What are the problems that upright open MRI can solve?

- We have the ability to develop protocols for a wide range of clinically-relevant pathologies.
- Our current area of focus is musculoskeletal, in particular hip, spine and knee.
- We also work in paediatric orthopaedics, head & neck, urology, and other areas.

What can our team offer?

- We are leading researchers from a world-class university and leading clinicians from a world-class hospital, working together to tackle prevalent, clinically-relevant problems.
- We start with ideas, undertake technical development and protocol development, and conduct research studies to translate the findings into clinical imaging protocols that have impact.
- We conduct all aspects of protocol development: MRI sequences, coils, research studies, clinical translation.

What is the Upright Open MRI?

We are the only Upright open MRI group in the world dedicated to translational research for a wide range of health issues.

The Upright Open MRI (MROpen, Paramed Medical Systems, Italy) is an important advance from traditional MRIs as it allows the body to be imaged in a wide range of postures and during weight bearing—information that is critical to better understand the human body in health and diseased states.
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HIP
Sitting

Alpha Angle GFE T1
Ax FSE11 T2
Cor GFE T1
Cor GFE T2
Cor SE T1
Sag GFE T1
Sag GFE T2
Sag SE T1
HIP
Standing

Ax GFE STIR  
Ax SE T1  
Cor FSE11 T2  
Cor GFE T1  
Cor SE T1  
Sag GFE T1  
Sag GFE T2  
Sag SE T1
HIP
Supine
KNEE Sitting

Ax GFE STIR  Ax GFE T1  Ax GFE T2  Ax SE T1

Cor FR9 T2  Cor GFE T1  Cor GFE T2
KNEE Standing

Ax GFE STIR
Ax GFE T1
Ax T1 SE
Ax T2 3D
Ax T2
Cor FR9 T2
Cor GFE STIR
Cor GFE T1
KNEE
Supine

Ax GFE STIR
Ax GFE T1
Ax GFE T2
Ax SE T1
Ax STIR
Ax T2
Cor GFE T1
Cor GFE T2
LUMBAR SPINE
Standing & Sitting

Standing
Ax FSE T2
Sag FSE T2 ShV

Sitting
Sag FSE T2 ShV in extension
Sag FSE T2 ShV in flexion
LUMBAR SPINE

Supine

Ax FSE9 T2
Ax GFE T1
Ax SE T1
Cor FSE11 T2
Cor GFE T2
Cor SE T1
Sag FSE9 T2
Sag SE T1
NOVEL IMAGING

Bilateral Knees in FADIR Stance

Bilateral Knees in Deep Flexion

Standing Side Splits

Cor SE T1 Bilat FADIR Knees

Cor SE T1 Bilat Knees Deep Flexion

Cor SE T1 Standing Splits
NOVEL IMAGING

- Lumbar Spine Back Bend
- Drinking
- Standing Ankle in Deep Flexion
- Knee in Deep Flexion

- Sag FSE9 T2 L-Spine Back Bend
- Sag Head Drinking
- Sag SE T1 Ankle Deep Flexion
- Sag SE T1 Knee Deep Flexion
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