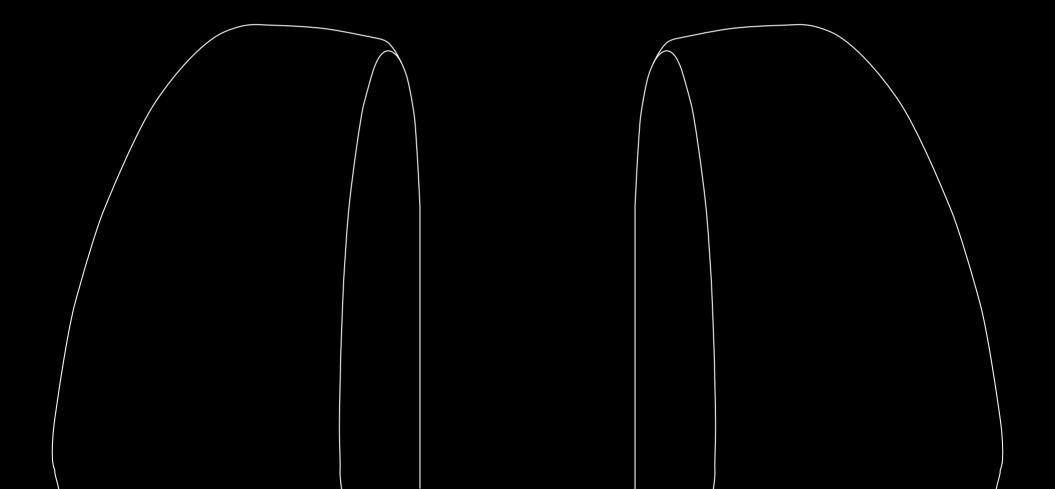
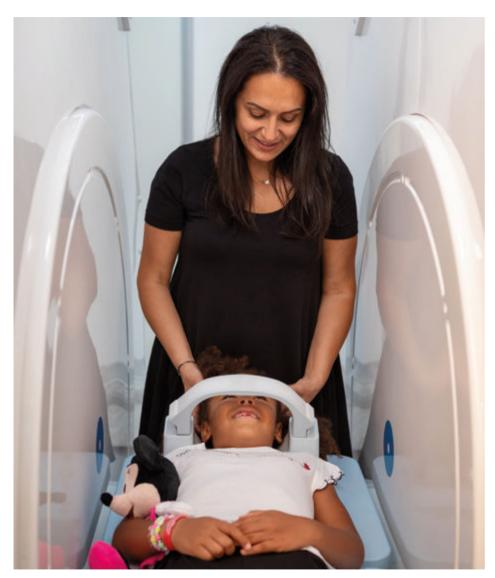


the best MRI experience





§ 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











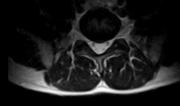
4 mm thk - 5'10"



SUPINE SE T1 4 mm thk - 4'24"



SUPINE FIR PD 4 mm thk - 5'19"



Thoracic spine Lumbar spine

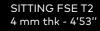




SUPINE FSE T2 4 mm thk - 4'09"



SAME PATIENT





STANDING FSE T2 5 mm thk - 1'19"



PATIENT POSITIONS:

Supine Angle 20 Angle 40 Angle 60 Sitting Standing



Cervical spine

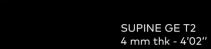
Routine Flexion/Extension Soft tissue neck MRA carotids

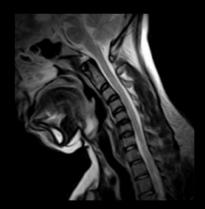


PATIENT POSITIONS:

Supine Angle 20 Angle 40 Sitting







SUPINE FSE T2 3 mm thk - 5'40"

FLEX FSE T2 4,5 mm thk - 1'29"



EXT FSE T2 4,5 mm thk - 1'49"



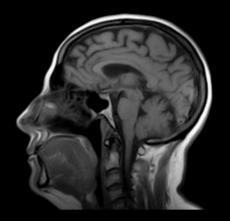


IAC TMJ Pituitary gland Orbits MRA

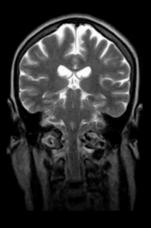


PATIENT POSITIONS:

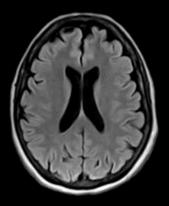
Supine Angle 20 Angle 40 Sitting



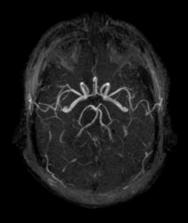
SUPINE SE T1 5 mm thk - 4'27"



SUPINE FSE T2 5 mm thk - 4'10"

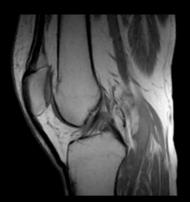


SUPINE FLAIR T2 5 mm thk - 4'36"



SUPINE MRA 1,2 mm thk - 6'27"

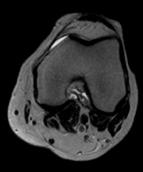




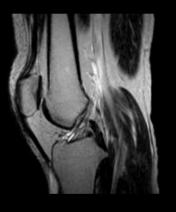
SUPINE SE T1 3 mm thk - 5'13"



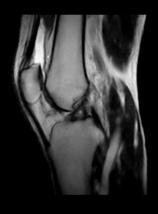
SUPINE FIR PD 3 mm thk - 6'36"



SUPINE FSE T2 3 mm thk - 5'40"



SUPINE FSE T2 4,5 mm thk - 5'21"



STANDING FSE T2 4,5 mm thk - 2'13"



Knee

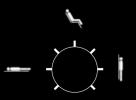
PATIENT POSITIONS:

Supine

Angle 20 Sitting
Angle 40 Standing
Angle 60 Bent knee



Extremities



PATIENT POSITIONS: Supine Angle 40 Sitting Standing



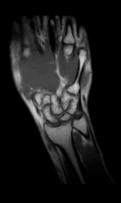
STANDING SE T1 -4 mm thk - 2'41"



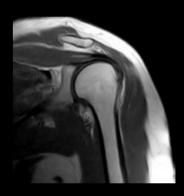
SUPINE FIR PD 4 mm thk - 5'00"



SUPINE GE T2 4 mm thk - 3'29"



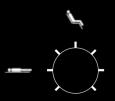
SITTING SE T1 3 mm thk - 2'13"



SUPINE SE T1 4 mm thk - 2'28"



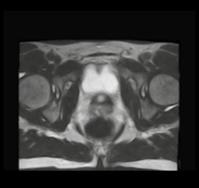




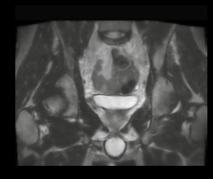
PATIENT POSITIONS: Sitting Supine



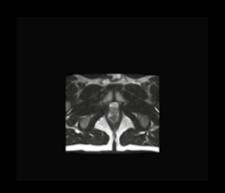
SUPINE FSE T2 5 mm - 4'03"



SUPINE FSE T2 5 mm - 4'09''



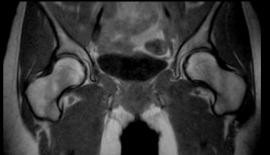
SUPINE FSE T2 5 mm - 4'57"



SUPINE FSE T2 5 mm - 4'09''



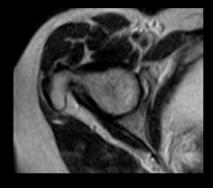




SUPINE FSE PD 5,5 mm thk - 5'16"

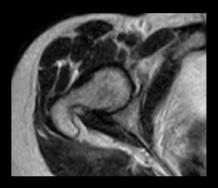


STANDING SE T1 4,5 mm thk - 2'44"



STANDING

STANDING FSE T2 5 mm thk - 1'38"



STANDING FSE T2 5 mm thk - 1'38"



PATIENT POSITIONS:
Supine
Standing
Standing with hip rotation

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



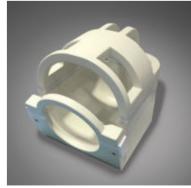
WHOLE SPINE Channels: 8 clinical applications: spine



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

"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.

Testimonials

Professionals

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 can be used both to study the service uses of such scanners and to conduct spinal biomechanics research that uses positional data (e.g. measuring and comparing disc height, volume and area in different positions).

MROpen Evo Graphic User Interface

Easy, intuitive and designed with the workflow in mind



"The interface has made a real difference to our working day. We have been able to decrease our appointment times, and therefore have a greater patient throughput. The calibration is very effective and takes no time at all. The sequences are of good quality and fast. We are able to modify them easily as well. It is easy on the eye, and very user friendly."

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

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)

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



^{*} Flow Compensation available







the best MRI experience



