



## REPORTING SERVICE: MRI

Report number: VETCT-77133

Report date: 25/05/2017

Referring Veterinarian: xxxxxx

Referring Practice: xxxxxx

Email address: xxxxxx

Owner: xxxxx Patient: xxxxx

Species: Equine Breed: Warmblood Sex: Female Entire Age: 10 years, 4 months

Associated cases: VETCT-77135, VETCT-77145, VETCT-77441

### Clinical History:

Lame behind

### Questions to be answered:

**Number of series / images:** 45 / 253

**Study dated:** 23/05/2017

**Study received:** 23/05/2017

**Anatomic regions:** Tarsus/foot

**Details of study and technical comments:** MRI proximal metatarsal region. Images are of diagnostic quality.



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## Diagnostic interpretation:

### Right limb:

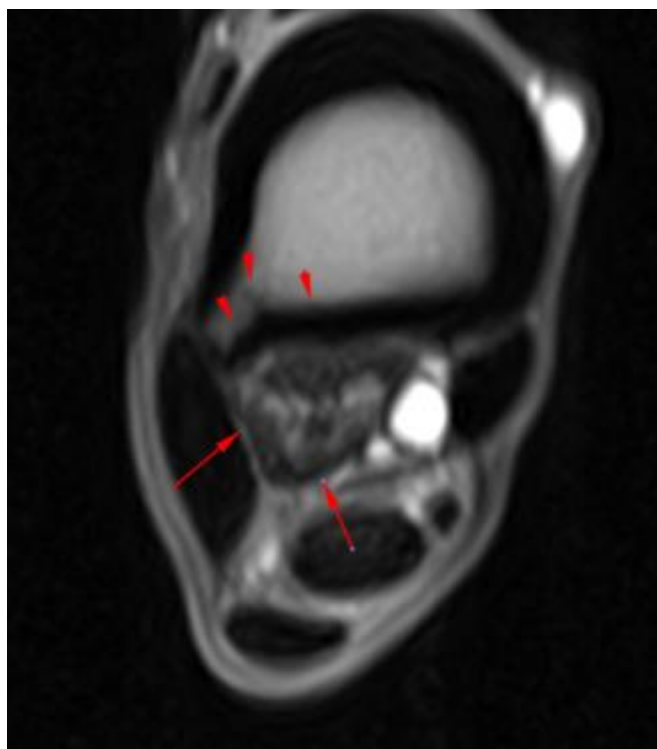
- The lateral and medial lobes of the suspensory ligament are moderately enlarged. The muscle bundles have irregular margins and asymmetric signal intensity in T2W FSE just distal to the origin. At this level, the medial bundle has lower signal intensity compared to the lateral. The collagenous portion of the ligament is poorly visualized plantar to the medial bundle.
- There is mild periosteal reaction with small enthesophyte formation in the axial plantar aspect of the third metatarsal bone at the origin of the suspensory ligament. The cortex of the bone is mildly thickened on the lateral aspect and shows endosteal irregularities.

### Left Limb:

- The lateral lobe of the suspensory ligament is enlarged and its plantar margin is irregular. An area of hyperintense signal is visible within the lateral lobe extending slightly dorsally to the margin of the lobe into the plantar cortex of the third metatarsal bone. The plantar cortex at this level is thickened and has an irregular endosteal surface.
- In T2W FSE there is increased signal intensity within the lateral lobe and there is poor visualization of the collagen portion of the ligament surrounding the muscle bundle.

## Conclusions:

- Bilateral moderate to severe suspensory ligament desmopathy.
- Bilateral entesopathy at the origin of the suspensory ligament



Right limb T1W GRE transverse. Note the irregular thickening of the lateral cortex of the third metatarsal bone (arrowheads) and the enlarged lateral lobe of the suspensory ligament (arrows).



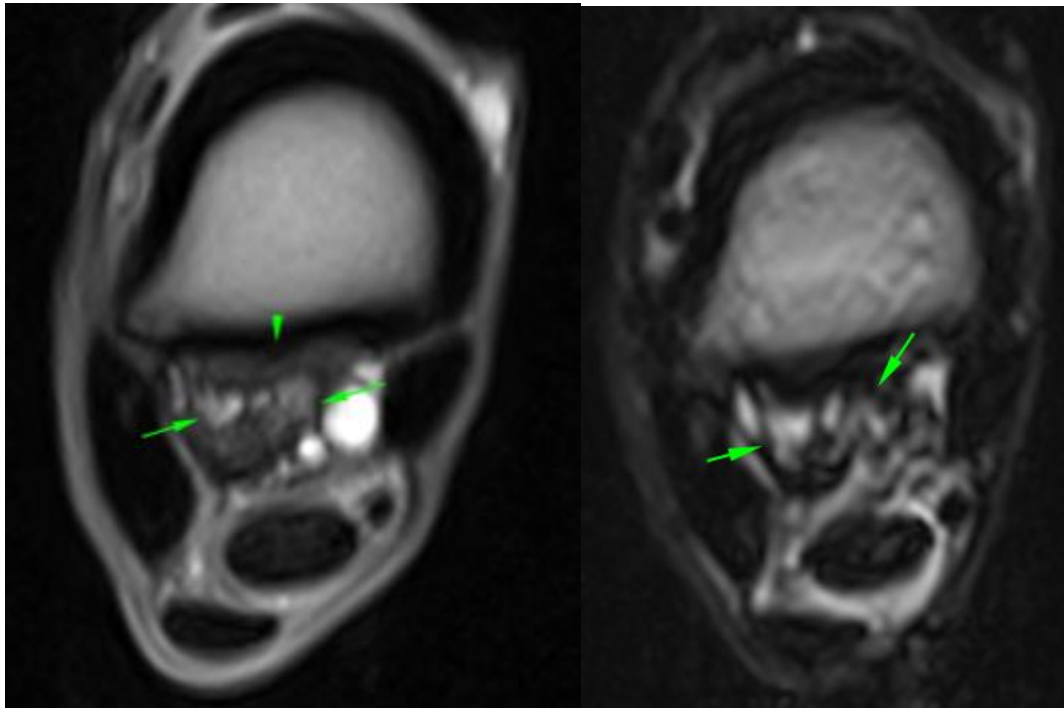
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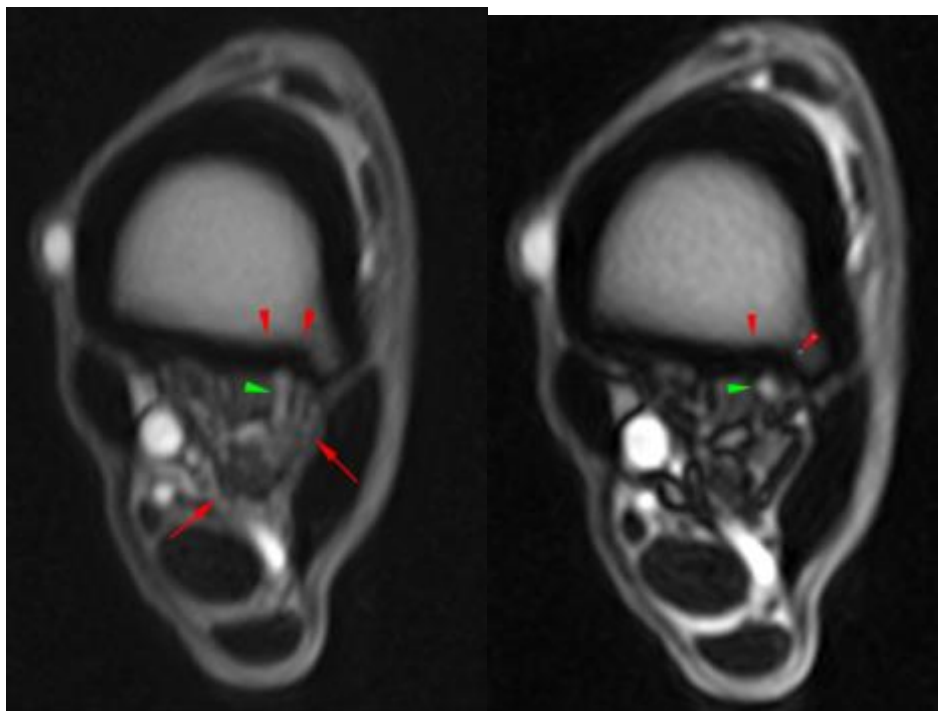
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Right limb T1W GRE and T2W FSE transverse. Note the enthesophyte on the axial plantar cortex of the third metatarsal bone (arrowheads) and the asymmetric signal intensity within the muscle bundles of the suspensory ligament (arrows).



Left limb: T1W and T2\*W GRE transverse. Note the enlarged lateral lobe of the suspensory ligament (red arrows), the focal thickening of the plantar cortex of the third metatarsal bone (red arrowheads) and the focal hyperintensity within the dorsal portion of the lobe (green arrowhead).



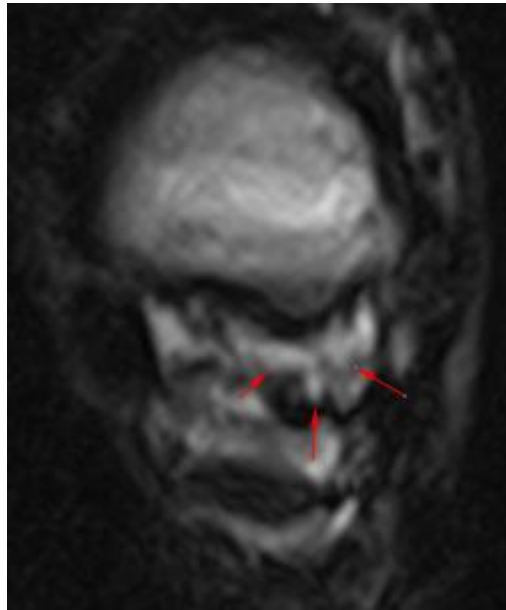
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Left limb; T2W FSE transverse showing the increased signal intensity in the lateral lobe of the suspensory ligament.

**Additional comments:**

Lesions are worse in the left limb where the signal extending into the plantar cortex of the third metatarsal bone might be suggestive of partial avulsion.

The asymmetric signal within the muscle bundles in the right limb likely represent change in composition of the bundles due to fibrosis (medial lobe) which is supportive of chronic lesion.

**Reporting Radiologist:**

xxxxxxx DVM, PhD, DipECVDI, MRCVS  
European Specialist in Veterinary Diagnostic Imaging  
RCVS Specialist in Veterinary Diagnostic Imaging

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