

SIEMENS

MEDLIGA
медицинское оборудование



[siemens.com/skyra](https://www.siemens.com/skyra)

MAGNETOM Skyra



Tim Technology

Deliver exceptional image quality and speed in MRI



DotGO Workflow

Go for consistent results, efficiently



Trendsetting Applications

Expand your MRI services



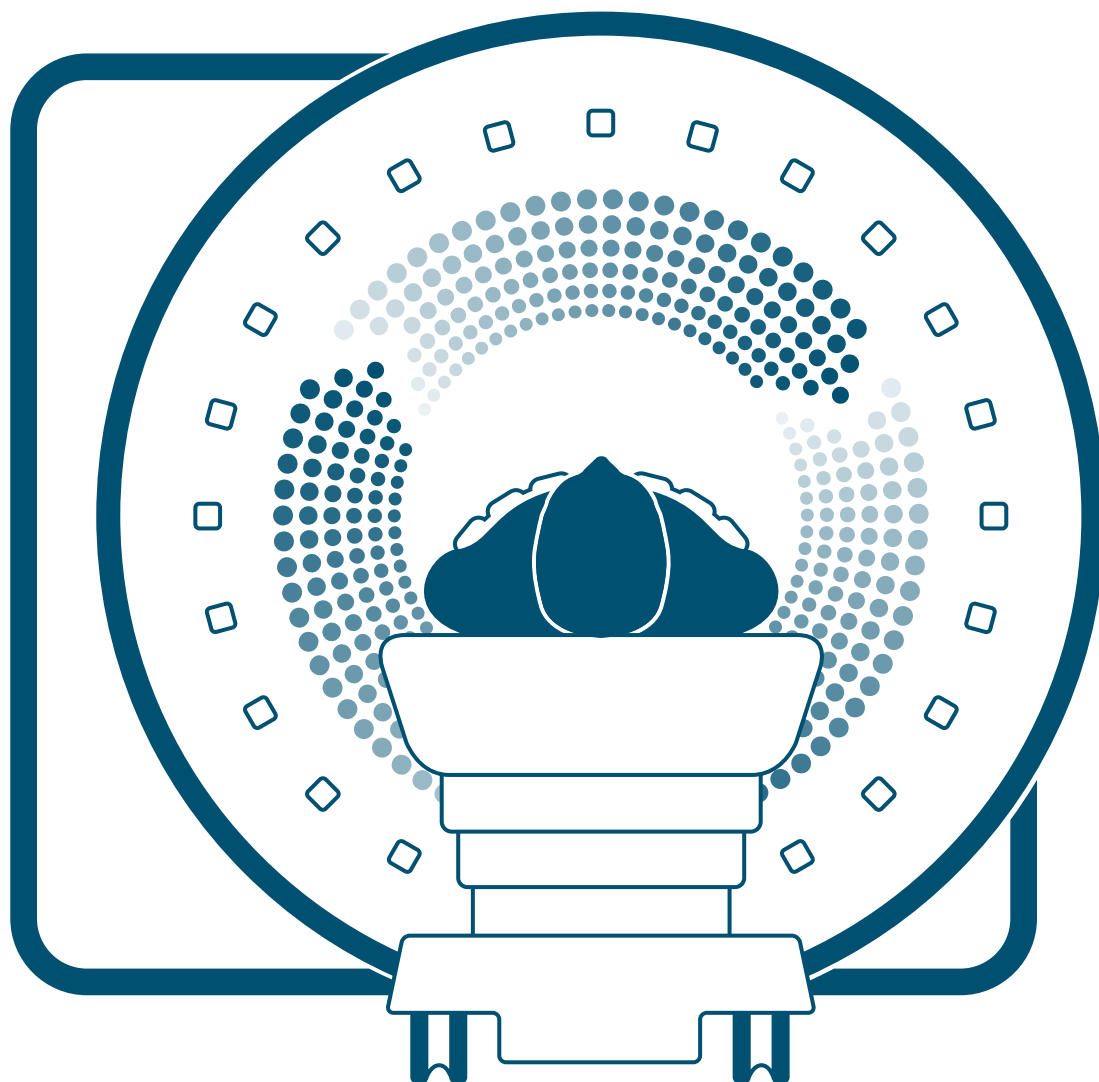
Life Design

Maximize patient friendliness and investment protection

The DNA of Siemens MRI

An intensifying demographic shift, the rise of chronic diseases, patients turning into consumers, the pace of innovation, and broader access to medical imaging across the globe lead to a constantly growing number of examinations, including MRI. At the same time, this development raises central questions

for you as healthcare- and us as



equipment-provider alike: How to manage volume growth with limited resources? How to control costs without compromising quality of care? How to expand services in either established or growing markets? How to continuously strive for clinical excellence in the interest of patients despite economic restraints?

Siemens MR provides answers to these questions by offering a unique combination of MRI technology, software and clinical applications, supporting you in turning these challenges into opportunities.

Uncover what lies behind Siemens' leading MRI technology.





MAGNETOM Skyra Maximize 3T.

MAGNETOM Skyra Maximize 3T.

Healthcare providers are under pressure to deliver higher quality care at lower cost. As MRI continues to prove its diagnostic value, more scans are being performed, and in new clinical fields.¹ However, global reimbursements for MRI procedures continue to fall; in the USA, payments for some exams have dropped by 34%² since 2013.³ MAGNETOM Skyra is 3T MRI designed to turn these challenges into opportunities. It accelerates exams for increased scanner utilization, standardizes and streamlines procedures, and serves new and growing patient populations. Maximize 3T with MAGNETOM Skyra.

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MAGNETOM Skyra at a glance

Maximize 3T.

Less than
1 minute
exam-time variation⁴

- Routine tasks automated with DotGO workflow
- Time savings for technicians

Up to **40%**
faster MRI exams⁵

- 5-minute, push-button brain exam with GOBrain
- Rapid image acquisition with Tim 4G coil technology

Serve growing
patient populations

- Expand body MRI services
- Add an additional layer of pixel-based diagnostic information with MyoMaps



Up to **97%** reduction in sound pressure⁶

- Complete, quiet neurological and orthopedic examinations
- Greater patient acceptance, fewer rescans

Push the limits with advanced neuro MRI

- Introduce advanced DTI and BOLD imaging for pre-surgical planning with Simultaneous Multi-Slice (SMS) Reduce DWI scan times by approx. 40%⁷

22% lower energy consumption⁶

- Fast, easy installation and a small system footprint
- Best-in-class energy efficiency, Zero Helium boil-off





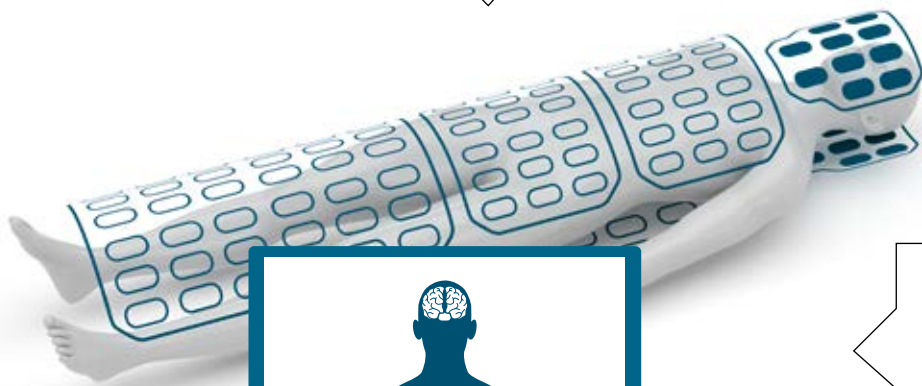
Deliver exceptional quality and speed

Make the most of your MRI scanner and improve cost-effectiveness by accelerating scans for each and every patient. GOBrain enables clinically validated push-button brain examinations in five minutes. This is made possible by Tim 4G's ultra-high coil element density, delivering exceptional quality and speed for efficient processes, day-in and day-out.

Deliver exceptional quality and speed

with GOBrain

Up to **40%**
faster MRI exams⁵



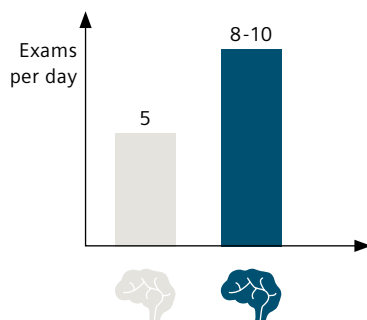
5-minute,
push-button brain
examinations

Up to **204**
channels*

Up to **128**
independent
RF channels

Flexibility. Accuracy. Speed.

Tim 4G integrated coil technology features up to 204 channels* that can be connected and up to 128 independent RF channels that can be used simultaneously in one single scan and in one single FOV, each generating an independent partial image. This enables efficient, effective scanning without repositioning coils or patients. An exceptional signal-to-noise ratio (SNR) means superior image quality and accuracy for diagnostics. Additionally, advanced simultaneous parallel acquisition



GOBrain is clinically validated for the six most common neuro examinations. It potentially doubles the number of brain scans to 8-10 per day due to shortened scan times.

GOBrain enables brain exams with multiple orientations and all relevant contrasts. Reduce the need for sedation and rescans to cut the cost per scan.

5-minute exams with GOBrain

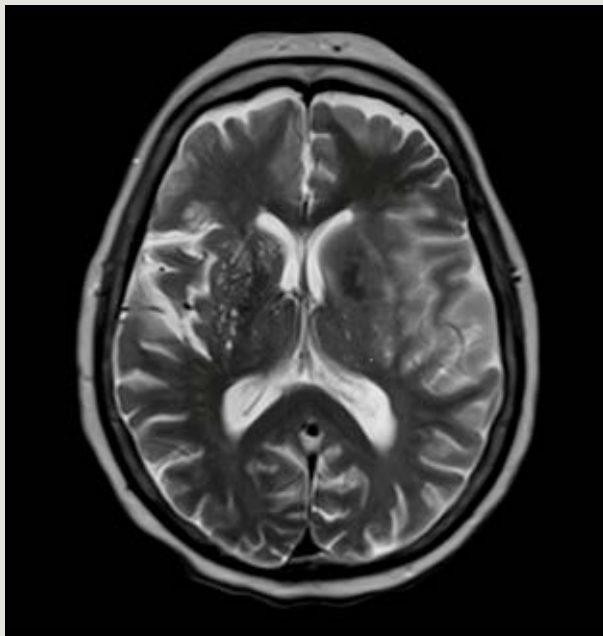
Supported by the latest Tim 4G integrated coil technology, GOBrain enables fast, clinically validated brain examinations with multiple orientations, and all relevant contrasts – including diffusion and T2*. By accelerating exams, GOBrain increases patient throughput and helps improve diagnostic processes for neurological patients. It is ideal for

patients who find remaining immobile for an extended time difficult, and helps minimize motion-related artifacts. And by maximizing scanner utilization, GOBrain reduces the cost per scan.

Sag T1: 41 s

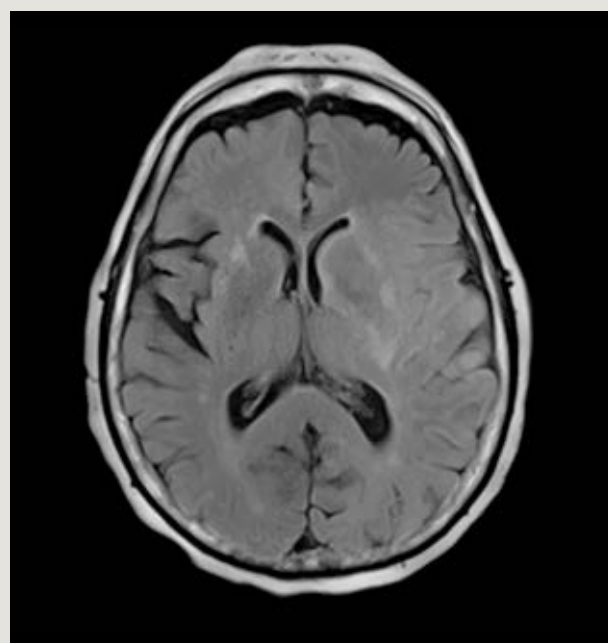


Ax T2: 62 s



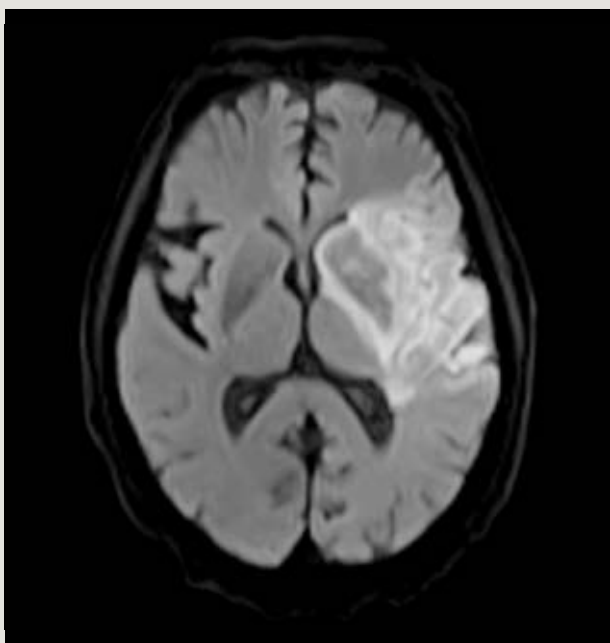
NEUROLOGY: By leveraging the latest Tim 4G technology, GOBrain enables fast, clinically validated brain examinations, enhancing productivity.

Massachusetts General Hospital, Boston, USA

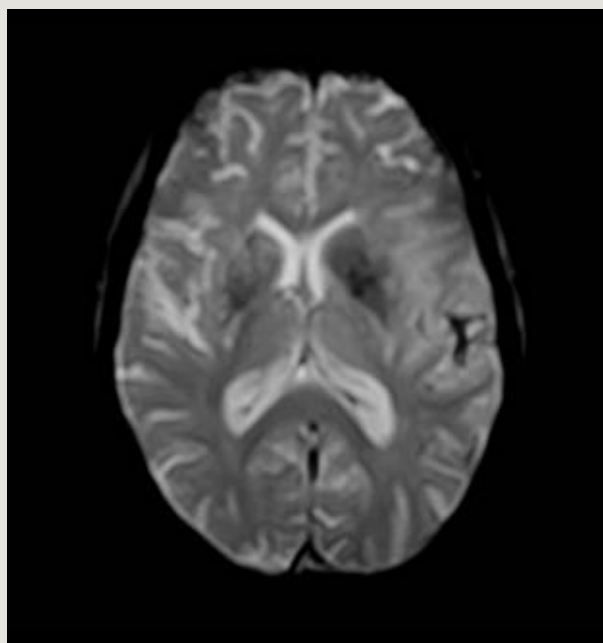


Ax T2 DarkFluid: 41 s

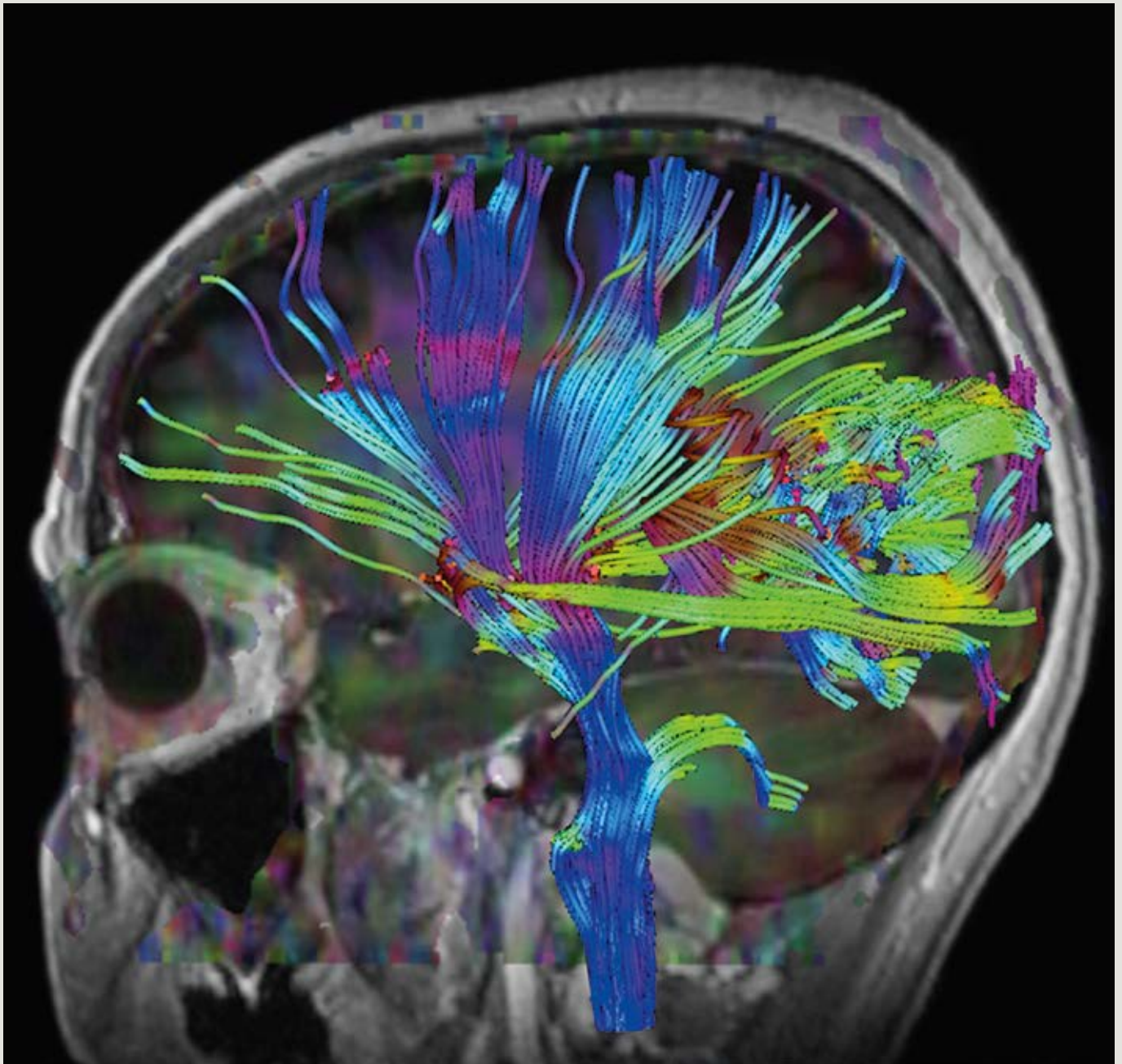
Brain exam on MAGNETOM Skyra
with GOBrain: multiple
orientations and all relevant
contrasts in 4:59 minutes.



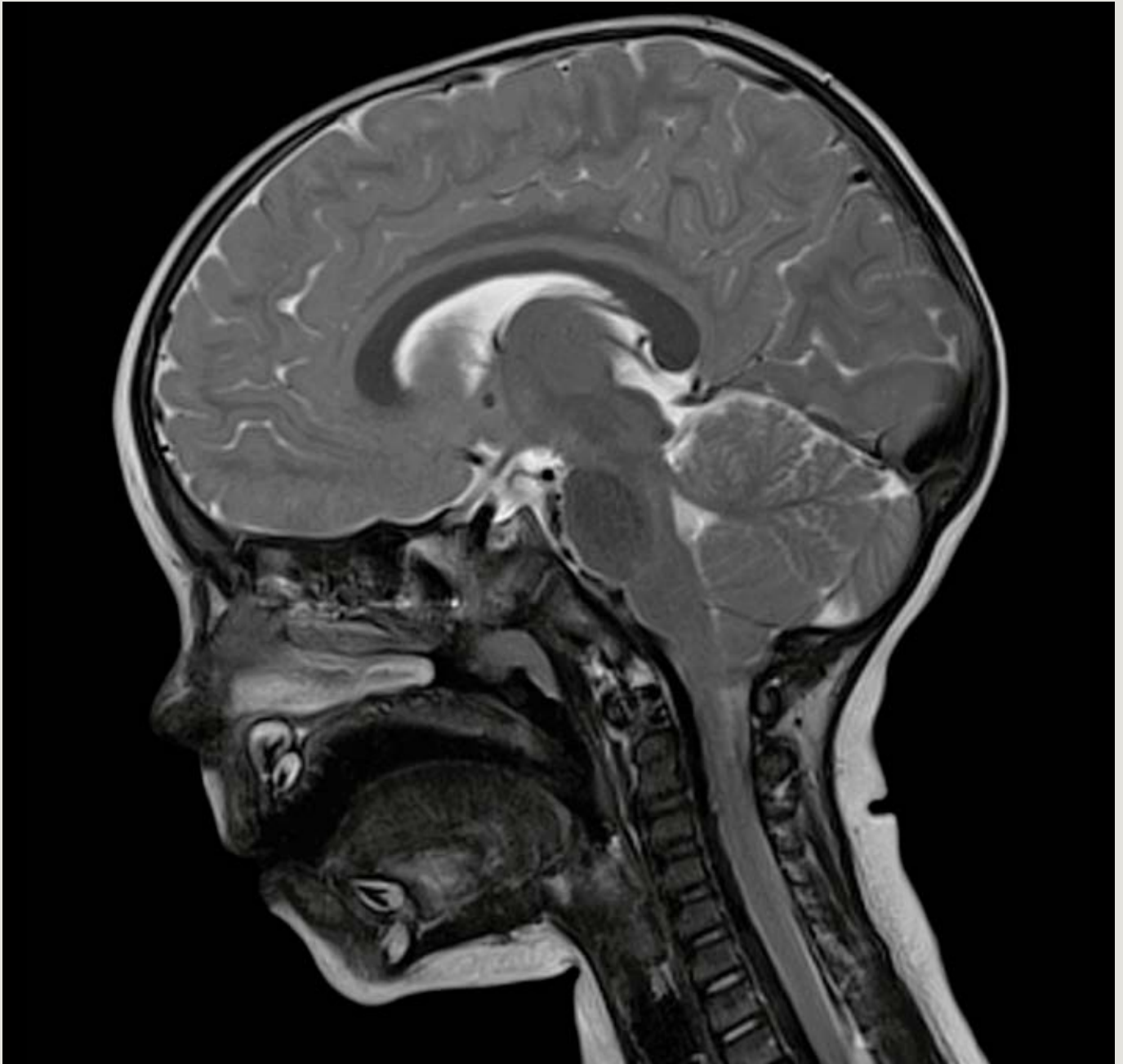
Ax DWI: 80s



Ax T2* Hemo: 6s

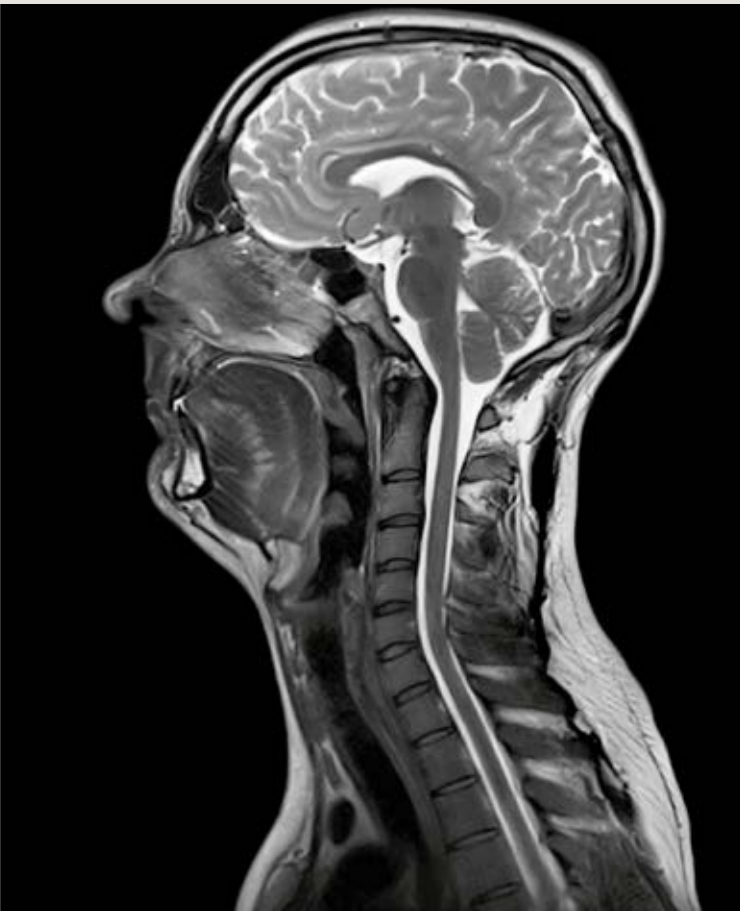


NEUROLOGY: Tim 4G delivers benefits in both neurological research and clinical routine – thanks to increased SNR and a new architecture.
MRI Medical Radiological Institute, Zurich, Switzerland



PEDIATRICS: Ultra high-density, light-weight Tim 4G coils enable faster examinations, helping reduce the need for sedation and rescans in pediatrics.⁸

University Hospital KISPI Beider UKB, Basel, Switzerland



HEAD/NECK: With excellent SNR, the Head/Neck 64 coil reveals previously hard-to-recognize details in the brain, inner ear, orbits, skull base, neck and spinal cord – improving insights in neuroanatomy while enhancing scan time and resolution.

“The Head/Neck 64 reveals previously hard-to-recognize, but pertinent anatomical and disease-related details for a spectrum of pathologies within the brain, inner ear, orbits, skull base and neck, as well as the cervical spinal cord. This leads to improved insights into neuroanatomy relevant to an extended range of diseases. All this can be achieved, fortunately, at advanced speed and resolution.”⁹

Prof. Bernhard Schuknecht, MD
Diagnostic, Vascular and Interventional Neuroradiology
MRI Medical Radiological Institute, Zurich, Switzerland



WHOLE BODY: Superior-quality imaging from meters to microns. Cover the entire body up to 205 cm, with enough resolution to see small details.

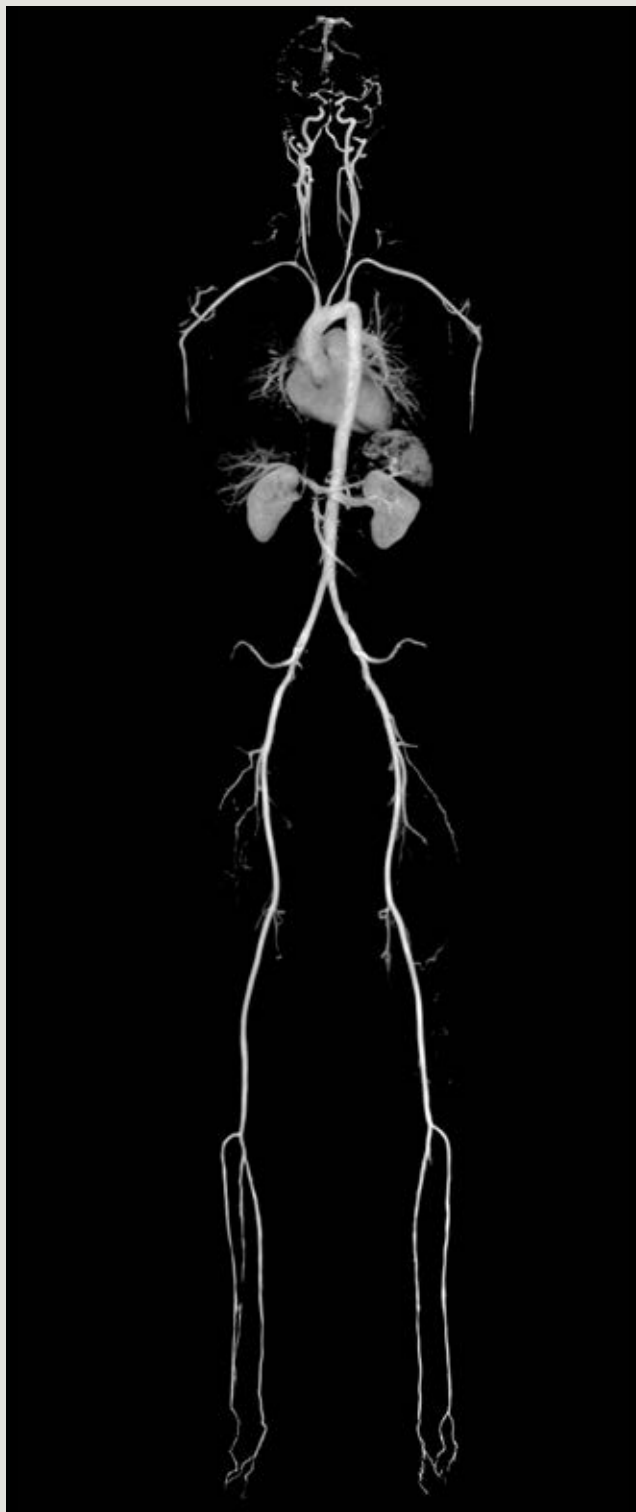


ORTHOPEDICS: Tim 4G's ultra high-density coils for MSK imaging maximize SNR and anatomic coverage.

Top left: Radiologisches Zentrum Muenchen-Pasing, Munich, Germany

“Every day, we experience progress in diagnostics achieved with MAGNETOM Skyra. It’s a pleasure to work with this system. MAGNETOM Skyra is robust, efficient and reliable.”⁹

Christoph Tillmanns, Cardiologist,
Head of Cardiology, Diagnostikum Berlin, Berlin, Germany

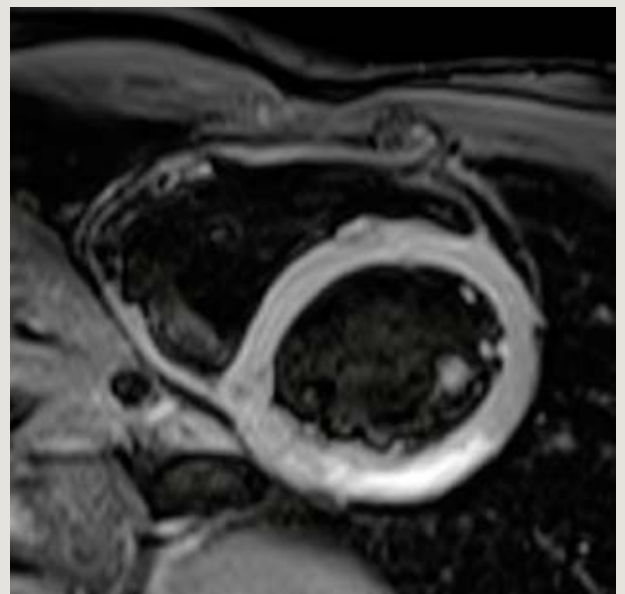


ANGIOGRAPHY: Tim 4G’s new ultra high-density coils and 205 cm scan range allow you to perform high-resolution whole-body angiography easily and without repositioning the patient. And, with DotGO’s on-board guidance, you can move through the scan with ease.

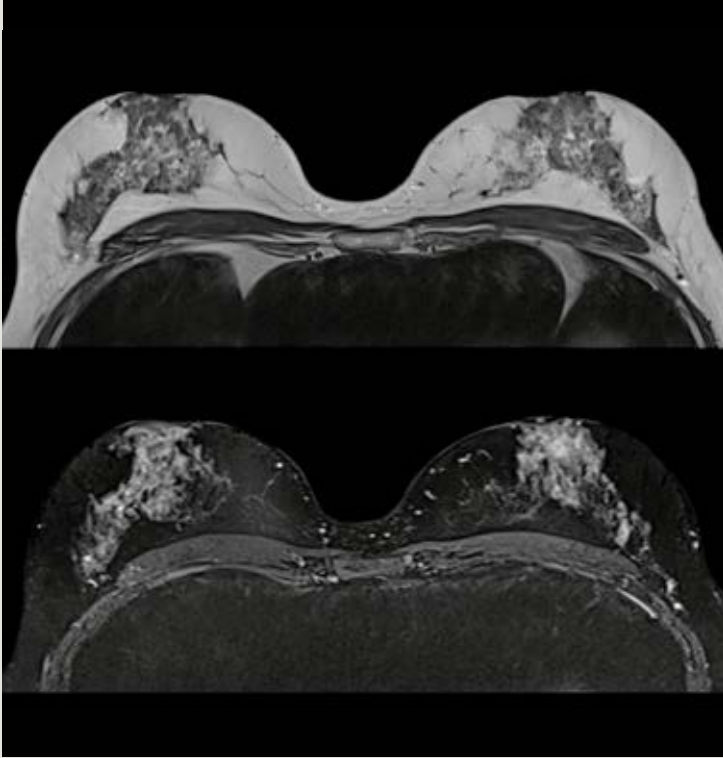


BODY: Tim 4G offers high-channel body imaging thanks to the combination of ultra high-density body and spine coils. Moreover, our trendsetting applications help you expand your service lines in MRI.

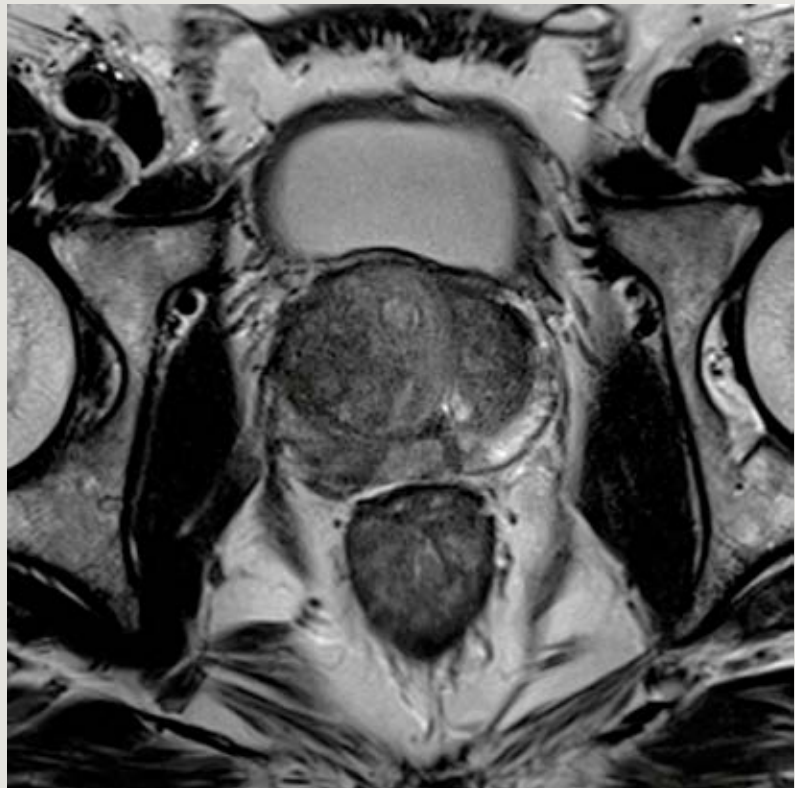
University Hospital IKRN, Mannheim, Germany



CARDIOLOGY: Cardiac examinations benefit from high SNR and increased parallel imaging factors in any direction to achieve ultra-fast acquisition times, from morphology, function, and perfusion, to viability.



BREAST MRI: From clinical imaging to biopsy guidance, MAGNETOM Skyra and Tim 4G offer a wide selection of breast coils and outstanding image quality.



PROSTATE MRI: With the high-density spine and body coils alone or in combination with an endorectal coil, Tim 4G delivers excellent flexibility in multiparametric imaging of the prostate in terms of morphology, physiology and function.

St. Andrews Hospital. Adelaide. Australia



Go for consistent results, efficiently

Tailor and manage your protocols in line with your specific needs, improve flexibility, and deliver high-quality care, consistently. DotGO¹⁰ keeps your processes running on time with intuitive protocol management, user guidance, and smart automation techniques – integrated into a single user interface. Leverage powerful DotGO solutions to ensure efficient workflows and consistent image quality – for all patients and technicians.

Go for consistent results, efficiently

with DotGO workflow

Less than
1 minute
exam-time variation⁴

90%
of MRI exams
covered by
Dot engines¹¹



80% better
usability in MRI
exam configuration¹⁰

Flexibility

With one central user interface to configure any protocol and flexibly create your exam strategies, DotGO empowers you to define a higher standard of care and service for more patients and referrers. And it lets you adjust strategies on-the-fly to accommodate a multitude of clinical requirements, individual patient needs and changing scenarios.

“The key feature of the new DotGO is the ability to quickly see your entire protocol on one page, as opposed to having to drill down multiple levels to see what your protocols actually are. It gives us a great overview of the protocol. You know exactly what’s in there at any given time just by glancing at it.”⁹

Anthony Pavone
Chief MRI Technologist
Zwanger-Pesiri Radiology, New York, USA

Consistency

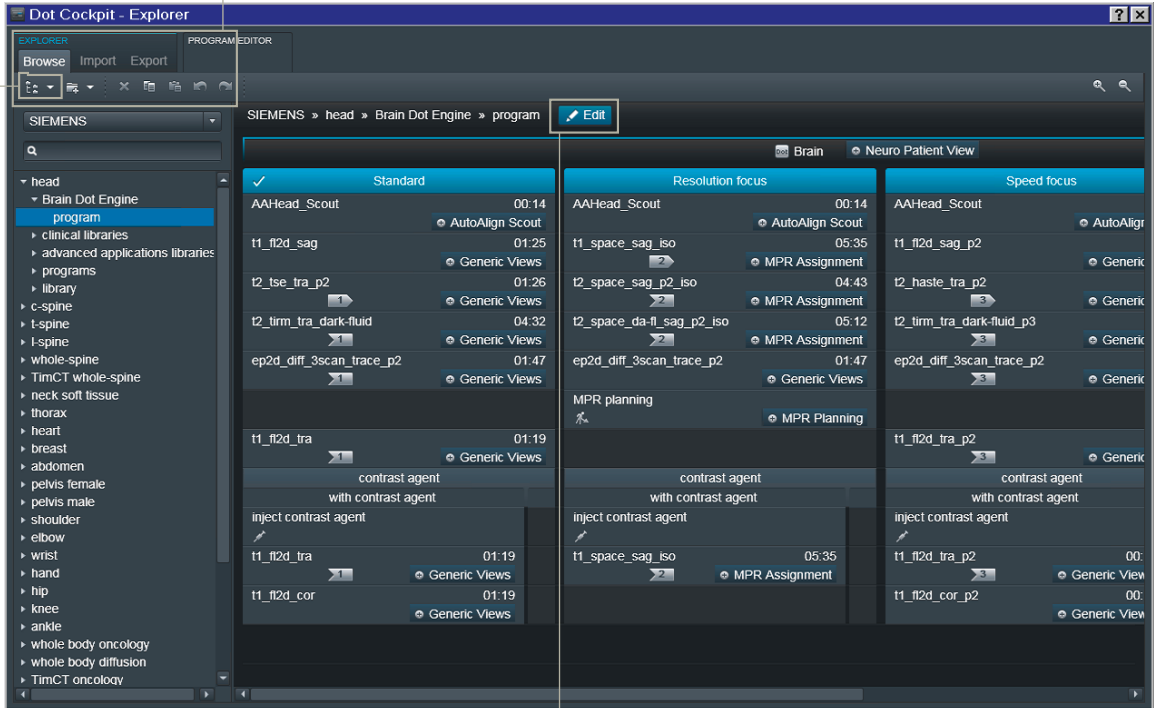
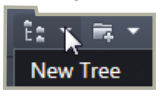
DotGO enables you to standardize your MRI operations with a comprehensive guidance system, predefined strategies and Dot engines that create reproducible, high-quality outcomes every time. This significantly reduces the need for rescans and allows any technician to perform any exam with consistent results – even for complex cardiac imaging.

Efficiency

Thanks to DotGO’s automated functionalities, MAGNETOM Skyra dramatically improves the efficiency of your MRI workflow. Auto-slice positioning, auto-voice commands and auto-organ labeling reduce the level of interaction required from technicians, freeing them up for other important tasks, as well as standardizing exam times and lowering costs.

Explorer and Editor in one interface
Easy navigation and shortcuts

Multiple User Trees



Edit protocols instantly

Zoom in and out to conveniently display protocols

Build as many strategies as you need



Create a strategy

Dynamic context search,



Brain Dot Engine

More efficient and reproducible brain exams.



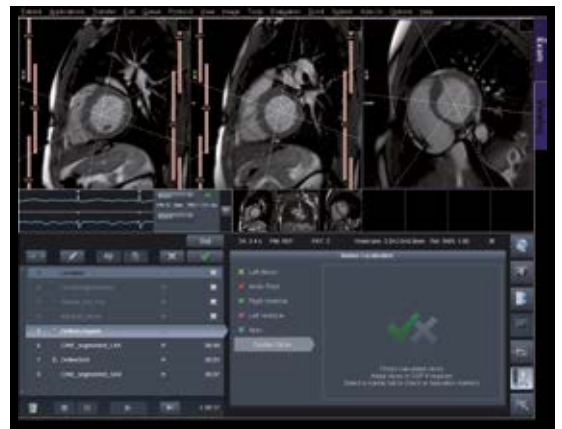
Spine Dot Engine

Optimized spine imaging for a wide range of patients and conditions.



Breast Dot Engine

Increased certainty in breast imaging.



Cardiac Dot Engine

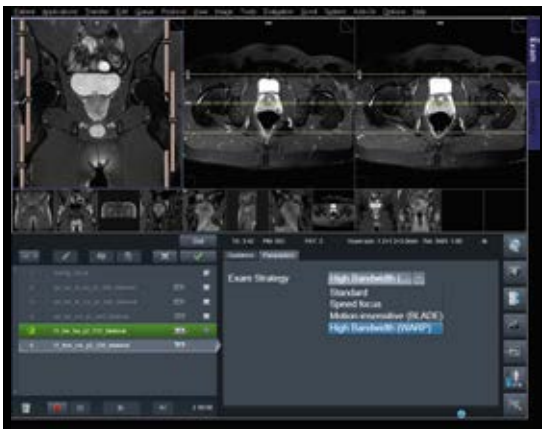
Up to 50%⁶ increase in patient throughput.

“Dot engines really enhance our throughput in day-to-day scanning, but also improve quality reproducibility. Dot helps technicians and radiologists produce excellent images.”⁹

Anthony Pavone
Chief MRI Technologist
Zwanger-Pesiri Radiology, New York, USA

“The number of failed examinations has been drastically reduced by the Dot engines, and the angiographies have become better. Everything is simply much more standardized now.”⁹

Prof. Thomas Vogl
 Medical Director of the Institute for
 Diagnostic and Interventional Radiology of
 the University Hospital Frankfurt, Germany
 Spokesperson of the Frankfurt Klinikallianz



Large Joint Dot Engine

Increased consistency for all large joints – hip, shoulder, and knee.



Abdomen Dot Engine

Optimized bolus timing for dynamic liver examinations.



Angio Dot Engine

Optimally timed contrast images with interactive bolus timing.



Tim CT Angio Dot Engine and Tim CT Onco Dot Engine

A unique combination of Siemens' technologies, helping you achieve one smooth Field of View (FoV) using the Continuous Table Move.



Expand your MRI services

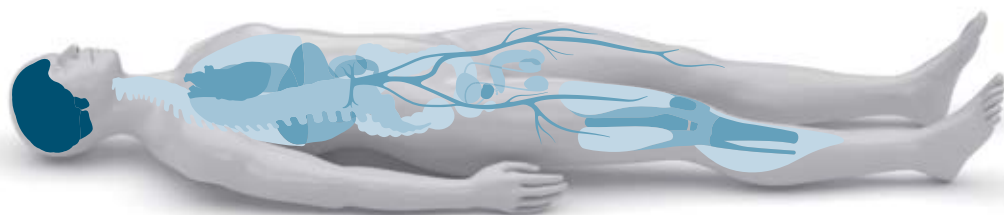
Serve new and growing patient populations with trendsetting applications. Overcome the challenges of body MRI with FREEZEit and offer free-breathing examinations to patients with limited breath hold capabilities. Further extend your MRI services with Simultaneous Multi-Slice (SMS)⁷, a paradigm shift in MR imaging. With SMS, it is now possible to significantly accelerate 2D exams and perform advanced neurological examinations on a routine basis.

Expand your MRI services

with Simultaneous Multi-Slice

Reduce DWI scan times by approx. **40%**⁷

Push the limits with advanced neuro MRI



Serve growing patient populations

More precision

Simultaneous Multi-Slice imaging is a paradigm shift in MRI acquisition. It dramatically accelerates advanced neuro examinations for faster diffusion and BOLD imaging, to help make these advanced techniques more suitable for clinical routine imaging.

More applications

Siemens offers the broadest portfolio of MR applications on the market. With MAGNETOM Skyra and trendsetting applications, you can deliver a comprehensive and unique range of 3T services seamlessly integrated with DotGO. As a result, you can expand and differentiate your offering, making even the most challenging of exams part of your clinical routine.

“The images are exceptional, and the handling of the system and the patient will make MRI diagnostics much more efficient in the future. This opens up new opportunities for further integration of cutting-edge scientific developments into clinical routine.”⁹

Prof. Stefan Schönberg, MD
Director, Institute for Clinical Radiology and Nuclear Medicine
University Medical Center Mannheim, Germany



More than **70%**
of research performed using
3T systems worldwide is
conducted on a Siemens
MAGNETOM 3T scanner.¹³

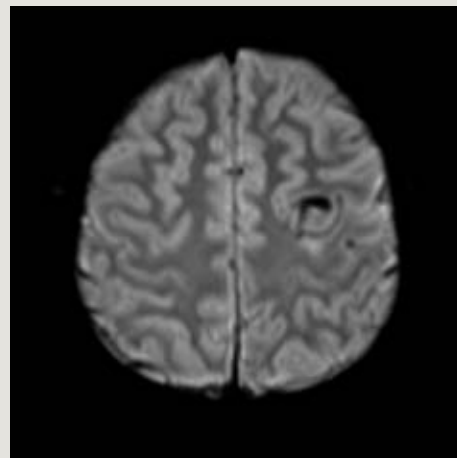
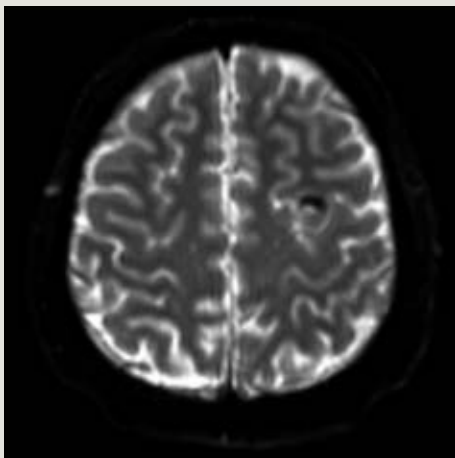
More patients

Trendsetting applications help you open up your service offering to more patient groups. So you can accommodate a larger variety of medical conditions as well as diverse body shapes and sizes. Furthermore, shorter breath holds and reduced scan times mean less need for sedation, fewer rescans, and greater patient satisfaction.

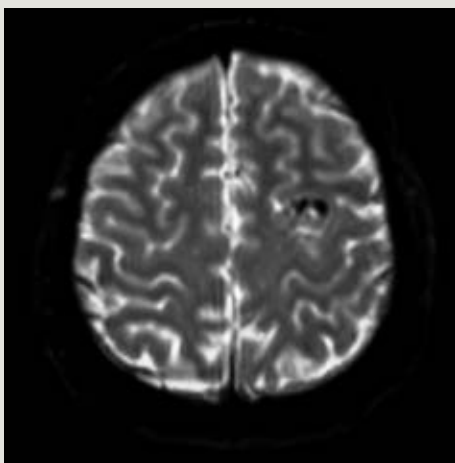
More research

Over 70%¹³ of 3T MRI research worldwide is conducted on Siemens equipment. With good reason – because MAGNETOM delivers a powerful system coupled with leading-edge applications and excellent support services. Moreover, Siemens actively engages with the research community, helping you add value to your work.

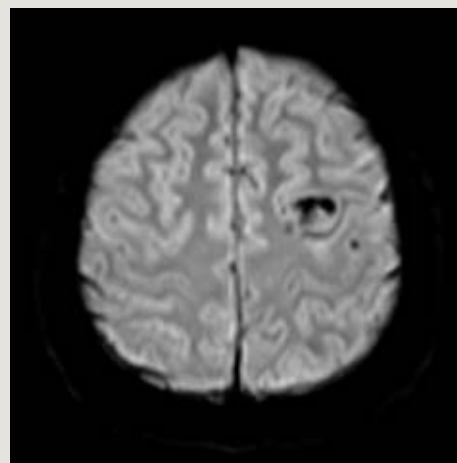
Conventional
TA 2:20 min
NYU School of Medicine,
New York, USA



SMS 2
TA 1:21 min
NYU School of Medicine,
New York, USA

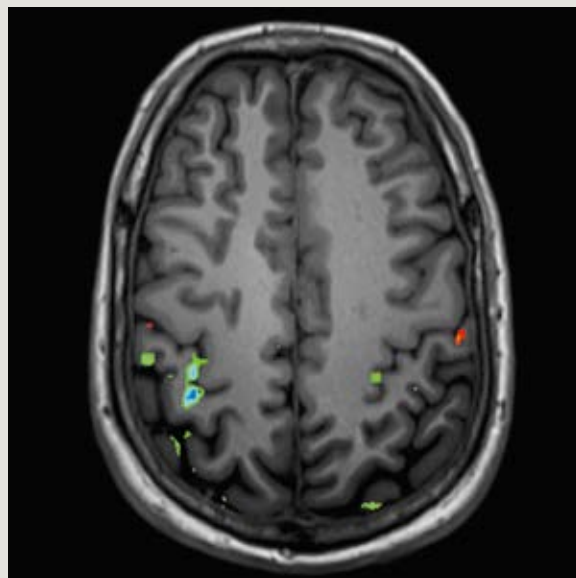


Diffusion
b-value 0

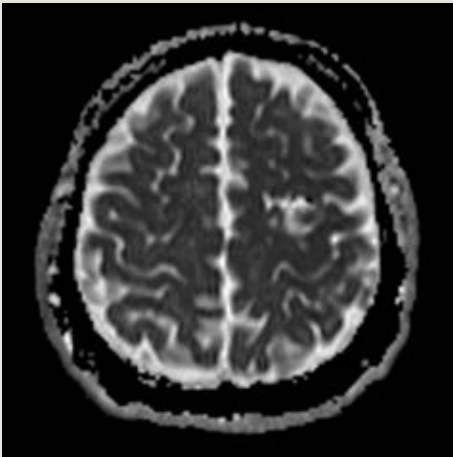
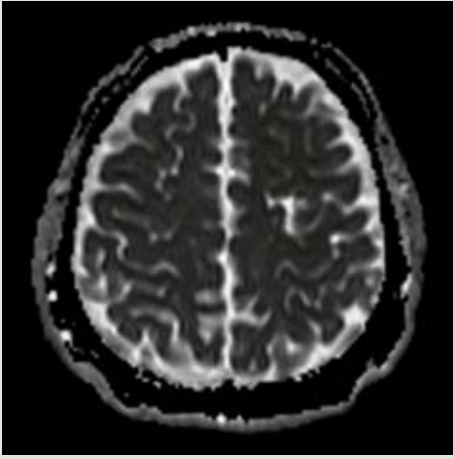


Diffusion
b-value 1000

Paradigm: Finger tapping
(baseline), tongue movement
(active), same threshold level
on all images.



Conventional BOLD
TR 2000 (60 measurements)

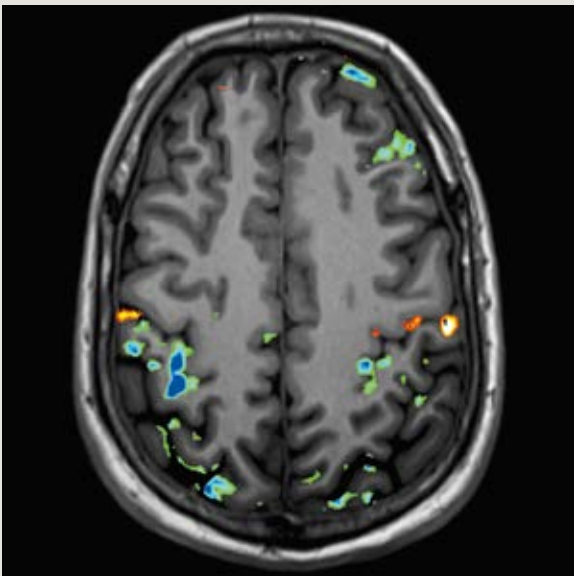


Diffusion
ADC map

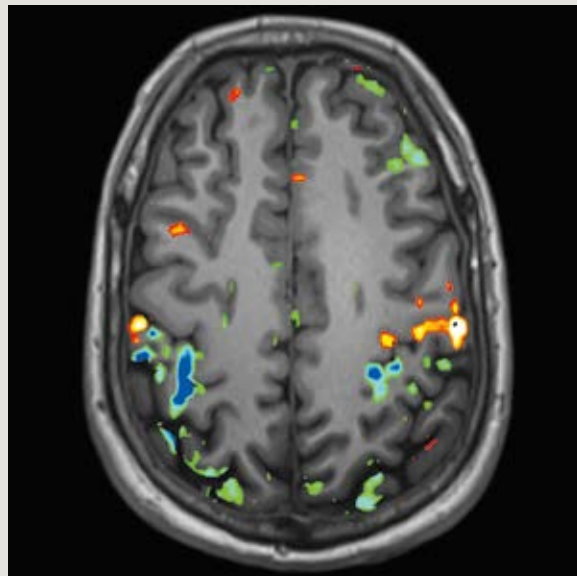
“Simultaneous Multi-Slice [...] may represent one of the major innovations this decade for MR with widespread clinical utility.”⁹

Val M. Runge, MD
Editor-in-Chief; ›Investigative Radiology‹
Visiting Professor; University Hospital, Zurich

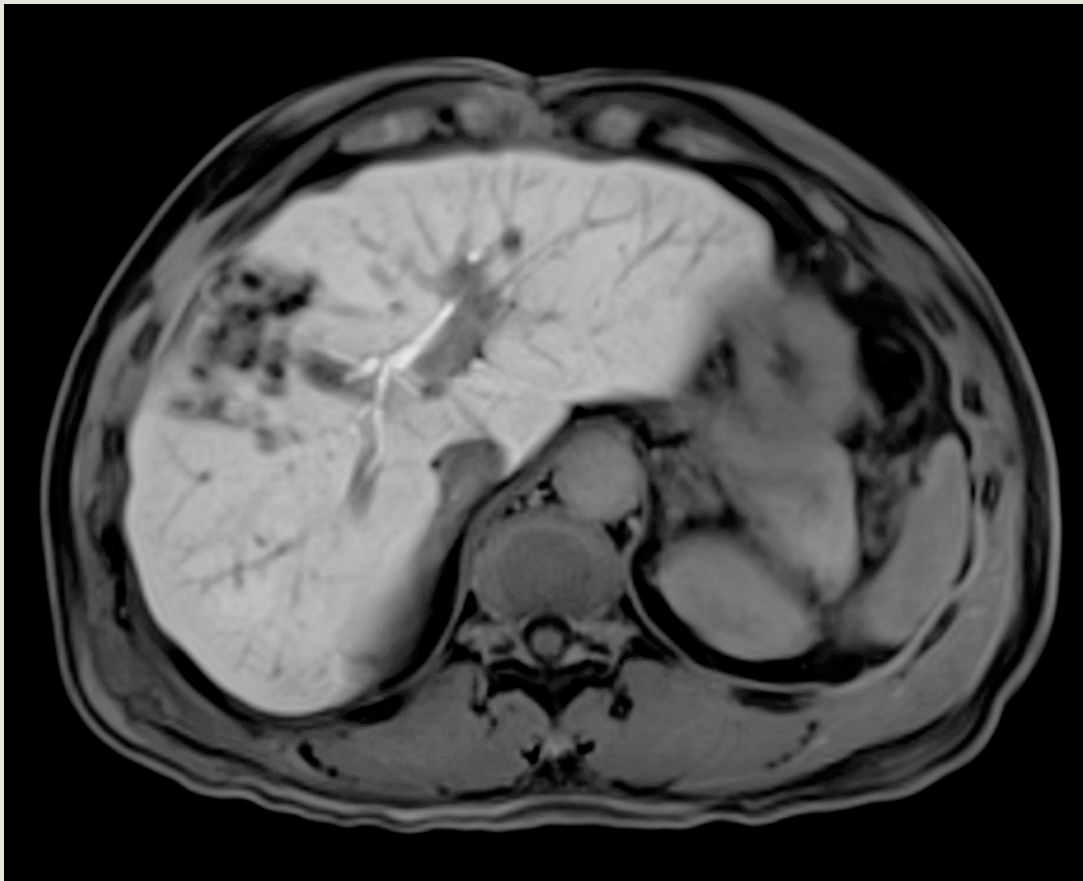
Simultaneous Multi-Slice (SMS): DWI is an important part of any comprehensive MRI brain scan. SMS can reduce scan times without compromising image quality. As a result, it enhances scanner efficiency, and increases flexibility for patient scheduling.



BOLD with SMS 2
TR 1600 (120 measurements)



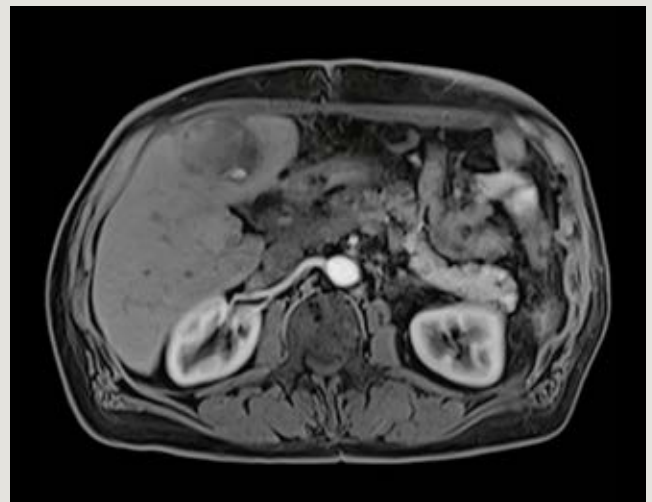
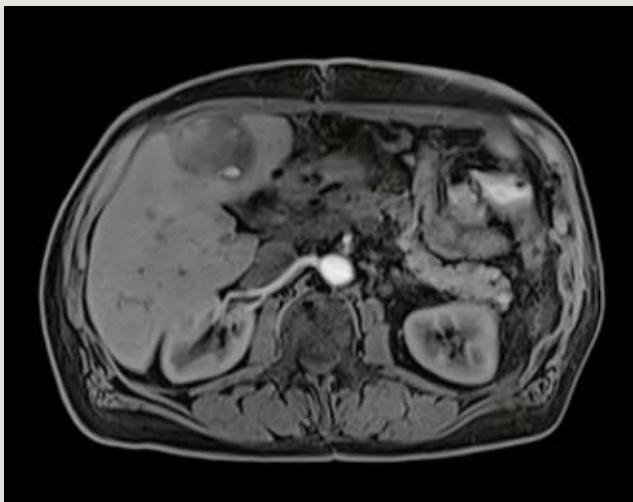
BOLD with SMS 4
TR 800 (240 measurements)

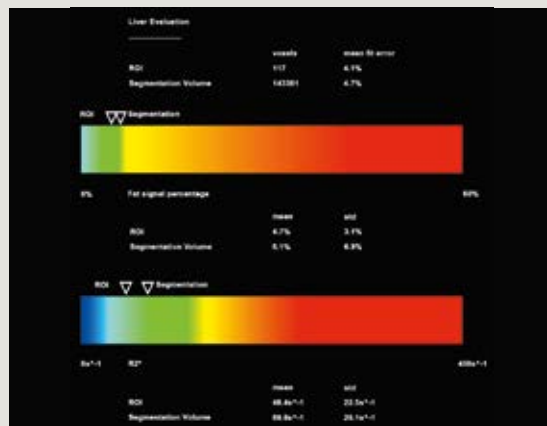
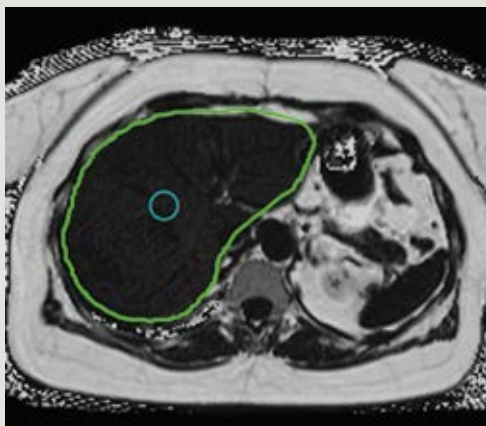


StarVIBE: Enable free-breathing and contrast-enhanced exams for a range of patient groups thanks to StarVIBE's effectiveness against motion artifacts.

Mount Sinai Hospital,
New York, USA

FREEZEit: Take abdominal imaging to the next level with our embrace motion technology. MRI exams of the liver have become increasingly difficult due to contrast timing challenges and breathing motion. FREEZEit, combining TWIST-VIBE and StarVIBE, makes MRI faster and more robust than ever, overcoming previous limitations and significantly pushing the boundaries of what's possible.



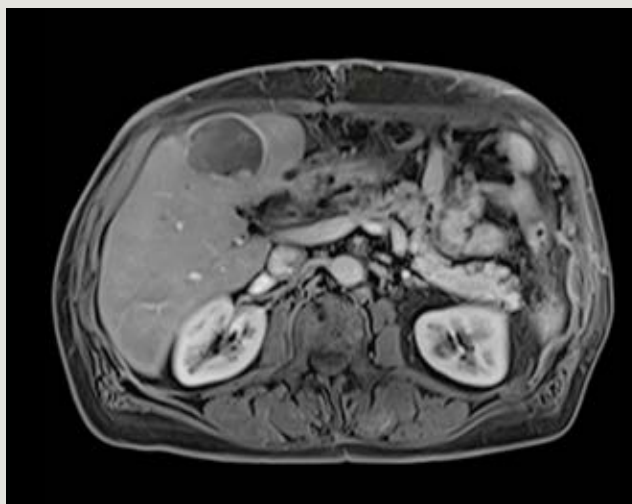
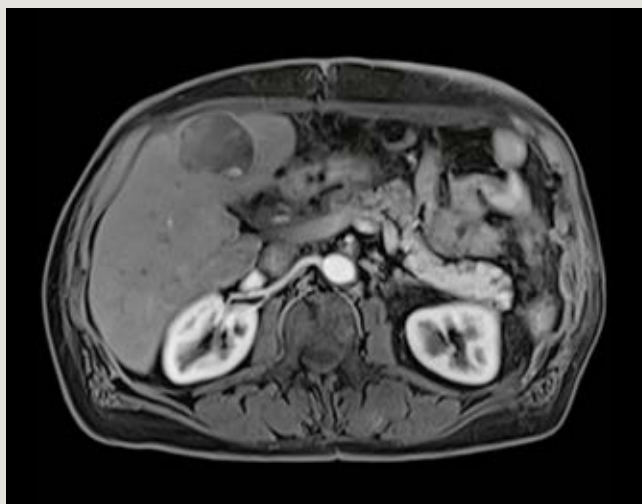


LiverLab: Monitor the growing number of liver disease cases. LiverLab supports quantitative, non-invasive liver evaluation.

ZEMODI, Bremen, Germany

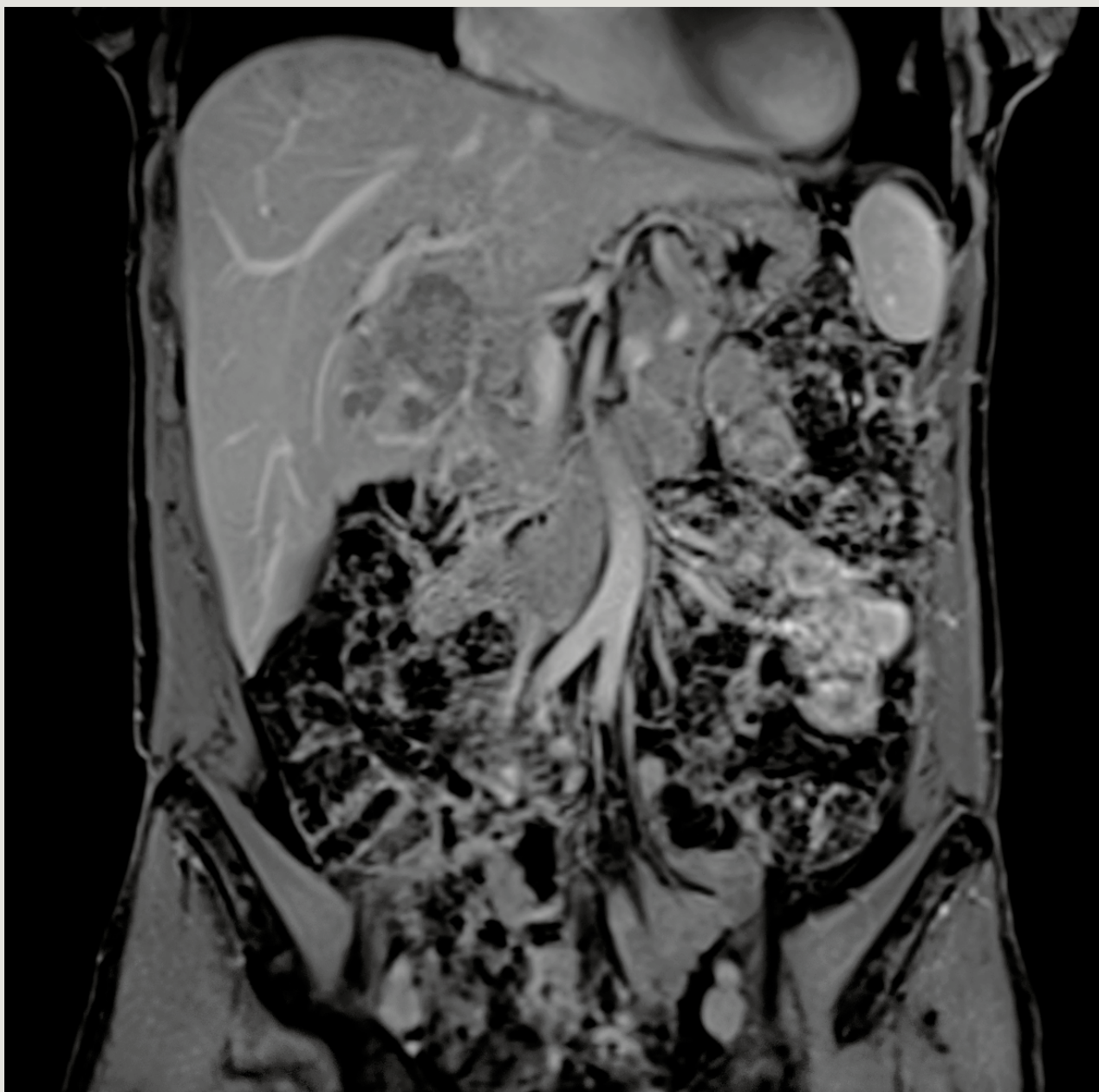
TWIST-VIBE: Benefit from high temporal and high spatial resolution so that you always get the right contrast in dynamic examinations.

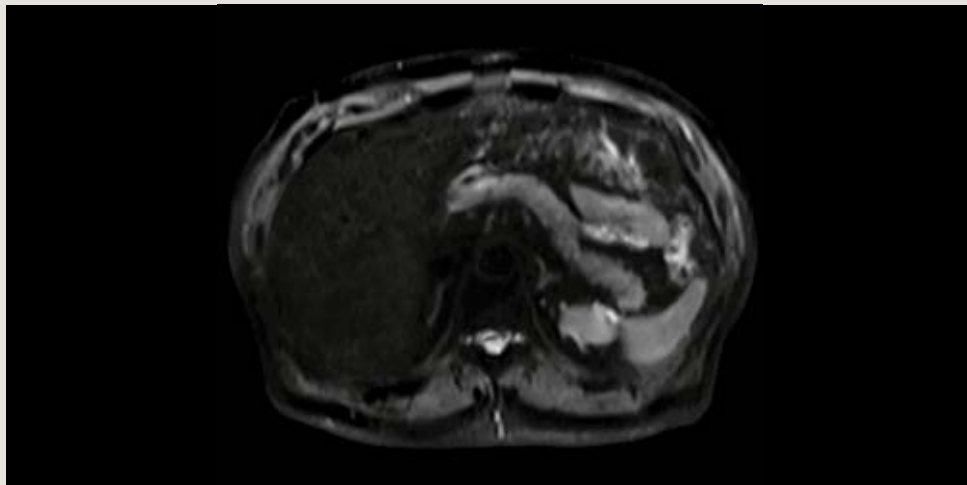
University Hospital IKRN, Mannheim, Germany



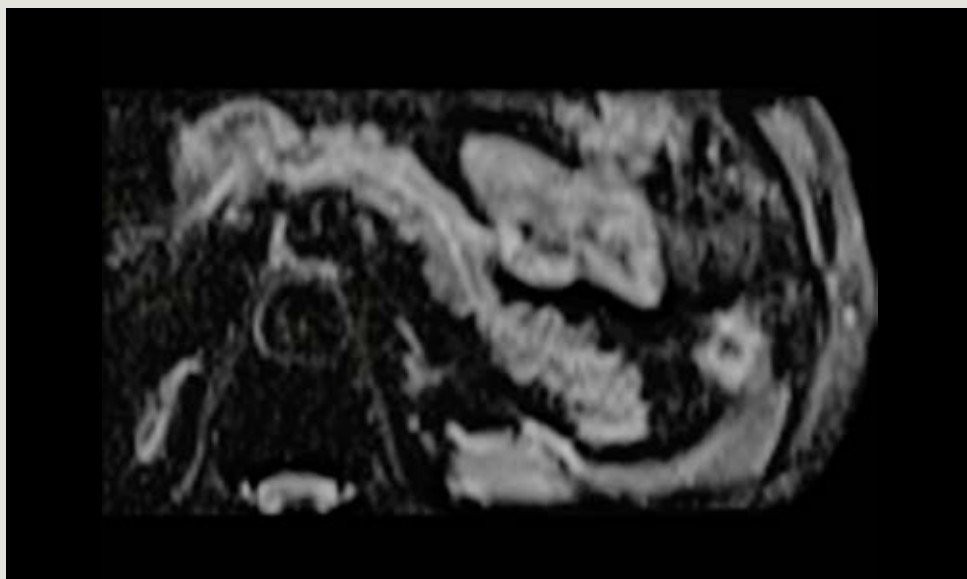
CAIPIRINHA: Address patients with limited breath-hold capacity with Siemens' unique CAIPIRINHA application and ultra-short breath holds – standard with your MAGNETOM Skyra.

Calvary John James Hospital, Deakin, Australia





Conventional DWI, b=50



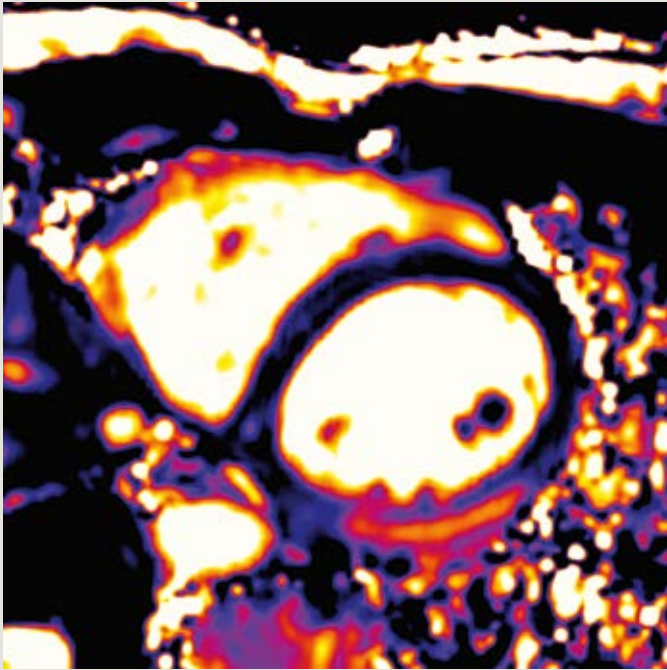
ZOOMit DWI, b=50

ZOOMit: Zoom into your image to view the smallest details, improve diagnostics and expand research possibilities with ZOOMit, powered by TimTX TrueShape.



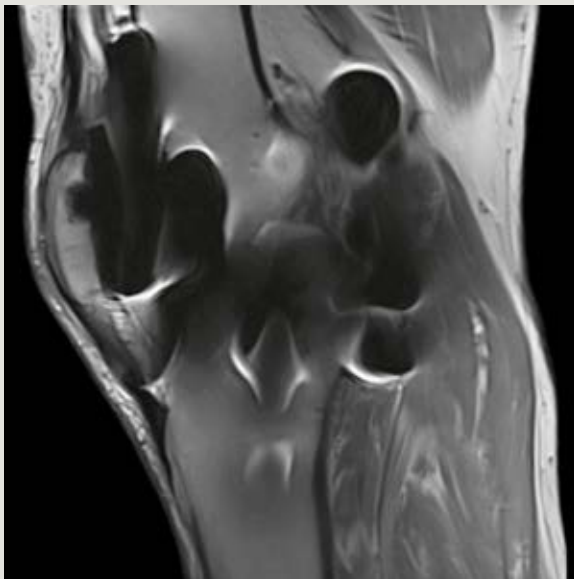
Visit
Siemens
MRI Gallery

health.siemens.com/mr/image-gallery

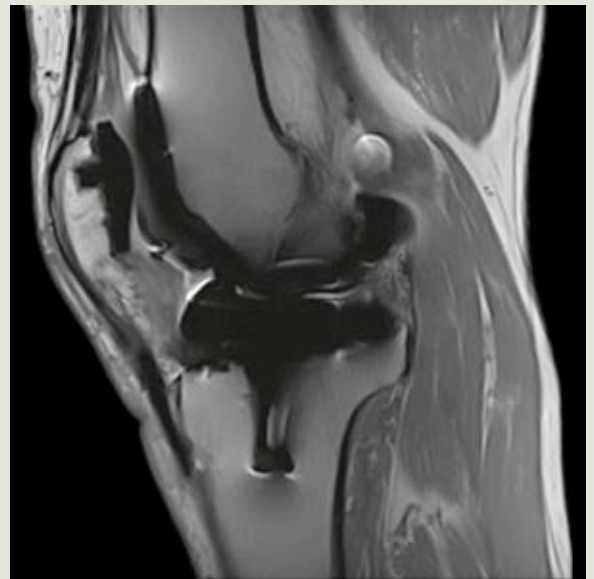


MyoMaps: Benefit from inline myocardial quantification, detect normally missed global, diffuse, myocardial pathologies (T1 Map) and better depict cardiac edema (T2 Map) with MyoMaps, based on Siemens' unique HeartFreeze.
Diagnostikum Berlin, Berlin, Germany

Advanced WARP: Serve rapidly growing patient populations that have artificial joints.¹⁴ The benefits are substantial: infections can be diagnosed earlier and there is a significant gain in image quality for any MR indication.
University of Texas Medical Branch, Galveston, USA



Conventional



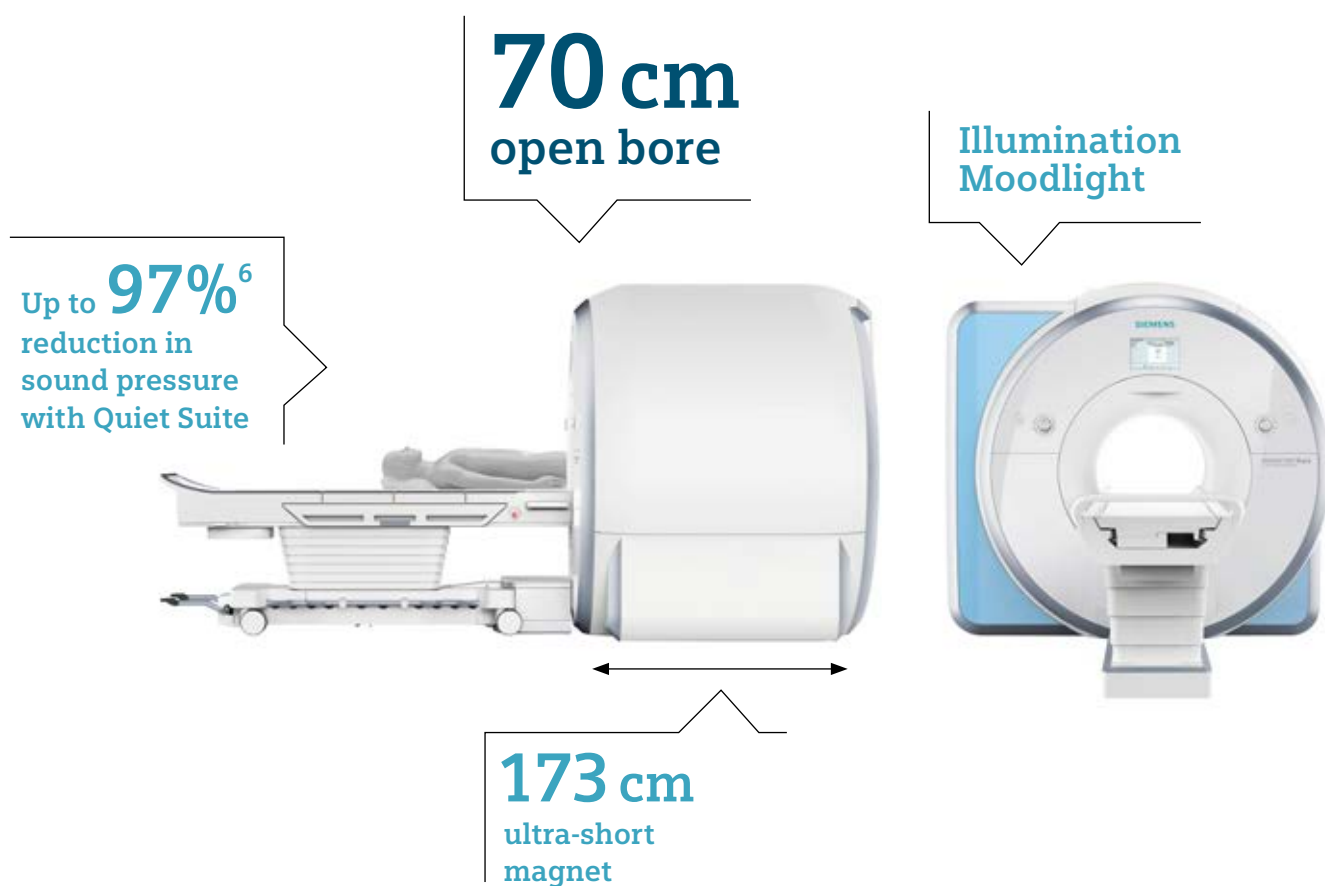
Advanced WARP



RESOLVE: Experience outstanding diagnostic performance with sharp, high-resolution DWI and DTI of the brain and spine.

Expand your MRI services

with Life Design



Maximized patient comfort

A key element of Siemens MRI Life Design is putting the patient first. MAGNETOM Skyra's 70 cm open bore allows 30 cm of space above the patient's face, improving comfort. The shortest magnets in the industry enable more exams to be performed with the head outside the bore. These and other leading-edge features increase satisfaction and allow you to serve more patient groups.

Quiet Suite

Conduct complete, quiet exams for neurology and orthopedics, with up to 97% reduction in sound pressure.⁶ Quiet Suite minimizes the need for sedation of certain groups of patients such as children⁹ and the elderly – without compromising image quality. Because imaging is to be seen, not heard.



Tim coil technology: Tim 4G technology accelerates patient set-up and provides a high level of patient comfort.

“That 70 cm bore makes a world of difference. And the new Skyra magnet’s positioning of the surface coils is a very quick, easy process – very comfortable for the patients.”⁹

Steven Mendelsohn, MD
Director, Zwanger-Pesiri Radiology
Long Island, NY, USA

Maximized workflow efficiency

Life Design helps make your MRI operations more efficient and economical. The Tim Dockable Table helps you streamline exam preparation, optimizing your department workflow. And the central *syngo* user interface offers a consistent look and feel at every scanner, helping staff perform tasks faster and enhance their productivity.

Minimized lifecycle costs

Siemens scanners are easy and efficient to install and have low space requirements. Low power and cooling requirements contribute to industry-leading energy efficiency – with 22% lower power consumption. Combined with Zero Helium boil-off, this reduces life cycle costs and improves your ecological footprint.

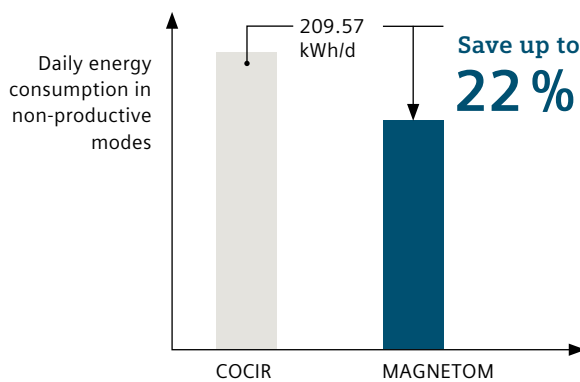
Save up to 22% in energy costs¹

Setting the standard in energy efficiency

Founded in 1959, COCIR is a non-profit organization that represents among others the medical imaging industry. COCIR has identified energy consumption during product lifecycle use phase as the key environmental factor for medical imaging devices. The COCIR SRI methodology provides a common framework to measure and compare the energy consumption of MRI systems. Siemens MRI systems, such as MAGNETOM Skyra, integrate a number of innovative, power-saving, and resource-conserving technologies to reduce energy consumption.



Optimize your total cost of ownership (TCO)





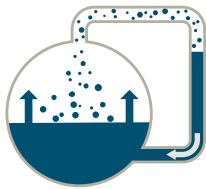
Short installation time

Thanks to its compact system design, MAGNETOM Skyra has a typical installation time of less than 7 working days, helping reduce costs from the very start.



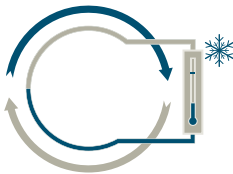
Small footprint

Minimum total space requirement: less than 31m² for magnet, electronics, and console room. The system complies with the standard ceiling height of 240 cm. An integrated water cooling cabinet eliminates the need for dedicated cooling of the entire equipment room.



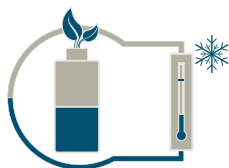
Zero Helium boil-off³

According to the US Geological Survey, the estimated price paid by private buyers for helium has risen by 48% from 4.15 US dollars per cubic meter in 2008. In 1995, it was 1.80 US dollars.⁴ With its Zero Helium boil-off technology, Siemens Healthineers is eliminating one of the fastest rising costs in MRI operations.



Eco-Chiller / Optimized Separator

Lower power consumption due to automatic adaptation to the required cooling demands, e.g., dedicated night and day modes.



GREEN Cooling Option

Chiller energy consumption further reduced by up to 50% with this passive extension module of the Eco-Chiller. Depending on the surrounding temperature, cooling takes place exclusively via the Free Cooling unit (not displayed in figure on the left).



Power-saving technology

Intelligent technology for higher energy efficiency: optimized sequences for less gradient switching, and self-adapting components, that switch off automatically when not needed.

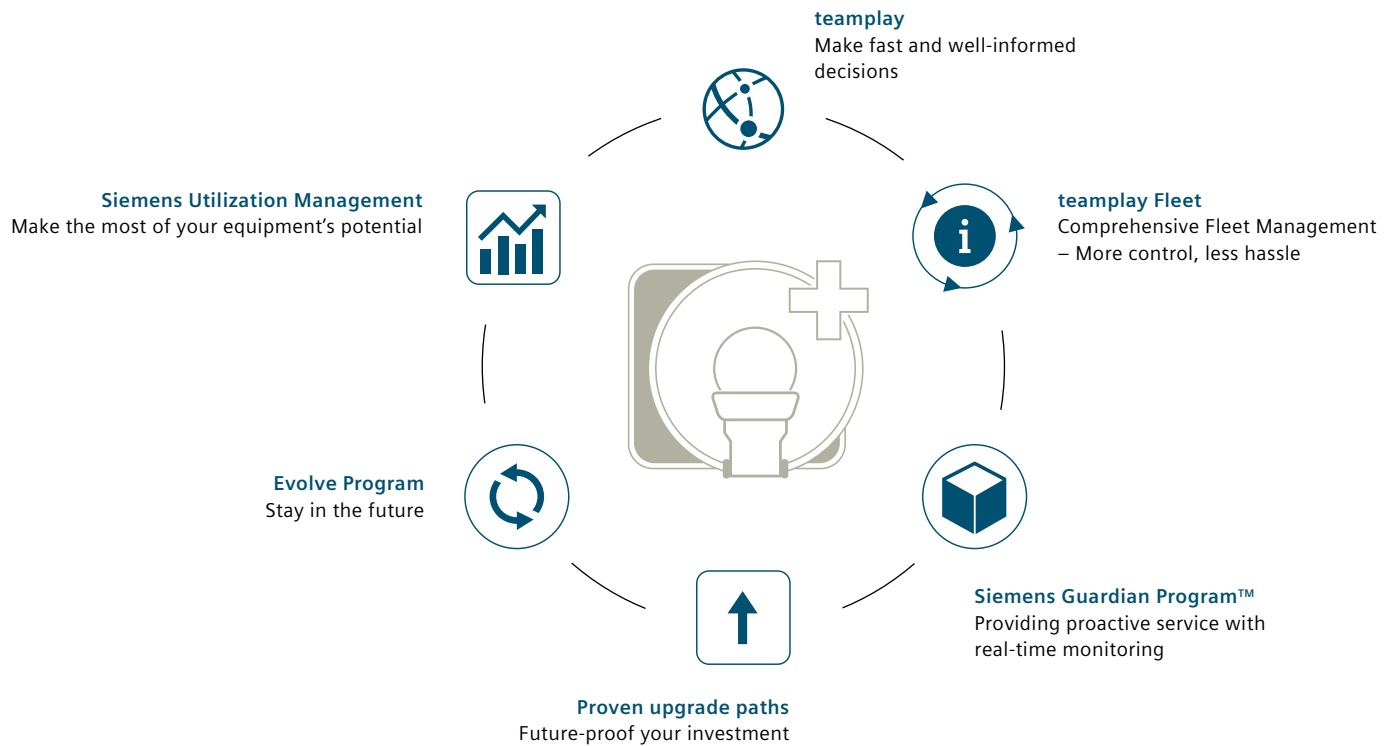


Service and exchange

Siemens' service offerings ensure that you stay at the leading edge of 3T technology throughout the entire MRI lifecycle – from installation, to operation, to upgrades, to ongoing support. Moreover, our globally active communication platforms and communities – such as MAGNETOM World – keep you up to speed on the world of MRI and enable you to share your ideas and experiences with your peers.

Service and exchange

Comprehensive services



Siemens Utilization Management

Make the most of your MRI scanner and achieve maximum transparency. Siemens Utilization Management allows you to monitor KPIs and benchmark your system against other Siemens' MRI machines at any facility or organization under a comparable contract. So you can keep track of your MRI performance, and reap the maximum reward from your scanner.

Siemens Guardian Program™

By continuously monitoring systems for possible deviations from current norms, the Siemens Guardian Program helps maximize system availability, makes it easy to detect and resolve system errors, prevents downtime, and avoids the rescheduling that disrupts patient care.



Proven upgrade paths

With MAGNETOM scanners, taking your MRI system to the next level is simplicity itself, thanks to clearly defined upgrade paths. In fact, Siemens has built an entire organization to help customers truly maximize their system life – and in turn, to increase their return on investment.

teamplay Fleet

More control and less hassle with a personalized control center safeguarding your fleet's productivity. This web-based portal bundles all service-related activities, documents, and reports in one comprehensive online resource available 24/7, whenever it is needed. teamplay Fleet is provided at no charge to all Siemens Healthcare customers.

Evolve Program

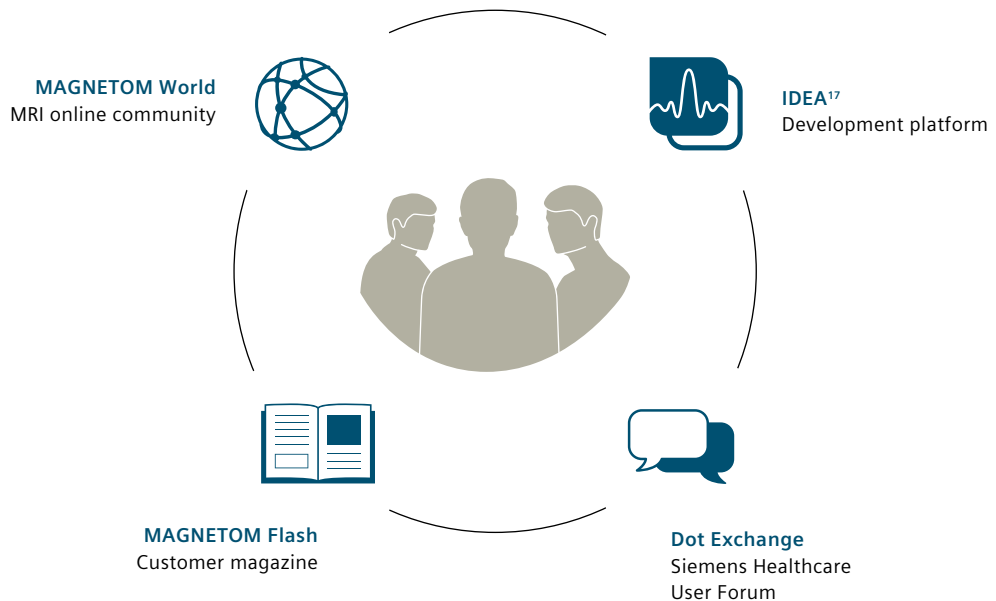
An investment protection program to enable you to cost-effectively keep your imaging system technology current, and extend the life of your equipment. Ensure your imaging system uses the latest software versions, and cutting-edge applications – for more accurate diagnostics and greater speed.

teamplay

teamplay grants instant¹⁶ access to statistics from your imaging device fleet. Its multi-vendor support empowers you to identify improvement potential on all levels of execution. teamplay provides an easy-to-grasp overview of an institution's imaging workflow for enhancing efficiency, competitiveness and quality of care in one intuitive Plug & Play solution.

Service and exchange

Peer-to-peer information



MAGNETOM World

Siemens' global MR community offers peer-to-peer support and information. Radiologists, cardiologists, technologists and physicists have all contributed with publications, presentations, training documents, case studies and more – all freely available to you via this unique network. Plus, the bi-annual MAGNETOM World Summit is the ideal opportunity to share and exchange ideas.

MAGNETOM Flash

MAGNETOM Flash is the MR customer magazine. Published quarterly, it features up-to-date clinical case studies, application tips, as well as technical and product information relevant to you. All content is carefully compiled by experts to meet the needs of today's MRI users in both clinical and research scenarios. In fact, 98.5% of readers report that MAGNETOM Flash is clinically relevant.¹⁸



Visit
MAGNETOM
World

www.siemens.com/magnetom-world

On MAGNETOM Flash: “An excellent and useful combination of technological and clinical articles that both keep one up to date with advances in MRI and provide practical assistance for day to day practice – good and interesting learning material.”⁹

Mark Lourensz, St Vincent’s Hospital
Fitzroy, Victoria, Australia

Dot Exchange

Part of the Siemens Healthcare User Forum, Dot Exchange connects Dot users, enabling them to share their clinical experience of working with the system. By registering on www.siemens.com/dot-exchange, you can upload and discuss protocol files and engage in dialog with peers. Plus, you can access a host of interesting features and articles, making sure you are the first to hear about the latest developments in MRI.

IDEA

IDEA¹⁷ is an open development platform supporting the largest and most active MR research community in the world. It brings users from across the globe together and fosters innovation in the field of MRI. Members collaborate online at www.mr-idea.com.



MAGNETOM Skyra
Technical specifications

Field strength	3 Tesla
Bore size	70 cm Open Bore design
System length*	173 cm
System weight (in operation)*	7.3 tons
Minimum room size*	31 m ²
Maximum number of channels**	204
Number of independent receiver channels that can be used simultaneously in one single scan and in one single FOV, each generating an independent partial image	24, 48, 64, 128
Gradient strength	XQ Gradients (45 mT/m @ 200 T/m/s)
Helium consumption	Zero Helium boil-off technology

* Minimum total space requirement for magnet, electronics, and console room
 ** Channels (coil elements) that can be connected simultaneously



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