



Standing equine MRI

A 10-year-old Irish Sports gelding with a left forelimb lameness

Clinical Findings

A 10-year-old Irish Sports gelding, primarily used for low level show jumping presented with a left forelimb lameness.

History

Initially the gelding was given 3 months pasture rest. On examination after this rest period, the horse was short striding when turning in a small circle to the left on a hard surface. Reexamination a few weeks later showed the gelding had progressed to exhibit LF lameness in canter and trot. Both left and right forelimb distal interphalangeal joints were medicated and a further 25 days box/stall rest was advised.

Clinical examination

On re-examination, a 3/5 (AAEP lameness grade) left forelimb lameness was observed, which became more severe when the horse was lunged on the left rein in a small circle on a hard surface. An abaxial sesamoid nerve block abolished the left forelimb lameness and elicited a mild (deemed to be non-relevant) right forelimb lameness. DIP joint analgesia of the left forelimb elicited a 60% positive response.

Radiography findings

The radiographs were unremarkable, no clinically relevant abnormalities were noted (figures 1 and 2). Due to the severity of lameness and lack of findings on radiography, MRI was performed.



Left forelimb latero-medial view



Left forelimb dorso-palmar view

MRI findings

A focal, irregular area of decreased signal on both T1 and T2* weighted images can be seen at the distal dorsal aspect of the middle phalanx, just lateral to the sagittal midline. Although it is adjacent to the dorsal articular cartilage it does not appear to involve the joint.



Transverse T1 GRE



Transverse T2* GRE



Frontal T2*GRE

MRI findings

High signal in the area of the lesion can be seen in the STIR sequences, indicative of excessive fluid presence within the bone.



Sagittal STIR



Transverse STIR

Case conclusion

The MRI findings indicated an inflammatory lesion within the bone of the dorsal distal aspect of the middle phalanx. Differential diagnoses included; oedema, necrosis, infection, ischemia or a cystic-type bone lesion. Re-examination with MRI 8 weeks later revealed no abnormalities indicating the lesion had resolved and increasing the likelihood of trauma as the inciting cause.

Diagnosis: Focal middle phalanx bone inflammation.

Treatment and prognosis: Initially the horse was pasture rested for 5 months. The horse was then slowly brought back into work. Walking work only was recommended for the first 6 week and then reassessment, before progressing with rehabilitation. Unfortunately, reassessment at 6 weeks revealed only minor improvement in the lameness and a decision was made to retire the horse from show jumping.



Links in this study have been provided by Vetstream's Vetlexicon Equis:



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Images and Interpretation:

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