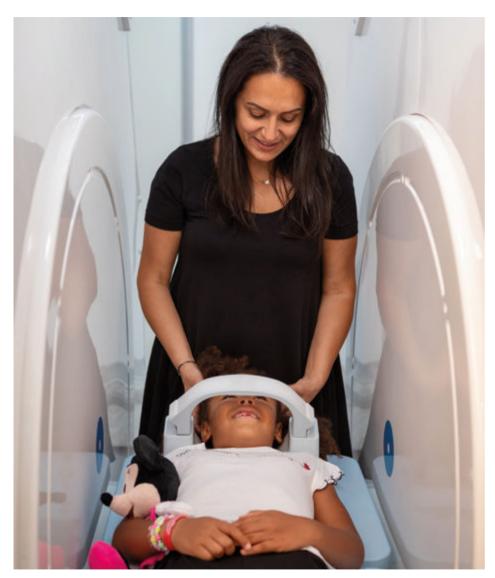




§ MROpen





Stress free

The best MRI experience

Our key value has always been, since the very beginning, patients first. MROpen Evo provides superior comfort, greatly reducing the problem of claustrophobia and patient anxiety that often occurs in closed "tunnel" systems, causing concern and distress in both patients and MRI operators.

The patient can walk into the scanner, can sit, lie slightly backward, lie horizontally or even stand. With no barrier with the surrounding environment, patients can see around them at all times or enjoy watching TV while comfortably undergoing an MRI procedure.

All of this while improving the clinical outcome by being able to scan the patient in the position of maximum symptom.

ON THIS TOPIC



Stand out

Make your MRI centre truly unique

Thanks to its unique design, MROpen Evo offers something different to both patients and clinicians.

The unique vertical opening accommodates larger, claustrophobic, elderly and young patients, or those who are in pain, with no barrier between the patient and the environment.

To cover specific needs, differentiate your services and increase productivity MROpen Evo is the perfect choice for your centre as a stand-alone scanner or associated with a traditional MRI.

DISCOVER MORE ON THIS TOPIC





Don't guess. See Upright and multi-position imaging

MROpen Evo changes the approach to the clinical investigation using positional symptom-driven imaging.

The innovative design improves the clinical approach towards pathologies of the spine and joints, by allowing earlier detection and more accurate diagnosis, thus improving overall patient outcomes.

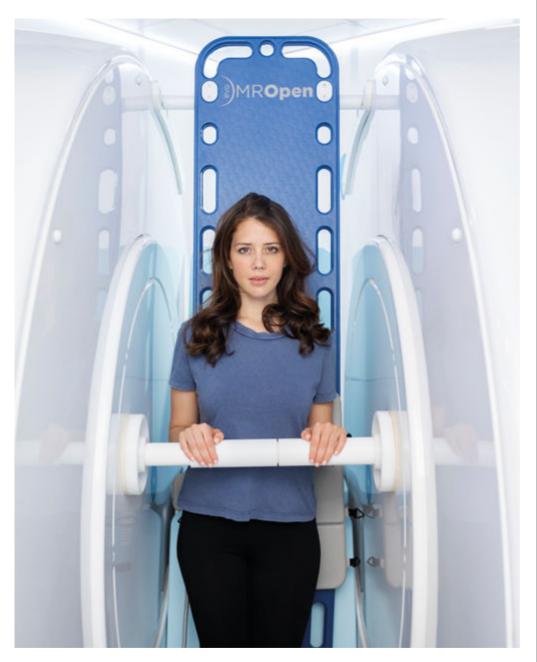
Changing point of view makes the difference.

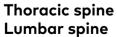
DISCOVER MORE











PATIENT POSITIONS: Supine Angle 20 Angle 40 Angle 60 Sitting Standing

Routine Flexion/Extension Weight Bearing



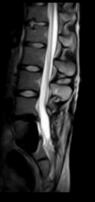
SUPINE FSE T2 4 mm thk - 3'13''



SUPINE SE T1 4 mm thk - 3'14''



SUPINE FIR PD 4 mm thk - 3'40''

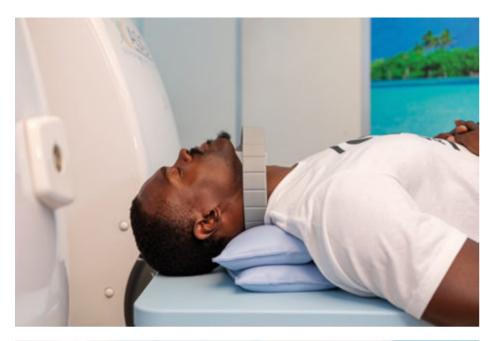




SUPINE FSE T2 4 mm thk - 3'22''

SAME PATIENT

SITTING FSE T2 4 mm thk - 4'53'' STANDING FSE T2 5 mm thk - 1'19''





Cervical spine

PATIENT POSITIONS:
Supine Angle 40
Angle 20 Sitting

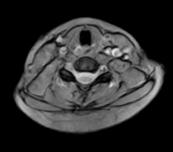
Routine Flexion/Extension Soft tissue neck MRA carotids



SUPINE FSE T2 3 mm thk - 2'04''



SUPINE SE T1 3 mmh thk - 3'41''



SUPINE GE T2 4 mm thk - 4'02''



FLEX FSE T2 4 mm thk - 1'34''

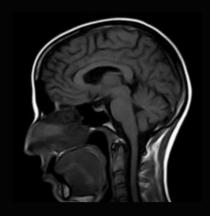


EXT FSE T2 4 mm thk - 1'34''

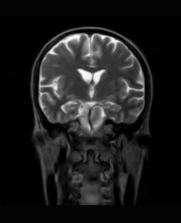




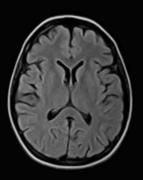
PATIENT POSITIONS: Supine Angle 20 Angle 40 Sitting IAC TMJ Pituitary gland Orbits MRA



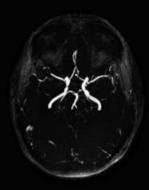
SUPINE SE T1 5 mm thk - 3'09''



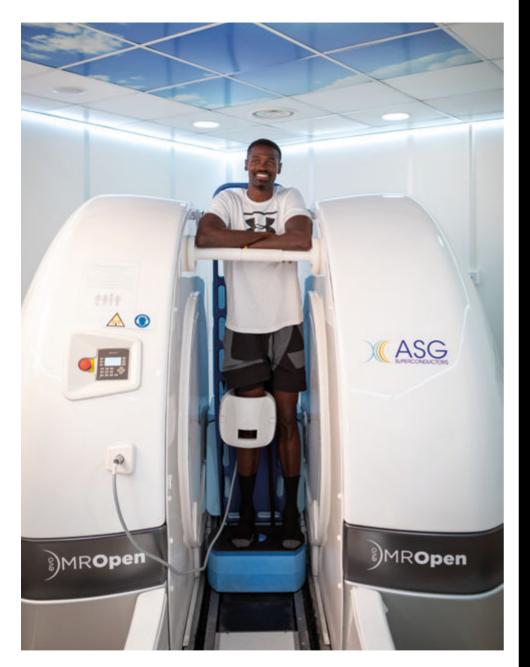
SUPINE FSE T2 5 mm thk - 2'58''



SUPINE FLAIR T2 5 mm thk - 3'10''

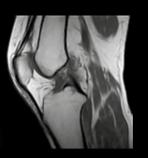


SUPINE MRA 1 mm thk - 6'47''



Knee

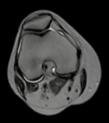
PATIENT POSITIONS: Supine Angle 20 Angle 40 Angle 60 Sitting Standing Bent knee



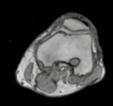
SUPINE FSE T2 3 mm thk - 2'04''



SUPINE FIR PD 3,5 mm thk - 4'36''



SUPINE FSE T2 3,5 mm thk - 3'48''



SUPINE STSS 3D 0,56 mm thk - 2'37''



SUPINE FSE T2 3,5 mm thk - 2'27''



STANDING FSE T2 5 mm thk - 1'33''





PATIENT POSITIONS: Supine Angle 40 Sitting Standing



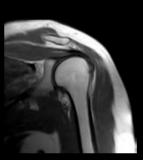
SUPINE SE T1 4 mmh thk - 2'57''



SUPINE FIR PD 3,5 mm thk - 3'45''



SUPINE GE T2 3,5 mm thk - 3'28''



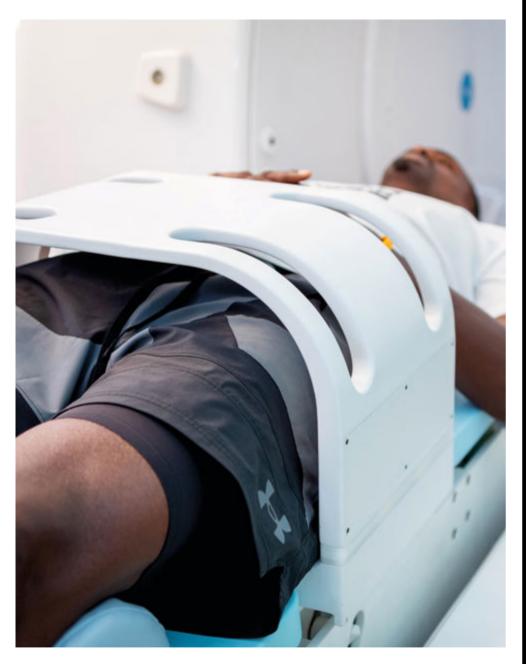
SUPINE SE T1 4 mm thk - 2'28"



SUPINE SE T1 4 mm thk - 2'28"

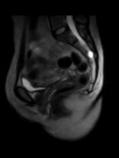


SITTING GE T1 3D 0,48 mm thk - 2'57''



Pelvis

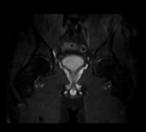




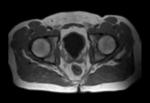
SUPINE FSE T2 5 mm thk - 3'57''



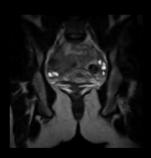
SUPINE FSE T2 4,5 mm thk - 4'15''



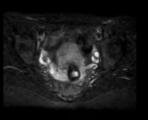
SUPINE FIR PD 5 mm thk - 4'43''



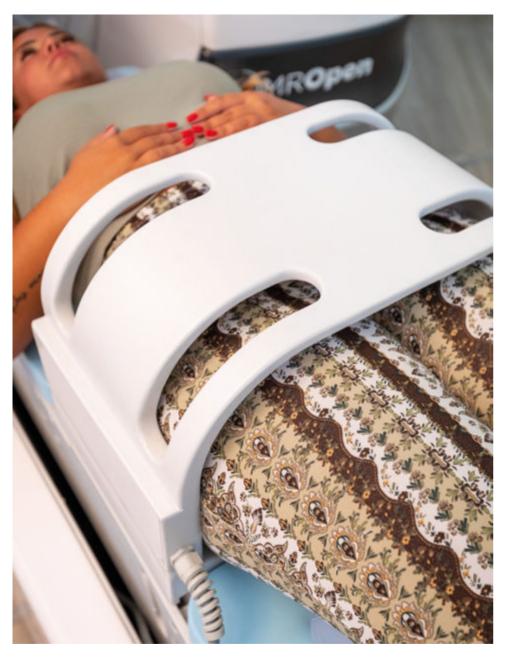
SUPINE SE T1 4,5 mm thk - 2'48''



SUPINE FSE T2 5 mm thk - 4'07''

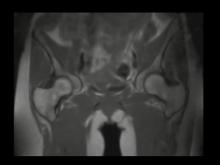


SUPINE FIR PD 5 mm thk - 4'13''

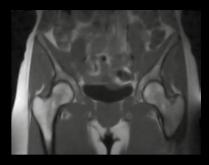


Hip

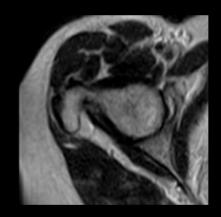
PATIENT POSITIONS: Supine Standing Standing with hip rotation



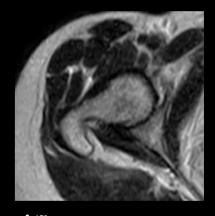
SUPINE SE T1 5 mm thk - 2'16''



STANDING SE T1 5,5 mm thk - 1'48''







STANDING FSE T2 5 mm thk - 1'38''

Receiving coils



KNEE
Channels: 2
clinical applications: knee, ankle, foot



BODY SPINEChannels: 4
clinical applications: I-spine, t-spine, pelvis, bilateral hips, sacroiliac joints



WRIST-HANDChannels: 2
clinical applications: hand, wrist, elbow



MP-FLAT Channels: 1 clinical applications: upright/sitting hip pelvic floor, multipurpose



SPINE FLAT
Channels: 4
clinical applications: upright/sitting,
l-spine, t-spine, sacroiliac joints



CERVICAL SPINE
Channels: 2
clinical applications: c-spine



MP-LOOP Channels: 1 clinical applications: shoulder, dynamic studies, multipurpose



SHOULDER Channels: 2 clinical applications: shoulder



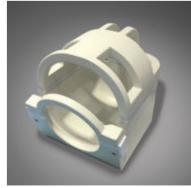
WHOLE SPINE Channels: 8 clinical applications: spine



FLEX SMALL/LARGE Channels: 1 clinical applications: upright/ sitting pelvis, bilateral hips



BRAIN Channels: 2 clinical applications: head - brain



HEAD NECKChannels: 3
clinical applications: brain, mra

Different by design



UNIQUE DESIGN

U-shaped design delivers unparalleled patient comfort with no barrier between the patient and the environment.

UPRIGHT IMAGING

New approach towards pathologies of the spine and joints, by allowing earlier detection and more accurate diagnosis.

HELIUM-FREE TECHNOLOGY

Innovative superconducting material Magnesium Diboride – MgB₂. Environmentally friendly. Quench-free safe operation. Lower power consumption.

HIGHEST PATIENT ACCEPTANCE

Claustrophobic, anxious, larger, elderly or disabled patients, or those who are in pain, are able to undergo the examination in comfort and without anxiety.

MULTI-POSITION IMAGING

Imaging can be performed with the patient positioned appropriately according to symptoms: standing, sitting, bending or lying down.

SPECIAL STUDIES & RESEARCH

Unmatched versatility enables special MRI studies and clinical research: from dynamic studies, to imaging professional athletes with extreme ranges of flexion of the spine and joints.



Testimonials

patients and professionals

"I'm a combat veteran from US Air Force and I'm suffering from PTSD. A closed bore MRI was not an option for me. In the MROpen Evo everything is different because you can sit and see all around you"



"Over the years my claustrophobia increased and it left me dreading necessary MRI scans. After experiencing the MROpen that all changed."



"I had a problem with my lumbar spine. After the examination in the MROpen scanner, being in the flexion and extension position as well I got to see what my real problem had been this whole time."



A child suffering from Asperger syndrome, Tourette syndrome, and ADHD has had many terrible experiences with MRIs and finds relief with the MRI system at an Innovative MRI Partners facility.



Penny Gowland
Professor of Physics, Faculty of Science
Sir Peter Mansfield Imaging Centre
Nottingham University

"Open scanners give a whole new dimension to MRI, which can be used to study the effects of gravity on structure and function, and also dynamic processes in the human body. This will provide new clinical information most obviously in MSK imaging but also in lung, GI and neuroimaging, and will also open up new avenues in experimental medicine research. Furthermore, the convenience of the scanner offers the chance for faster patient scanning with less risk of claustrophobia."



MROpen Evo Graphic User Interface

Intuitive, efficient and workflow-optimized

Designed with the user in mind, the MROpen Evo Graphic User Interface (MR-Gui Pro) offers an easy-to-use and intuitive experience, ensuring smooth operations and optimal efficiency. Thanks to customized protocol-driven scanning, MR-Gui Pro enables quick examinations and high throughput—all while maintaining exceptional diagnostic quality. This streamlined interface helps you maximize productivity without compromise.

Faster Imaging, Exceptional Quality

Thanks to continuous advancements and optimizations, the latest version of MROpen Evo delivers outstanding image quality while cutting scan times by up to 50%. Utilizing the powerful Compressed Sensing algorithm, MROpen Evo combines parallel imaging, sparse data sampling, and iterative reconstruction techniques to dramatically reduce scan time without compromising resolution. This innovative technology works with both 2D and 3D sequences, making it suitable for all anatomies.

DISCOVER MORE



MgB₂ The true Helium-free MRI innovation



SMART

MROpen Evo makes the best use of the most recent MgB₂ high-temperature superconductor and helium-free cooling solutions in an opensky magnet, enabling an innovative approach to imaging and therapy.



SIMPLE

Eliminating the need for gas refills or helium venting lines makes magnet installation and running much simpler than with conventional solutions.



SAFE

MgB₂ superconductor and helium-free cooling combined in a very stable magnet solution allow full control to the user, including switching on-off, and simplified start-up and maintenance.



ADVANCED

We allow you to do what you would expect from a conventional MRI system and in the meantime we allow you to think differently and provide innovative clinical solutions that others cannot, always for better patient outcomes and cost savings throughout cycle of care.



GREEN

Much reduced use of helium and of rare-earth elements compared to other magnet solutions and full reliance on electricity to operate all help to protect our environment.

> DISCOVER MORE ON THIS TOPIC



Technical Specification

Field strength	0.5 T	
Туре	Superconductive "Cryogen-free" based on the technology of MgB2 (Magnesium Diboride)	
Lateral gap	56 cm 22 ³ / ₆₄ in	
Digital spectrometer	I-box spectrometer	
Receiving channels	8	
Gradients max intensity	20 mT/m	
Rise time	0.6 msec (0 – 20 mT/m)	
Slew rate	33 mT/m/msec	
Receiving coils technology	Multi array cross tuned	
Max patient weight	200 kg / 440 lb	
Patient position	Laying, sitting, standing	
Graphic user interface	MR-GUI Pro	
Acceleration technique	Compressed Sensing (CS)	

SITING REQUIREMENTS

Total system weight	28,000 kg / 61729 lb	
Magnet room standard dimensions	6 mt X 5 mt (19' 8 ^7/32 X 16' 4 ^27/32)	
Technical room standard dimensions	3 mt X 4 mt (9' 10 ^7/64 X 13')	
Electronic cabinets	3 x 250 kg / 3 x 551 lb	
RF shielding	Required	
Power requirement	400V 3N ~50Hz 480V 3N ~50/60 Hz	
Power consumption	35 KVA	

PULSED SEQUENCES

Spin Echo Gradient Echo* Multi Echo, PD-T2 Gradient Echo Dual Echo (HiCon)*

Fast Spin Echo

Fast Spin Echo (FSE T2, FSE T1, FSE PD)*
Fast Inversion Recovery (FIR PD, FIR T2)*
Fast Spin Echo Fluid Attenuated Inversion
Recovery (Fast FLAIR)* Metal T1/T2
HASTE**
Diffusion Weigthed Imaging**
(DWI - HASTE)**

- * Flow Compensation available
- ** Compressed Sensing (CS) not available

Gradient Echo in Steady State Balanced

Steady State in Free Precession (GBASS 3D, GBASS 2D) Gradient Echo in Steady State (GE 3D)

Gradient Echo in Steady State RF Spoiled (GE T1 3D)

Time Reversed Gradient Field Echo (EMIT 3D)

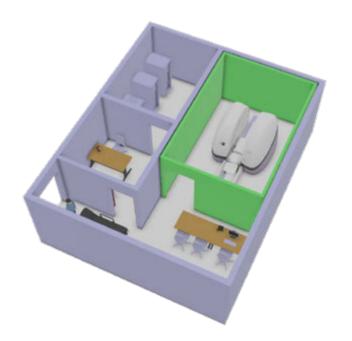
Dual Echo in Steady State (STSS 3D)

MRA

Angio 2D Angio 3D

Fat Suppression

Gradient Echo Fat Water Separation (FWS) Short time Inversion Recovery (GE-STIR, SE-STIR)



DISCOVER MORE ON THIS TOPIC









the best MRI experience