

AHT Equine

Magnetic Resonance Imaging



Top: Deep digital flexor tendon injury

Bottom: Damage to the collateral ligament of the distal interphalangeal joint



Animal *Health* Trust Equine

Lanwades Park

Kentford

Newmarket

Suffolk CB8 7UU

Tel: +44 (0)1638 751908

Fax: +44 (0)1638 555393

E-mail: info@aht.org.uk

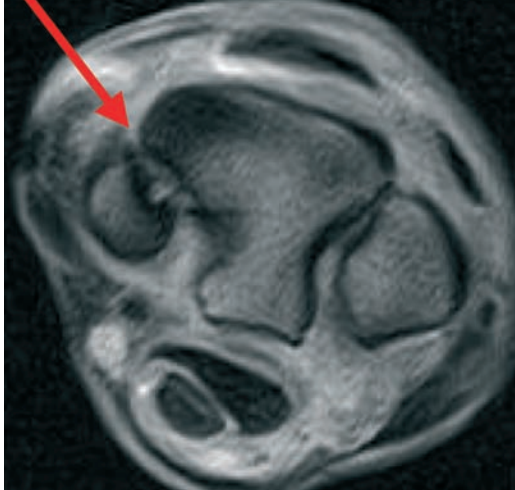
Web site: www.aht.org.uk

Registered Charity No. 209642



Magnetic Resonance Imaging

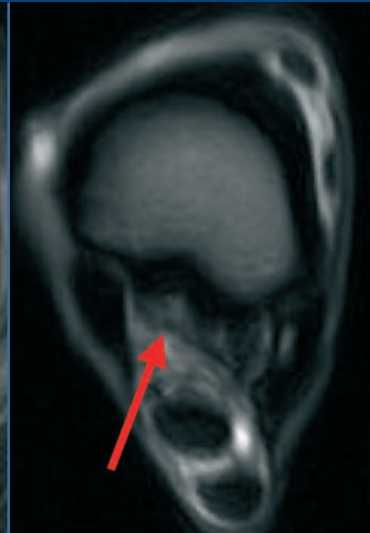
MRI has led to considerable advances in our ability to diagnose and manage horses with pain localised to the foot, pastern, fetlock, metacarpal (metatarsal) and carpal (tarsal) region. The most frequent reason for using MRI is foot pain, to identify both osseous and soft tissue damage, including that to the deep digital flexor tendon, the collateral ligaments of the interphalangeal joints, the navicular bone and related structures, osseous and joint trauma and lamellar pathology. We routinely scan horses with proximal metacarpal and metatarsal pain, and are detecting damage to single lobes of the suspensory ligament, osseous changes or interosseous ligament pathology. MRI of horses with fetlock region pain may reveal joint and osseous damage, pre-fracture pathology, suspensory, distal sesamoidean or intersesamoidean ligament abnormality. MRI of horses with pain localised to the carpus or tarsus has allowed us to identify subtle joint or intertarsal/intercarpal ligament abnormalities.



Top: Intercarpal ligament damage

Bottom left: Osteochondral damage to the sagittal ridge of the third metacarpal bone

Bottom right: Damage to the palmar aspect of the third metatarsal bone and the medial origin of the suspensory ligament



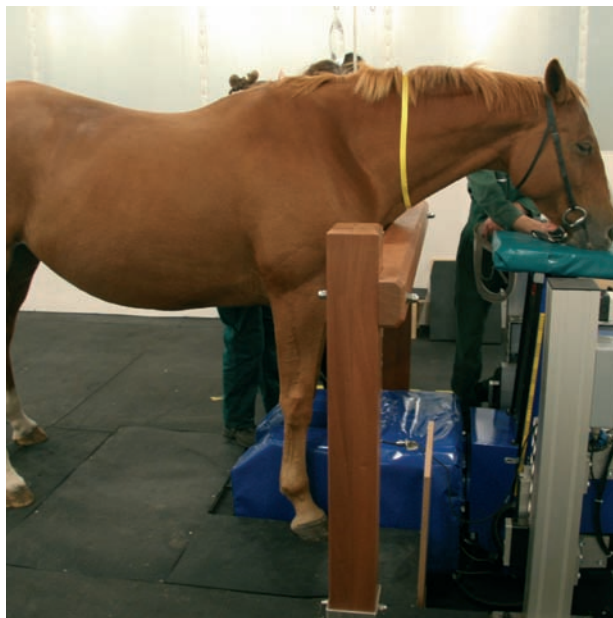
Why send a horse to the AHT for MRI?

1. First class image acquisition and interpretation with a highly skilled and experienced team

- We have 10 years' experience of interpreting equine MR images using high, low and mid-field systems
- We have validated MR images in horses against post mortem, histology, radiography, ultrasonography and scintigraphy so can provide a clinical service based on real facts
- We are consulted on MRI image acquisition and interpretation by equine clinics worldwide
- We have published and presented more papers on equine MRI than any other equine clinic
- We have ongoing research aimed at improving our understanding of MRI applications
- The AHT is the only clinic in the world with both high and low field MRI systems

2. We are consistently able to obtain high quality standing or anaesthetised images of:

- Foot and pastern
- Fetlock
- Metacarpal and metatarsal regions
- Carpus
- Tarsus
- Head (under general anaesthesia only)



3. Personable service with the option for direct referral for imaging

We are happy to receive horses for either

- Imaging only – we will report the findings to you to assist you in making decisions about how to manage the horse in the context of your clinical assessment.

OR

- Complete work up including imaging as necessary

4. We will contact you directly to discuss the findings and send a report within 24 hours, including images on CD, email or printed.

How do I refer a horse for MRI?

Contact AHT Equine at the Animal Health Trust. Tel: 01638 751908; Fax: 01638 555393; Email: equinecentre@aht.org.uk

You are welcome to discuss any cases you think may benefit from MRI with our orthopaedic and imaging team: Dr Rachel Murray, Dr Sue Dyson, Mrs Shelley Down, Miss Merry Smith