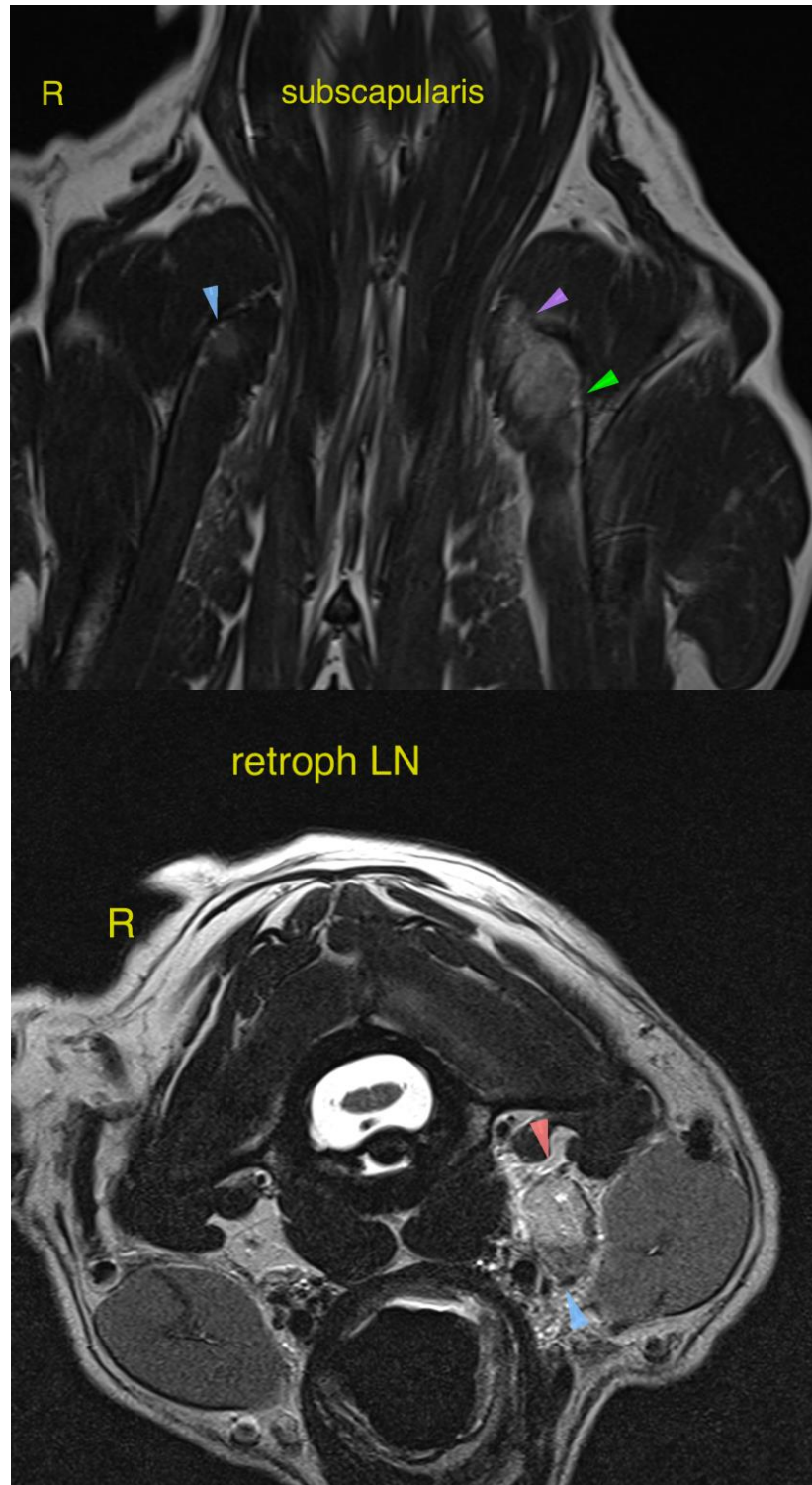
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

SPECIES

Dog

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