

**SIEMENS**

**MAGNETOM**



Leading.  
With  
MAGNETOM.

[www.siemens.com/mri](http://www.siemens.com/mri)

# Magnetic Resonance Imaging

The definitive portfolio for MRI.

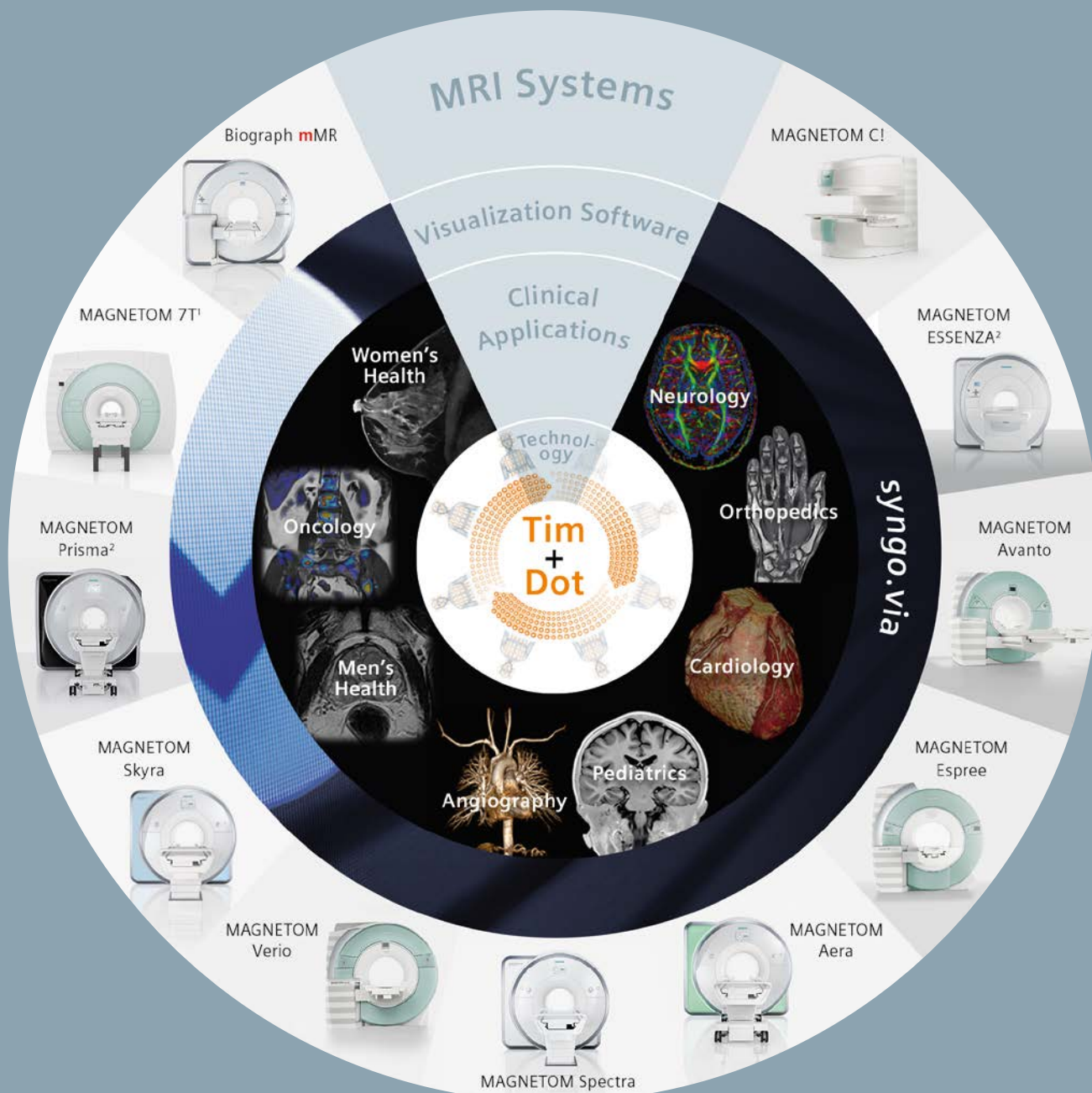
Answers for life.

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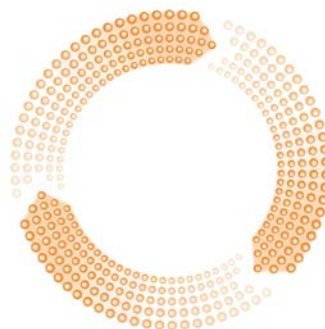
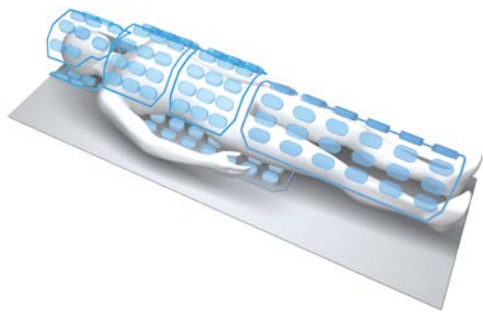
# Leading. With MAGNETOM.

You are an MRI leader.

Whether you are just beginning to work with MRI or you are at the forefront of research. With Siemens MAGNETOM MRI systems, you can be sure to lead. In your clinical field, your research, your business environment – to achieve our joint mission of advancing human health.



The definitive portfolio for MRI.



## Tim sets the standard in MRI.

Tim® is Siemens proven integrated coil technology with over 8,000 installations worldwide. Now, in its 4<sup>th</sup> generation, Tim 4G brings ultra high-density coils combined with the highest channel configurations. Tim 4G – with its all new RF architecture – locates all transmit and receive components at the magnet resulting in an all digital-in/all digital-out architecture.

### Your benefits:

- Exceptional image quality
- Faster acquisition and exam time
- Higher SNR

### Flexibility

- Up to 204 coil elements with up to 128 independent RF channels for higher SNR and speed
- Ultra high-density coil array for an imaging distance up to 205 cm with no coil repositioning
- Light-weight, patient friendly coils allow more flexibility in patient set-up

### Accuracy

- High resolution imaging from head-to-toe with high channel coils
- All digital-in/digital-out DirectRF architecture with transmit and receive components at magnet for true signal purity and stability
- TimTX TrueForm, providing excellent B1 homogeneity at 3T

### Speed

- Easier and quicker set-up with improved Tim 4G DirectConnect and SlideConnect coils
- Tim Dockable Table is mobility done right
- iPAT<sup>2</sup> allowing parallel imaging in two directions for fast data acquisition

## Dot. The next movement in MRI.

Dot® is a new way of scanning in MRI – a better way. Dot scanning uses a suite of customizable engines – allowing the user to personalize exams according to patient needs, build in step-by-step user guidance, and automate MRI exams – either “out of the box” or based on the institution’s standards.

### Your benefits:

- Increased consistency and reproducibility
- Greater ease of use
- Higher productivity

### Personalized

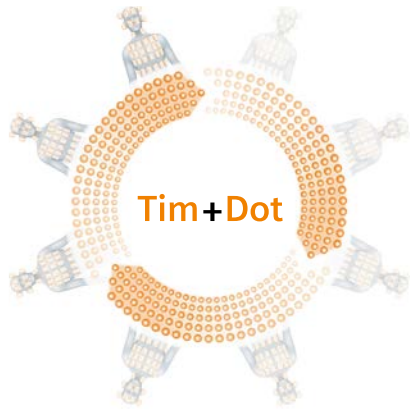
- Uniquely tailored, optimized exam strategies
- Adapt scanning to the patient condition or clinical question
- Customize Dot strategies to your standards of care

### Guided

- Real-time on-board guidance with images and text through even the most complicated exams
- Adapt scanning to your protocols for increased standardization with integrated decision points
- Add your own instructions including image examples for consistent positioning and scanning

### Automated

- Consistent and reproducible scanning with features like AutoAlign, AutoBolus Detection
- Intelligent workflows customizable to your standards enable effortless set-up
- Optimized timing of scanning and breathing



## Tim+Dot

Tim 4G + Dot are the direct response to today's demanding world of healthcare economics.

Tim 4G is Siemens' innovative coil architecture and receive technology that unlocks imaging power like never before. Dot engines help take the complexity out of MRI, at the same time enable consistency and reproducibility.

Together, they redefine productivity – with an increase of up to 50%.

For us Tim technology with iPAT<sup>2</sup> reduced scan times. An exam that took us 30 minutes is now completed in 20 minutes.<sup>4</sup>

*Taken from Case Study (link [http://www.medical.siemens.com/siemens/en\\_US/gg\\_mr\\_FBAs/files/brochures/Tim\\_CaseStudies/Tim\\_CaseStudy\\_Shortest\\_scan\\_times\\_with\\_iPAT.pdf](http://www.medical.siemens.com/siemens/en_US/gg_mr_FBAs/files/brochures/Tim_CaseStudies/Tim_CaseStudy_Shortest_scan_times_with_iPAT.pdf)) which is already a released publication*

*The Children's Hospital, Denver, USA*

Dot is a real game changer improving not just the speed, but the quality of the whole examination, from setup to post-processing and even reporting.<sup>4</sup>

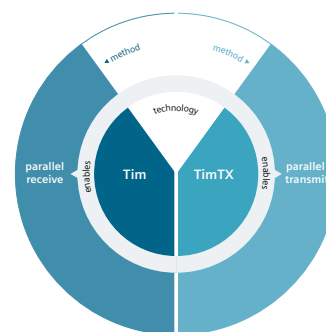
*Johan Dehem, MD, Chief Radiologist, VZW Jan Yperman, Belgium, University Medical Center Mannheim, Germany*

[www.siemens.com/dot](http://www.siemens.com/dot)

## TimTX complements Tim

TimTX is completing Tim by adding transmit power to the parallel imaging intelligence of Tim. In 2007 Siemens introduced TimTX TrueForm as standard B1 shimming solution for better image quality at 3T. With TimTX TrueShape you will now be able to shape your RF pulse freely to achieve a new degree of freedom in MR imaging. Experience outstanding new MRI applications. Starting with syngo ZOOMit, the first zoom function in MRI. This unique parallel transmit application allows zooming in MRI for higher image quality and faster scanning. Leading to better diagnostic confidence overall.

[www.siemens.com/TimTX](http://www.siemens.com/TimTX)



1.5T



## MAGNETOM Aera

Transforming 1.5T economics.

Dot integrated

Tim 4G integrated

Top-of-the-line 1.5T



Up to 64 independent RF channels.  
With MAGNETOM.

Through the groundbreaking combination of Tim® 4G's integrated coil technology and Dot – the next movement in MRI – MAGNETOM Aera will transform 1.5T economics.

As a top-of-the-line 70 cm 1.5T system, MAGNETOM Aera offers a full range of applications and helps you to provide a next level of patient care.

- High patient comfort with 70 cm Open Bore in combination with ultra-short system design (145 cm cover to cover)
- Up to 50% higher productivity with Tim 4G and Dot
- Full range of applications for the clinical routine
- DirectRF – digital in/out for higher signal purity and improved stability
- TrueForm design for optimized homogeneity volumes matching the true form of the human body
- Tim Dockable Table – mobility done right

### Technical information

Field strength	1.5T
Bore size	70 cm Open Bore design
Magnet length	137 cm
System length	145 cm
System weight (in operation)	4.8 tons

Minimum room size	30 m² / 323 sq. ft.
RF	Tim [204x48], [204x64]
Gradient strength	XJ Gradients (33 mT/m @ 125 T/m/s) XQ Gradients (45 mT/m @ 200 T/m/s)



With MAGNETOM Aera, we are confident we have one of the most advanced 1.5T MRI systems available on the market today.

*Prof. Christoph Bremer, MD, Head of the Department of Radiology, St. Franziskus Hospital, Münster, Germany*

Imaging of the feet:  
Musculoskeletal imaging  
at its best – for all joints





## MAGNETOM Espree

1.5T in a unique design.

Advanced Tim technology

Trendsetting in patient comfort

New dimensions in applications

1.5T



Tim



70 cm

CT-like openness.  
With MAGNETOM.

Combining a 70 cm Open Bore design with an ultrashort system length of 125 cm (cover to cover), MAGNETOM Espree is unique in patient access and comfort.

Equipped with state-of-the-art Tim technology, MAGNETOM Espree offers a wide range of clinical applications and allows whole-body examinations up to 205 cm.

- Greater patient access and comfort with 70 cm Open Bore
- Shortest MRI system with only 125 cm system length (cover to cover)
- Increased throughput with Tim
- Attract a wider range of patients
- Maximized patient access and 60% head-out exams
- Maximizing return due to minimized siting requirements and costs

### Technical information

Field strength	1.5T
Bore size	70 cm Open Bore design
Magnet length	120 cm
System length	125 cm
System weight (in operation)	5.1 tons

Minimum room size	27 m <sup>2</sup> / 290 sq. ft.
RF	Tim [32x8], [76x18], [76x32]
Gradient strength	Z-engine (33 mT/m @ 100 T/m/s) DZ-engine (33 mT/m @ 170 T/m/s)



100% of MAGNETOM Espree customers would purchase this system again.

Customers interviewed for the KLAS report 2011, Top 20 Best in KLAS Awards: Medical Equipment & Infrastructure, June 2011. © KLAS Enterprises, LLC. All rights reserved.

Lumbar spine evaluation:  
Highest patient comfort thanks  
to Open Bore design

Unidade de Diagnostico Einstein  
Jardins, Sao Paulo, Brazil

1.5T



## MAGNETOM Espree – Pink

Excellence in MR breast care.

Unprecedented level of patient comfort

Excellent coil technology and a dedicated workplace for efficient breast exams

Comprehensive portfolio of breast applications



CT-like openness.  
With MAGNETOM.

MAGNETOM Espree – Pink offers unmatched patient comfort, unique applications, and an innovative workflow that will push your clinical capabilities to the next level. The dedicated solution for breast MRI combines an Open Bore design with the Sentinelle breast coil for Siemens which offers exceptional breast imaging and biopsy capabilities.

- Greater patient access and comfort with 70 cm Open Bore
- Feet-first and head-first patient positioning
- Excellent access to perform biopsies
- Sentinelle breast coil to comfortably position patients of all sizes
- MultiModality Workplace with syngo BreVis for precise and effective reading and reporting

### Technical information

Field strength	1.5T
Bore size	70 cm Open Bore design
Magnet length	120 cm
System length	125 cm
System weight (in operation)	5.1 tons

Minimum room size	27 m <sup>2</sup> / 290 sq. ft.
RF	Tim [76x18]
Gradient strength	Z-engine (33 mT/m @ 100 T/m/s)



“Patients are always nervous during breast MRI examinations and biopsies. The biggest advantage using MAGNETOM Espree and the Sentinelle system is the wide open access.”

*Jae K. Kim, MD, Tuscon Diagnostic Radiology, Arizona, USA*

Breast MRI: Covering all needs of women's health

*Centre IRM Ville Marie,  
Montreal, Canada*





# MAGNETOM Avanto

The landmark in 1.5T imaging.

- Tim+Dot integrated
- Landmark in technology
- Landmark in applications
- Upgradeable to Tim 4G with 48 RF channels

Proven 1.5T imaging.  
With MAGNETOM.

1.5T



60 cm

MAGNETOM Avanto is the landmark in 1.5T imaging due to Tim technology in combination with a dramatic reduction in acoustic noise, and a comprehensive application range up to 205 cm whole-body imaging.

With the integration of Dot, the power of Tim is multiplied resulting in greater image consistency and diagnostic confidence, greater ease-of-use, and a day that's more productive than ever before.

- Increased throughput with Tim+Dot
- Exceptional magnet homogeneity for excellent fat saturation
- Strong gradients for high resolution and short scan times
- Increased result consistency for faster diagnosis
- Faster training and increased staff versatility
- AudioComfort
- Broad application range
- Easy siting conditions

### Technical information

Field strength	1.5T
Bore size	60 cm
Magnet length	150 cm
System length	160 cm
System weight (in operation)	5.9 tons

Minimum room size	27 m <sup>2</sup> / 290 sq. ft.
RF	Tim [32x8] <sup>3</sup> , [76x18], [76x32]
Gradient strength	Q-engine (33 mT/m @ 125 T/m/s) SQ-engine (45 mT/m @ 200 T/m/s)



“Our experience with the MAGNETOM Avanto has conclusively proven that it not only excels but rather exceeds all expectations – e.g. in terms of image resolution and SNR. Additionally the high gradient linearity and magnet homogeneity generate significant benefits in stereotactic imaging.<sup>4</sup>”

*Edmond A. Knopp, MD, University Hospital NYU, New York, USA*

Liver imaging: Consistent results with superb image quality thanks to Tim

*Centre Régional d'Imagerie Médicale, Amiens, France*

0.35T

## MAGNETOM C!

Small footprint, giant steps.

Confidence in diagnosis

Comfort for patients

Cost-efficiency in MRI



Outstanding open imaging.  
With MAGNETOM.

Work that flows, image quality that convinces, and patient comfort that satisfies: These are just the beginning of the advantages of MAGNETOM C!.

Increased healthcare quality, seamless workflow, and low operating costs all promote a high return on investment.

- Smallest pole diameter (137 cm / 54 inches) for patient comfort
- Sharing the same syngo software platform as all other MAGNETOM systems: high-field applications tailored to mid-field for all clinical fields
- True multichannel imaging for seamlessly imaging up to 100 cm
- No cryogen use and low power consumption to further reduce operating costs
- Outstanding image quality at mid-field

### Technical information

Field strength	0.35T
Bore size	270° accessibility
Pole diameter	137 cm
System length	137 cm (54 inches)
System weight (in operation)	16 tons

Minimum room size	30 m <sup>2</sup> / 325 sq. ft.
RF	13x4
Gradient strength	(24 mT/m @ 55 T/m/s)



“Gradient and RF technology of the MAGNETOM C! enable us to achieve mid-field images with a quality comparable to high-field MR systems.”<sup>4</sup>

Prof. H.-M. Klein, Radiological Centre – Ev. Jung-Stilling Hospital, Siegen, Germany

Shoulder imaging: Excellent imaging capabilities for all field strengths

KLSC Sports Imaging,  
Kuala Lumpur, Malaysia



## MAGNETOM ESSENZA

Established 1.5T performance.

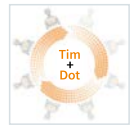
More productivity. With Tim+Dot.

More applications. From head to toe.

More confidence. Through sustainable value.

Up to 60 cases per day.<sup>4</sup>  
With MAGNETOM.

1.5T



60 cm

Rebuilt with the experience of more than 1000 customers in the field, the new MAGNETOM ESSENZA enables you to be even more productive, more versatile, and more confident in your daily MRI practice.

Equipped with Tim+Dot and fitted with the latest Siemens MR application platform, performing 1.5T MRI has never been easier and more accessible.

- Higher patient comfort, due to light-weight coils, ultra-short magnet design and faster exams
- Increased throughput, consistency, and ease of use – with Dot
- Greater clinical scope with standard and advanced clinical applications
- Diagnostic confidence through remarkably high 1.5T image quality
- Excellent life-cycle value through low installation and operating costs

### Technical information

Field strength	1.5T
Bore size	60 cm
Magnet length	131 cm
System length	147 cm
System weight (in operation)	4.3 tons

Minimum room size	30 m <sup>2</sup> / 323 sq. ft.
RF	Tim [25x8], [46x16]
Gradient strength	V-engine (30 mT/m @ 100 T/m/s)

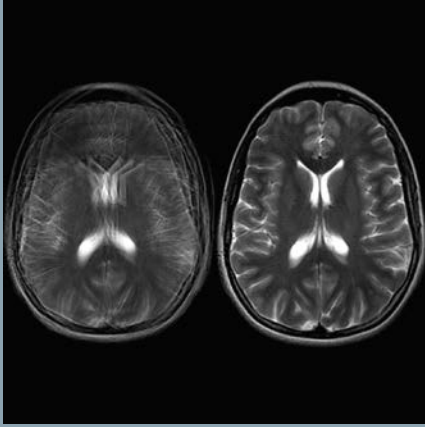


Because there's no need to reposition the coils, we can achieve 50–60 patients every day.<sup>4</sup>

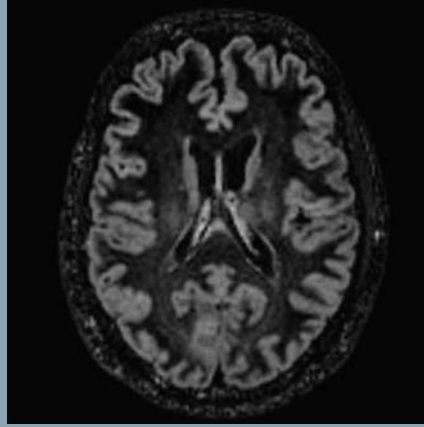
*Dr. Li Song Bai, Director of MRI department, 1st Hospital of CMU, Shenyang, China*

*Hospital Santa Virginia,  
Sao Paulo, Brazil*

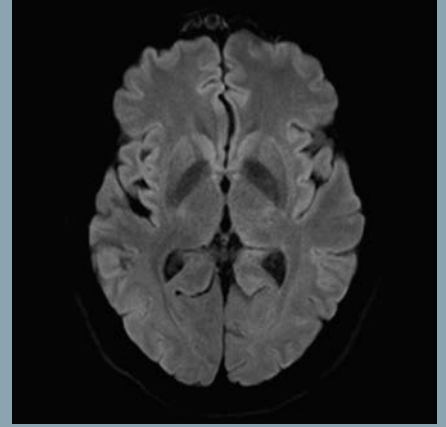
# Leading applications



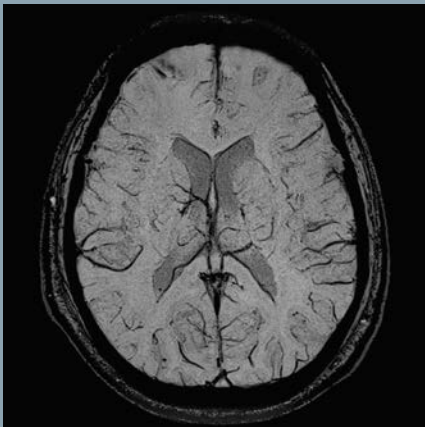
*syngo* BLADE



*syngo* SPACE DIR



*syngo* RESOLVE



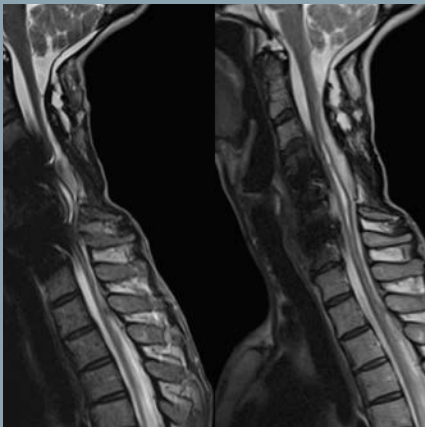
*syngo* SWI



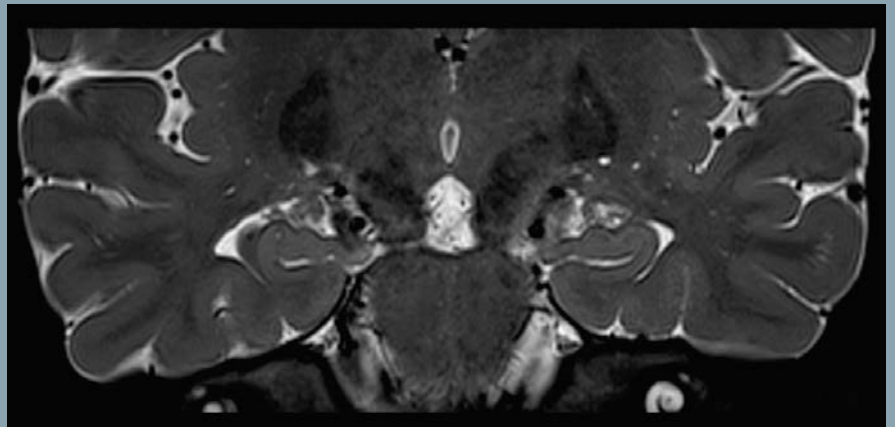
*syngo* ASL 3D



*syngo* DTI

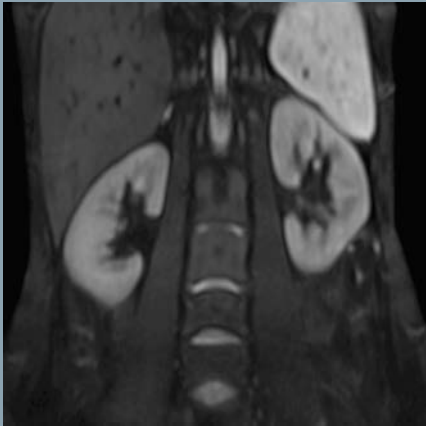


*syngo* WARP

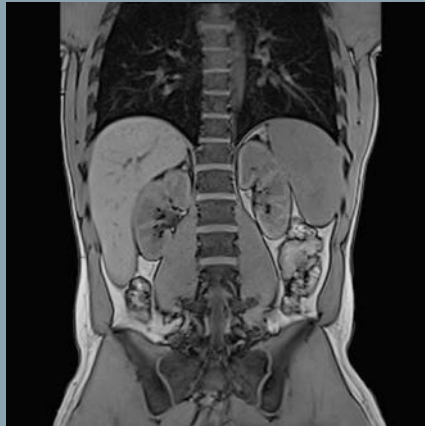


*syngo* ZOOMit

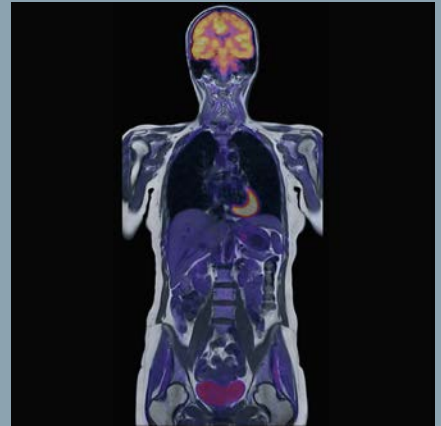




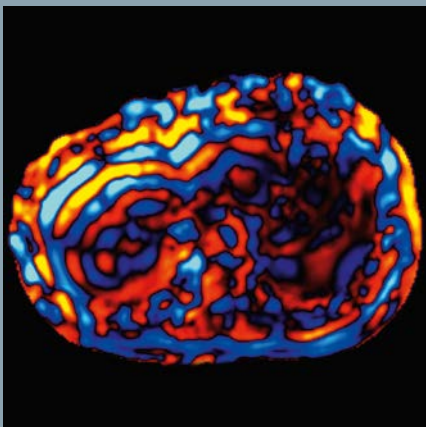
syngo REVEAL



CAIPIRINHA



syngo Image Fusion



MR Elastography



iPAT<sup>2</sup>



syngo MapIt



syngo NATIVE



syngo TWIST

3T



## MAGNETOM Spectra

It's the key to 3T.

It's quality. Unchallenged.

It's usability. Unlimited.

It's patient care. Uncompromised.



Access to high-quality 3T.  
With MAGNETOM.

A system that offers unprecedented access to 3 Tesla magnetic resonance imaging?

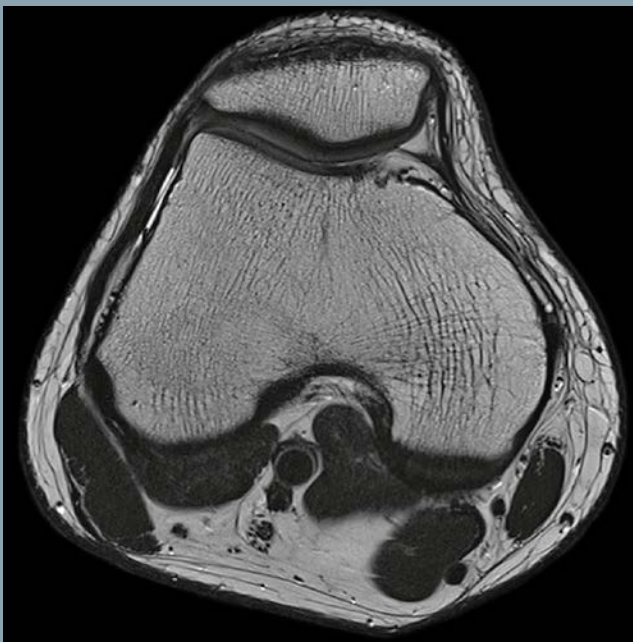
The answer is MAGNETOM Spectra. It's the key to a new scope of image and healthcare quality for patients. It's the key to a new level of usability and diagnostic confidence for physicians. And, it's the key to ensure premium patient care at an attractive total cost of ownership for radiologists. If access is what you are looking for, then MAGNETOM Spectra is your key to 3T.

- Outstanding image quality with Tim 4G DirectRF technology
- Best-in-class 3T image homogeneity with TimTX TrueForm
- Excellent usability and image consistency with Dot
- Comfortable and easy patient setup with SlideConnect & DirectConnect
- Low operating cost through low power consumption and zero helium boil-off
- Fast break even due to optimum TCO

### Technical information

Field strength	3T
Bore size	60 cm
Magnet length	163 cm
System length	173 cm
System weight (in operation)	7.35 tons

Minimum room size	31 m <sup>2</sup> / 334 sq. ft.
RF	Tim [96x24], Tim [120x24]
Gradient strength	XG-Gradients (33 mT/m @ 125 mT/m/s)



“The patients have a right for getting an examination in high quality.”

*Dr. Thomas Maier, Sportklinik Bad Nauheim, Frankfurt, Germany*

Bringing the advantages of 3T to the clinical routine: Highest resolution and shortest scan times, for example in musculoskeletal imaging of the knee

*Gemeinschaftspraxis  
Radiologie & Nuklearmedizin,  
Frankfurt/Bad Nauheim, Germany*





## MAGNETOM Verio

Proven 3T clinical imaging.

Tim+Dot integrated

Proven openness

Proven performer

3T



70 cm

TrueForm body imaging at 3T.  
With MAGNETOM.

As a proven innovator, Siemens is bringing 3T field strength, 70 cm Open Bore, and Tim+Dot together in one powerful system – MAGNETOM Verio.

Invest in this MRI system that helps to make you a leader, with the versatility to provide a wide range of clinical applications today and well into the future.

- Increased throughput with Tim+Dot
- Short, light, and easy to install 3T system
- Greater patient access and comfort with 70 cm Open Bore
- TrueForm design for optimized homogeneity volumes matching the true form of the human body
- Increased result consistency for faster diagnosis

### Technical information

Field strength	3T
Bore size	70 cm Open Bore design
Magnet length	163 cm
System length	173 cm
System weight (in operation)	8.2 tons

Minimum room size	33 m <sup>2</sup> / 355 sq. ft.
RF	Tim [102x18], [102x32]
Gradient strength	VQ-engine (45 mT/m @ 200 T/m/s)



“What I really like about the Verio is that it does the hard things really well, for example claustrophobic patients, obese patients, large field of view imaging, spinal MRA, superb articular cartilage imaging, high resolution pelvic imaging and neurovascular imaging.”

*Dr. Richard O'Sullivan, Director MRI at Symbion Imaging, Melbourne, Australia*

Liver scan with motion correction:  
Abdominal imaging at 3 Tesla with highest  
quality enabled by TrueForm RF design

*Bremen Mitte, Bremen, Germany*

3T



## MAGNETOM Skyra

Transforming 3T productivity.

Dot integrated

Tim 4G integrated

Top-of-the-line 70 cm 3T



Up to 128 independent RF channels.  
With MAGNETOM.

Through the groundbreaking combination of Tim 4G's integrated coil technology and Dot – the next movement in MRI – MAGNETOM Skyra will transform 3T productivity.

As a top-of-the-line 70 cm 3T system, MAGNETOM Skyra offers a full range of applications and technologies to address different customer needs ranging from the clinical routine to research.

- High patient comfort with 70 cm Open Bore and short system design
- Up to 50% higher productivity with Tim 4G and Dot
- Top-of-the-line applications and technologies for clinical routine and research
- DirectRF – digital in/out for higher signal purity and improved stability
- TrueForm design for optimized homogeneity volumes matching the true form of the body
- Tim Dockable Table – mobility done right

### Technical information

Field strength	3T
Bore size	70 cm Open Bore design
Magnet length	163 cm
System length	173 cm
System weight (in operation)	7.3 tons

Minimum room size	31 m <sup>2</sup> / 334 sq. ft.
RF	Tim [204x48], [204x64], [204x128]
Gradient strength	XQ Gradients (45 mT/m @ 200 T/m/s)



MAGNETOM Skyra is extremely robust, has the best signal-to-noise ratio and the lowest drop out rate.<sup>4</sup>

*Professor Henrik Michaely, MD, Section Chief Vascular and Abdominal Radiology, Institute for Clinical Radiology and Nuclear Medicine, University Medical Center Mannheim, Germany*

Bowel imaging with dynamic MRI:  
High performance with short scan times at large Fields of View

*University Medical Center,  
Mannheim, Germany*



80/200 simultaneously.  
With MAGNETOM.

## MAGNETOM Prisma

The 3T PowerPack for exploration.

The power to outperform.

The power to explore.

The power to succeed.

3T



The new MAGNETOM Prisma is the 3T PowerPack for exploration that offers you a unique 3T platform to help you tackle the most demanding clinical and research challenges of today and the future.

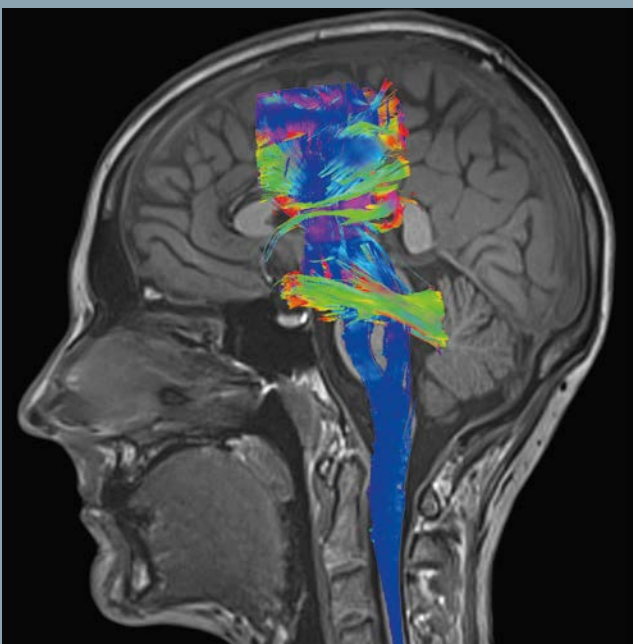
Its breakthrough design delivers maximum performance under prolonged high-strain conditions. Exciting new applications delivering higher anatomical detail, opening new possibilities for imaging functional processes and understanding diseases.

- Unmatched 3T magnet
- Highest gradient amplitude and performance with XR 80/200
- Parallel transmit technology (TimTX TrueShape and syngo ZOOMit standard)
- Tim 4G integrated coil technology
- Pioneering research applications

### Technical information

Field strength	3T
Bore size	60 cm
Magnet length	198 cm
System length	213 cm
System weight (in operation)	13,0 tons

Minimum room size	33 m <sup>2</sup> / 355 sq. ft.
RF	Tim [204x64] [204x128]
Gradient strength	XR (80 mT/m @ 200 T/m/s)



“What I think is unique about MAGNETOM Prisma is that we bring everything of what we have together. We put a system together that nobody else can match. And every customer will say Wow!”

*Daniel Fischer, Inbound Product Manager at Siemens Magnetic Resonance, Erlangen*

Zoomed EPI of the C-Spine at  
pristine image quality

3T



Tim



60 cm

## Biograph mMR

Simultaneous MR and PET in clinical use

High precision by true simultaneity

Seamless exams by thorough integration

Wider views by realizing potential



Simultaneous MR and PET in clinical use.  
With Biograph mMR.

Biograph mMR has arrived in clinical routine.

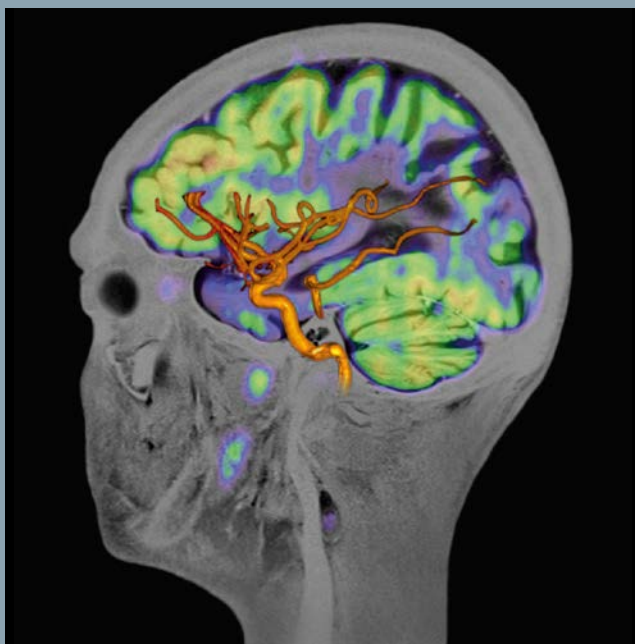
As the first and only system that is capable of doing simultaneous acquisition of MR and PET, Biograph mMR is well on the way to revolutionize disease detection and therapy management.

- Simultaneous whole-body acquisition of MR and PET
- State-of-the-art 3T MRI and cutting-edge molecular imaging fully integrated
- Precise alignment of MR and PET in space and time
- MR-based motion freeze of PET images
- Shorter exams for more patient comfort
- Zero dose from MRI, reduced overall dose

### Technical information

Field strength	3T
Bore size	60 cm
Magnet length	163 cm
System length (cover to cover)	199 cm
System weight (in operation)	8.7 tons
Minimum room size	33 m <sup>2</sup>
RF	Tim [102x18], [102x32]
Gradient strength	MQ Gradients (45 mT/m @ 200 T/m/s)

PET Crystal material	LSO
PET Crystal element dimension	4x4x20 mm <sup>3</sup>
PET sensitivity	13.2 cps/kBq
PET Transverse Spatial resolution (NEMA: FWHM @ 1 cm)	4.4 mm



“If we see the next 20 years as the rise of individualized medicine and molecular medicine, I think Biograph mMR is the first diagnostic tool of that next generation.”

Bruce R. Rosen, Professor of Radiology, Massachusetts General Hospital (MGH), Boston, MA, USA

molecular MR: Combining anatomy, function, and metabolism at a single point in time

University Hospital,  
Tübingen, Germany



## MAGNETOM 7T.

See things differently.

Set the trends. With 7T

7T is the technology driver

Fostering research & collaboration

7T



Tim



60 cm

Ultra-deep insights at 0.2 mm resolution.  
With MAGNETOM.

MAGNETOM 7T<sup>1</sup> provides unique opportunities in life sciences and technology.

Working at the forefront of research, you need a powerful tool that supports your vision and helps translate ideas into measurable facts and efficient solutions. With its ultra-high resolution, enhanced fMRI, and spectroscopy capacity, MAGNETOM 7T is intended to let you visualize anatomical detail and functional information as never before – supporting neuroscience studies and clinical research with ultra-deep insights. With MAGNETOM 7T, Siemens introduces a robust research instrument that is

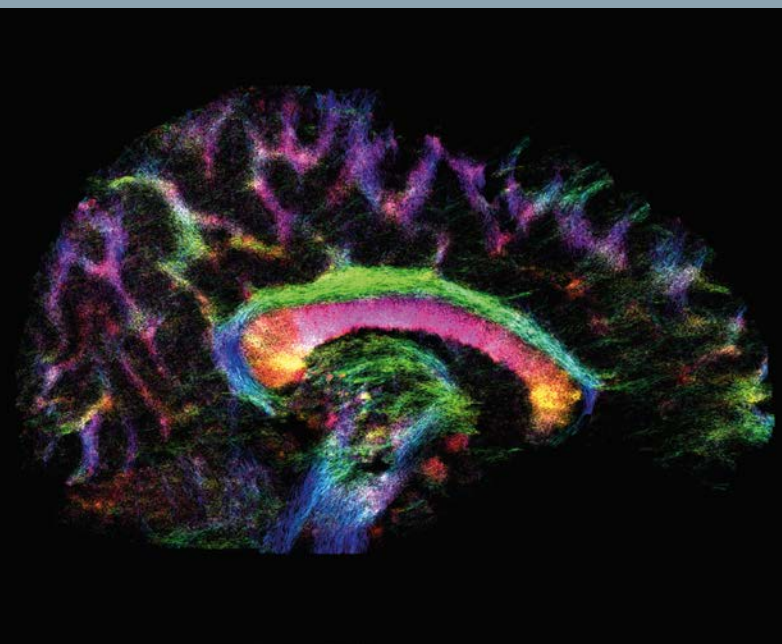
not only powerful in its visualization capacity, but open for further development. Enabling you to explore in depth – and reach high goals.

- Anatomical detail at the submillimeter scale
- Enhanced contrast mechanisms only possible at UHF MRI
- Outstanding spectroscopy performance
- Ultra-high resolution functional imaging (fMRI)
- Multinuclear whole body MRI
- High-channel TX Array development
- Open research platform and strong collaboration

### Technical information

Field strength	7T
Bore size	60 cm
Magnet length	270 cm
System length	317,5 cm
System weight (in operation)	38.6 tons / 85098 lb

Minimum room size	40 m <sup>2</sup> / 430 sq. ft.
RF	7,5 kW / 8x1 kW
Gradient strength	SC 72 Gradients (max. 70 mT/m @ 200 T/m/s)



“When we were in the position to order a 7 Tesla system, Siemens was the logical choice.”

*Peter Jeppard, PhD, Professor of Neuroimaging, University of Oxford, Oxford, UK*

Fine structures within the thalamus

Tractography of 1 mm, syngo RESOLVE, displayed as Track Density Image (TDI) 1: 200 micrometers super-resolution. Short TE, high SNR.

*Max Planck Institute, Leipzig, Germany*



**syngo.via –**

**Get the full picture.  
Efficient. Flexible. Intelligent.**

**Findings, not searching.  
With MAGNETOM.**



Especially in MRI your imaging system provides rich diagnostic information with every exam. However, the time for transforming it into high-quality diagnoses is short. With *syngo.via*<sup>5</sup>, our client-server based imaging software, you can process, read and share your clinical images faster, easier, and anywhere<sup>6</sup>.

It starts at the scanner. With hardware from MAGNETOM, making everything possible. Continues with technology like Tim+Dot, providing consistent image quality, speed and ease of use in MRI. And culminates in software like *syngo.via*, helping you to turn information into diagnostic value.

Start your engines for routine and advanced reading in oncology, neurology, cardiology, angiography and womens' health. Find what needs to be found. With our leading applications:

*syngo*.MR General Engine

*syngo*.MR Cardio Engine

*syngo*.MR Spectro Engine

*syngo*.MR Onco Engine

*syngo*.MR Neuro Perfusion Engine

*syngo*.MR Tissue4D<sup>2</sup>

*syngo*.MR Vascular Analysis<sup>2</sup>

*syngo*.MR Brevis<sup>2</sup>

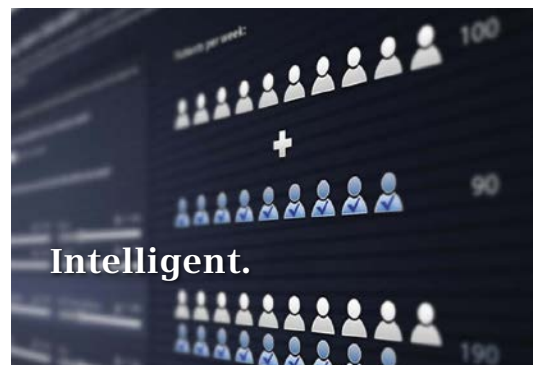
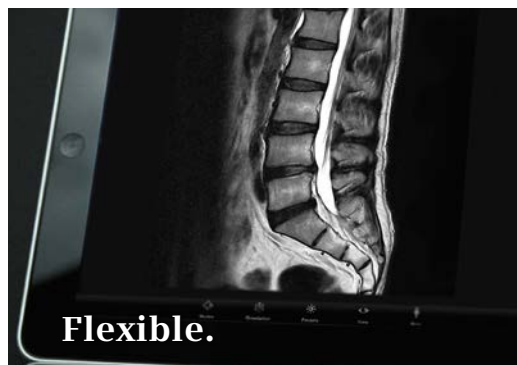
*syngo*.mMR General<sup>2</sup>

**More information:**

[www.siemens.com/syngovia-mr](http://www.siemens.com/syngovia-mr)

*“syngo.via definitely improves the consistency in the reading and delivery of the results of the patient.”*<sup>4</sup>

*Dr. Jean-Paul Abecassis, Uroradiologist, Imagerie Paris Centre, France*





## Customer Care – Dedicated to your Success



### Customer Services

Siemens' solutions help you maintain uptime, improve performance, and optimize workflow for sustainable healthcare, while ensuring that your staff is trained to deliver the highest quality results possible. You can depend on us as a trusted partner.

#### **MORE Clinical Expertise**

Enhanced expertise, greater efficiency, and high productivity thanks to education, consulting services, and personalized training. Our dedicated application specialists will help you to effectively use your systems to ensure a high level of satisfaction for your business and your patients.

[www.siemens.com/uptime-services](http://www.siemens.com/uptime-services)

#### **syngo Evolve MR**

Up-to-date, powerful hardware and software are key factors for enhancing the performance and diagnostic quality of your systems. syngo Evolve helps you to keep pace with rapidly developing technological advances throughout the complete lifecycle of your system.

[www.siemens.com/syngo-evolve](http://www.siemens.com/syngo-evolve)

#### **Customized Service Agreements**

Different needs call for individual service agreements. That is why we have structured our technical services in modules and additional options. By selecting the best combination of modules and options, we develop an individualized Performance Plan that ensures an optimal service solution for your situation.

[www.siemens.com/performance-plans](http://www.siemens.com/performance-plans)

### Redefine your MRI system

Redefine your MRI system with options and upgrades. Keep pace with innovations and keep your system state of the art during its entire product lifecycle. Get your personalized recommendation and discover new coils and clinical software applications. Try them out with a software trial license and experience how you can redefine your system to meet your needs.

[www.siemens.com/redefine](http://www.siemens.com/redefine)

### Refurbished Systems

The Siemens Proven Excellence Program offers refurbished medical equipment straight from the original manufacturer. Proven Excellence means these systems meet Siemens stringent quality assurance standards, which achieve "like new" quality.

[www.siemens.com/refurbished](http://www.siemens.com/refurbished)

### MAGNETOM World

Our online platform with clinical information, case reports, protocols, application tips, and talks by international experts is growing every day. Stay informed at:

[www.siemens.com/magnetom-world](http://www.siemens.com/magnetom-world)

“When there is need for state of the art clinical information, I enjoy reading MAGNETOM Flash. Rarely will you find a magazine by your vendor, which provides more information on new technical and clinical developments of your MRI system by the MAGNETOM family.”

Matthias Dietzel, MD, Institute of Diagnostic and Interventional Radiology, Friedrich Schiller University Jena, Germany



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# Leading. With MAGNETOM.

## Leading in efficiency

You are aiming for more accurate diagnoses, to accommodate more patients in less time. Your investments need to pay off quickly and operating costs need to be kept down. To help overcome these challenges and raise quality and productivity in healthcare, you can benefit from the most efficient and user-friendly MRI solutions available, without making any compromise in delivering premium patient care.

## Leading in excellence

In your commitment to delivering top-of-the-line MRI services, you realize the need for differentiation in today's healthcare market. You set the trends in clinical MRI, helping you provide more accurate diagnoses and fight the most threatening diseases. Working with the most advanced MRI technology and applications help you differentiate your practice and lead in providing high-quality healthcare.

“Our goal is reproducible, high quality images. From any type of patient, in all of our scanners, from all of our technicians. That's our goal.”

*Dr. med. Serhan Attila, Istanbul, Turkey*

“We work with Siemens because of leading technology, good workflows, and perfect collaboration on the technical side.”

*Professor Henrik Michaely, MD,  
Section Chief Vascular and Abdominal  
Radiology, Institute for Clinical Radiology and  
Nuclear Medicine, University Medical Center  
Mannheim, Germany*

To us, leadership means giving the best every day. Saying “why not” instead of “yes but.” And then doing it. And then doing it again. In every hospital or practice or lab or university.

**You are an MRI leader.**

“Leading in MRI is crucial in modern imaging. It is an essential technique we're using now, and it's where the progress is made everyday. It's not in general radiology ... it is in MRI so that's why it's crucial for us to be a leader in MRI.”

*Dr. Jean-Paul Abecassis, Uroradiologist,  
Imagerie Paris Centre, Paris, France*

## Leading in research

In your quest for new insights, you need freedom to explore. No matter the research field you are leading in – powerful high-end MRI solutions support you. You are able to bring disruptive changes to help answer fundamental questions of mankind. Answers that help improve diagnostics and help fight the most threatening diseases. Brilliant imaging results, cutting-edge technology, strong collaboration, and open architecture help you drive innovation.

## Leading in patient care

You are dedicated to providing the best care for every patient. As the world continues to grow and life expectancy rises, you are encountered with a more diverse range of challenging diagnostic questions. In your pursuit of delivering the highest quality care, you utilize advanced MRI technology designed with the patient in mind, enabling more access to quality healthcare.

“We have collaborations with people from MR physics and engineering who allow us to improve the sequences that we are using.”<sup>4</sup>

*Prof. John-Dylan Haynes, Charité  
Universitätsmedizin, Berlin, Germany*

“If you can put patient care and technology together, you have a winning solution. And Siemens does that.”

*Zahi A. Fayad, PhD, Department of  
Radiology and Cardiology, Imaging Science  
Laboratories, Mount Sinai School of Medicine,  
New York, NY, USA*

MAGNETOM

Not for distribution in USA.

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Please find fitting accessories:  
[www.siemens.com/medical-accessories](http://www.siemens.com/medical-accessories)

<sup>1</sup> The product is still under development and not commercially available yet. Its future availability cannot be ensured. This research system is not cleared, approved or licensed in any jurisdiction for patient examinations. This research system is not labelled according to applicable medical device law and therefore may only be used for volunteer or patient examinations in the context of clinical studies according to applicable law.

<sup>2</sup> The product is still under development and not yet commercially available. Its future availability cannot be ensured.

<sup>3</sup> Dot available for 18-channel and 32-channel configuration

<sup>4</sup> The statements by Siemens' customers described herein are based on results that were achieved in the customer's unique setting. Since there is no "typical" hospital and many variables exist (e.g., hospital size, case mix, level of IT adoption) there can be no guarantee that other customers will achieve the same results.

<sup>5</sup> *syngo.via* can be used as a stand-alone device or together with a variety of *syngo.via*-based software options, which are medical devices in their own rights.

<sup>6</sup> Prerequisites include: Internet connection to clinical network, DICOM compliance, meeting of minimum hardware requirements, and adherence to local data security regulations.

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