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esaote
veterinary

Introduction

Sedated, stationary MRI is the standard of excellence recognized worldwide as the correct way to scan anatomy without compromising image quality. The O-scan equine covers imaging of the foot, pastern, fetlock, high suspensory, carpus and tarsus regions of the equine limb.

The O-scan equine is the ideal cost-effective MRI to clearly distinguish between bone edema, ligaments and tendons ensuring accurate imaging, through excellent contrast resolution and image quality; essential for optimal diagnosis.





-
- ✓ Open permanent magnet
 - ✓ 0.31 Tesla field
 - ✓ Max RF power: 1500 W
 - ✓ Shimming: passive
 - ✓ Gradient: ± 20 mT/m
 - ✓ FOV: 14 cm
 - ✓ Low power consumption:
only 1 kW in normal
220/110 V power outlet
 - ✓ Complete set of dedicated
DPA coils
-

High Performance MRI at a fraction of the cost

The O-scan equine offers unsurpassable performance, comparable to the image quality of 1.5T systems.

The system covers imaging of the foot, pastern, fetlock, high suspensory, carpus and tarsus regions of the equine limb. With the special 3D SHARC sequence for articular cartilage evaluation and the XBONE to evaluate bone marrow edema and soft tissue structures, you can easily make a complete assessment of the suspected pathology in a very short examination time.

The most complete Pre-Purchase Examination (PPE) can also be executed very effectively with the O-scan equine, to evaluate the musculoskeletal system, where most abnormalities such as conformational defects, previous injuries and surgical scars can be identified as well as current soundness.

Unique advantages for you

Esaote's product development efforts have been highly focused on optimizing the features, performance and image quality of its MRI systems. eXP technology leads to faster overall system response thanks to a number of sophisticated MRI software techniques, designed around the new concept of parallel computing. eXP technology will substantially improve MRI examination by reducing scan times and improving image quality.



Premium Image Quality

Higher image quality for easier and more reliable diagnosis leads to optimal marketing for your services.



Low power consumption

Unlike high field systems, the O-scan equine makes careful use of resources by requiring less energy and no cryogenic liquids, resulting in very low maintenance costs.



Advanced Hardware

Optimized features, performance and image quality. Designed around the new concept of parallel computing, eXP will substantially improve MRI examination by reducing scan times and improving image quality.



Plug & Play

From the day of delivery, the system is fully operational and ready to use after 2 weeks; 1 week of installation, set-up and tuning and 1 week of operating and application user training.



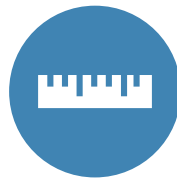
High Speed MRI

Shorter examination time means more comfort for the patient and higher efficiency with pre-programmed protocols that simplify and speed up examination procedures.



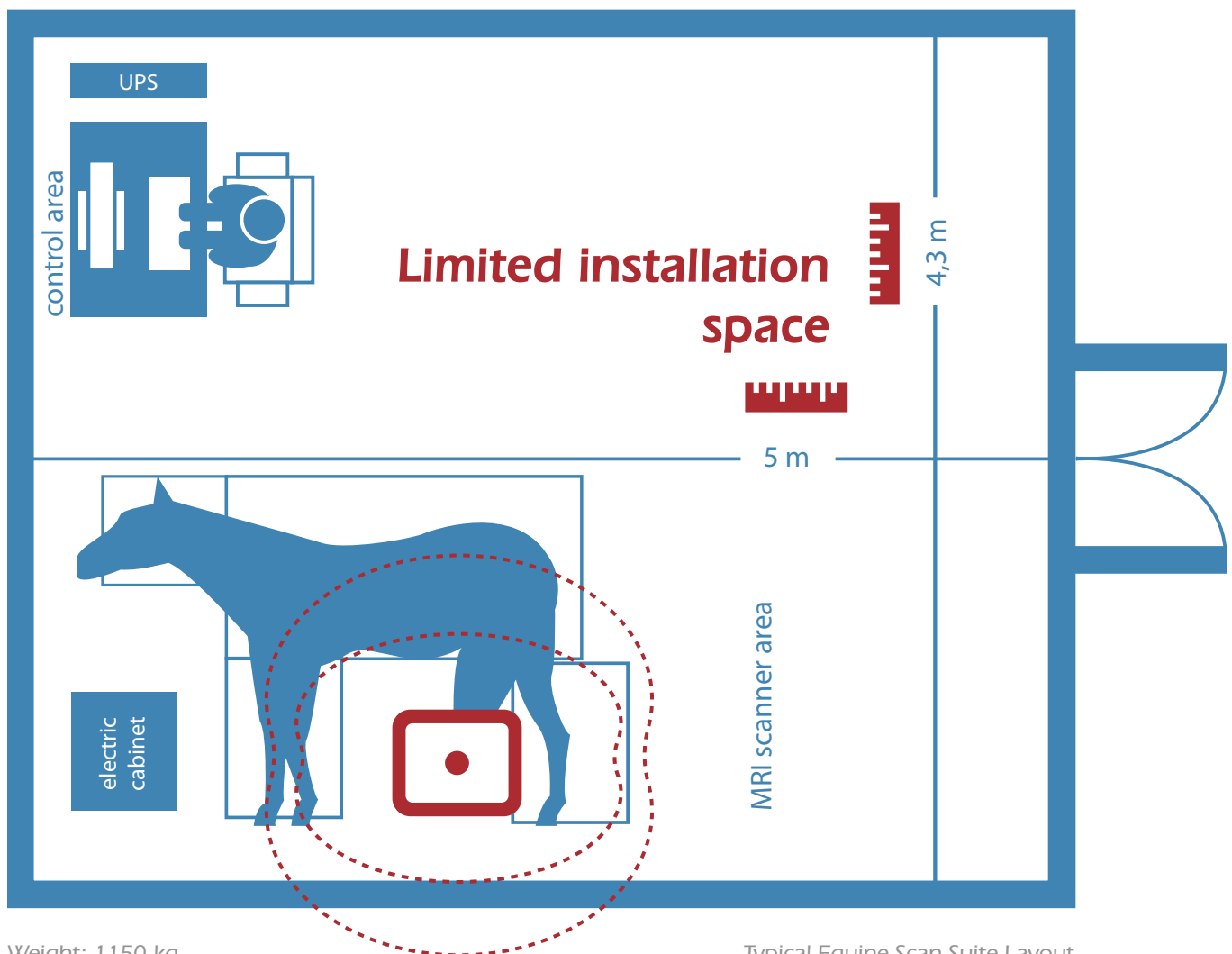
One Stop Shop

The fastest track to diagnosis and treatment, with the O-scan equine installed in your surgery room.



Limited installation space

The innovative design of the O-scan equine integrates a complete MRI system in one unique structure including RF shielding, with a low weight and extremely limited space needed for installation.



Weight: 1150 kg
RF-Shielding: Integrated Internal Shielding

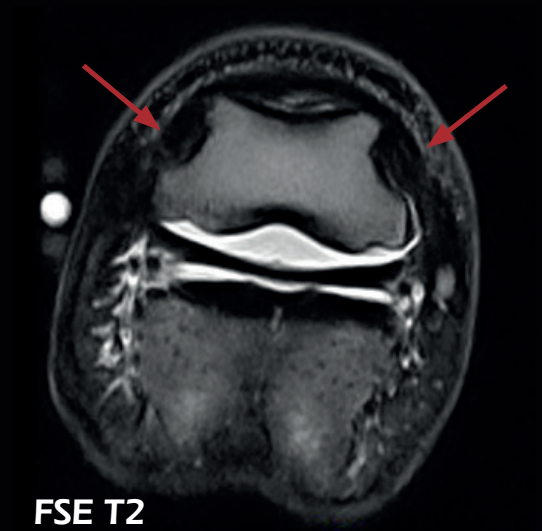
Typical Equine Scan Suite Layout

Case 1

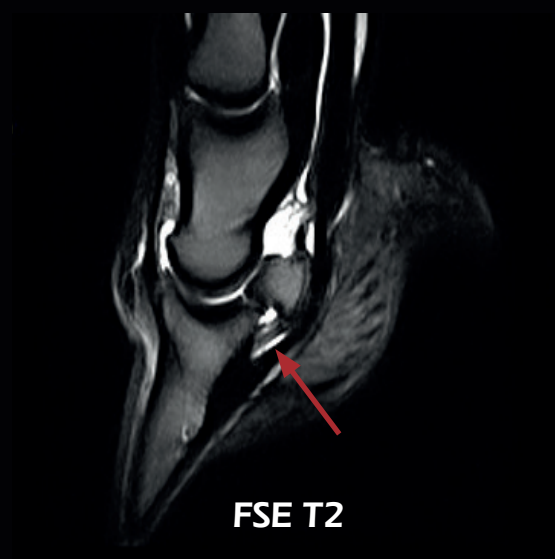
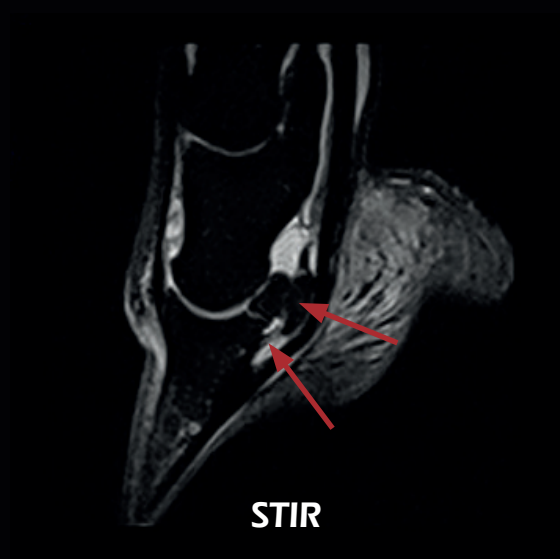
Lesion of the collateral ligaments of the coffin joint



Significant T2 signal increase at the origins, proximal, mid and mid-distal levels of the medial and lateral collateral ligaments of the coffin joint.



In the axial plane the majority of the signal increases along the axial halves of the ligaments.

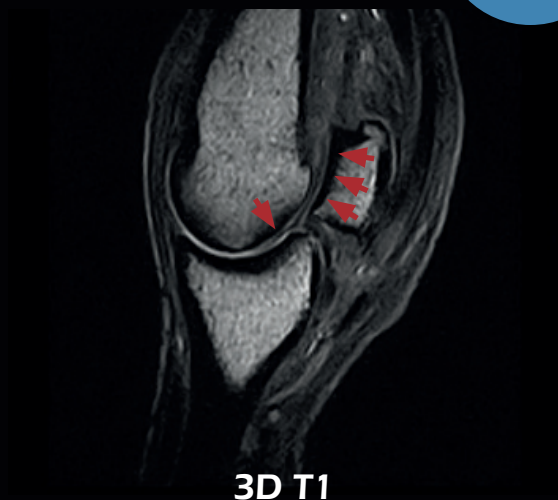


A tiny amount of STIR signal can be seen in palmar P3 where the distal impar ligament inserted. There is also a subtle increase in STIR signal seen in the navicular bone.

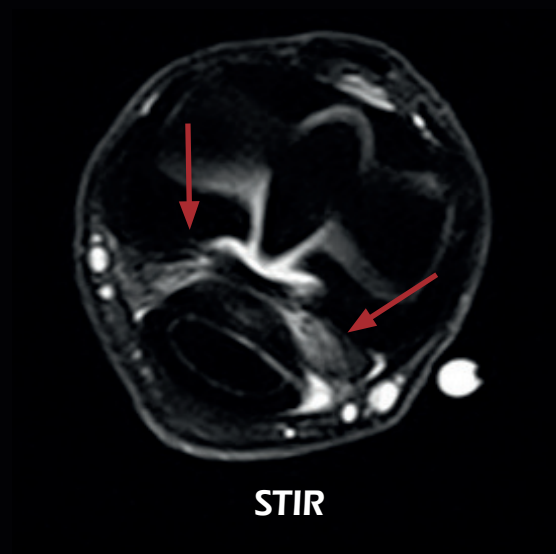
Case 2

Fetlock Arthropathy

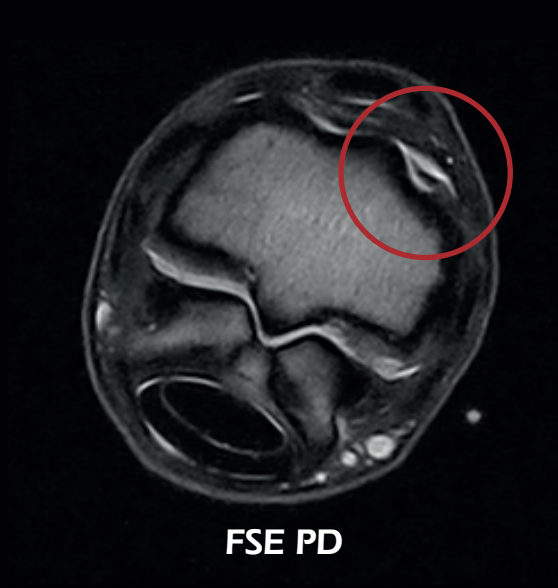
104 slices
0.9 mm thick



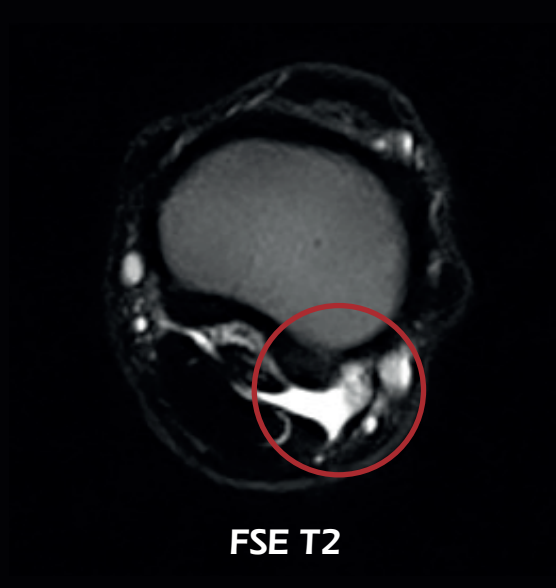
At the back of the metatarsosesamoidean joint there are areas with decreased cartilage signal on the condyles and dorsal sesamoid bones.



Mild/moderate signal increase in the axial halves of the medial and lateral oblique distal sesamoidean ligaments.



The dorsal-lateral synovial pad is prominently seen as it is surrounded by fluid. This type of finding is often seen with a fetlock arthropathy.



Unusual accumulation of fluid in the palmar lateral pouch of the fetlock joint.

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