



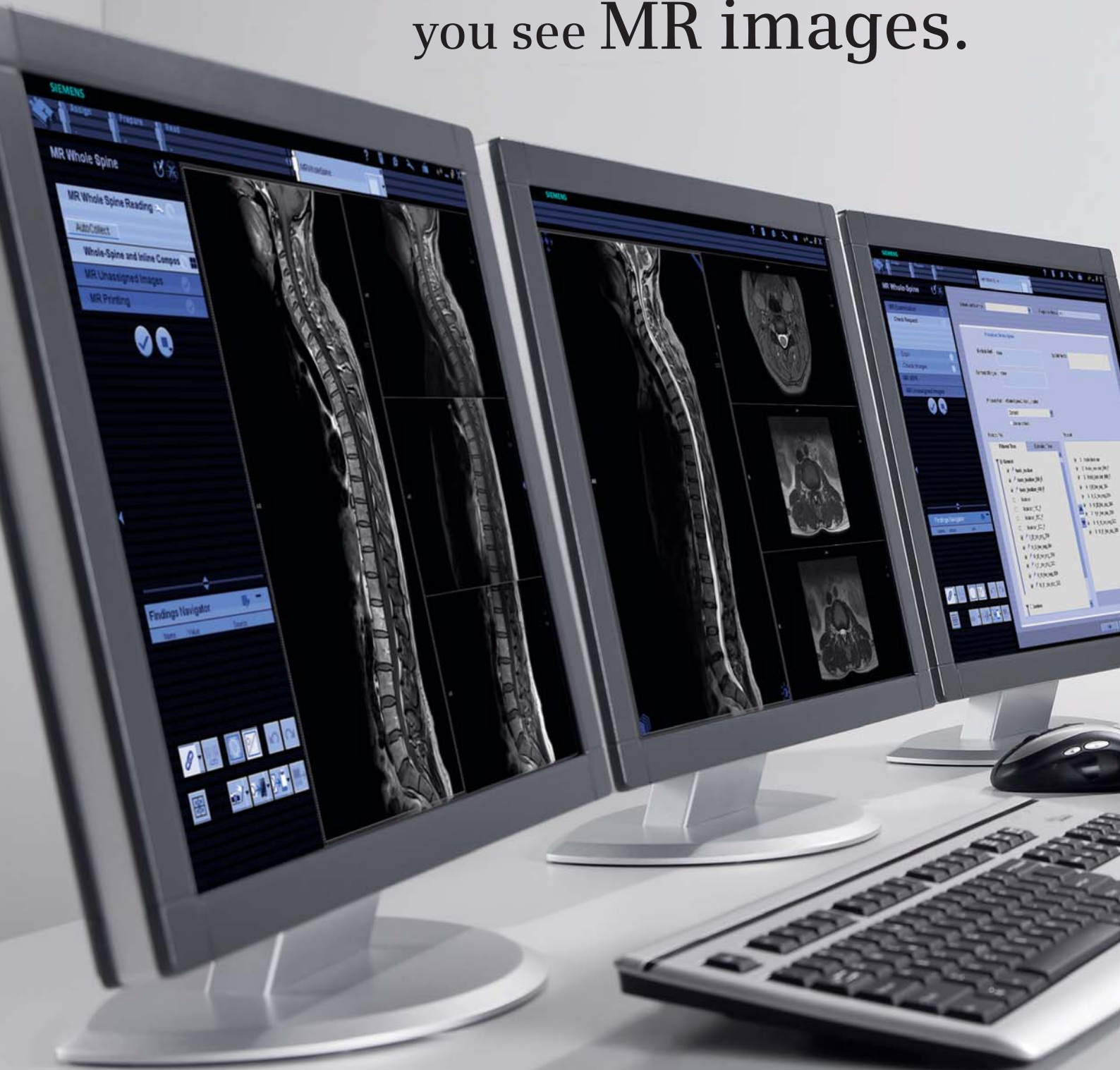
*syngo.via.* Images, my way.

Magnetic Resonance

Answers for life.

**SIEMENS**

Forever changing the way  
you see MR images.

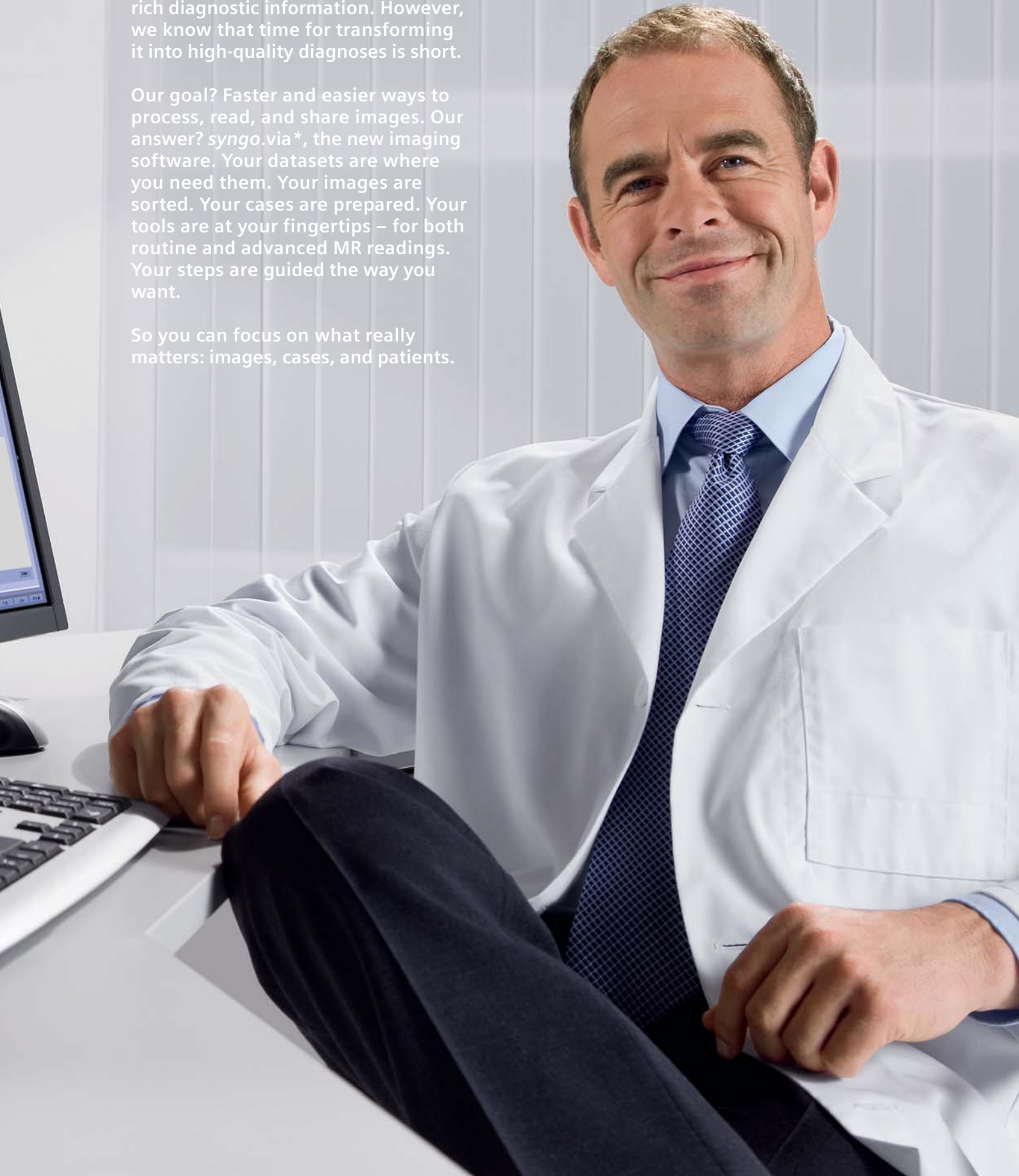


\* *syngo.via* can be used as a standalone device or together with a variety of *syngo.via*-based software options which are medical devices in their own rights.

Every day, your MRI systems provide rich diagnostic information. However, we know that time for transforming it into high-quality diagnoses is short.

Our goal? Faster and easier ways to process, read, and share images. Our answer? *syngo.via*\*, the new imaging software. Your datasets are where you need them. Your images are sorted. Your cases are prepared. Your tools are at your fingertips – for both routine and advanced MR readings. Your steps are guided the way you want.

So you can focus on what really matters: images, cases, and patients.



*syngo.via* is the new imaging software,  
creating an exciting experience in efficiency  
and ease of use – anywhere\*\*.

## My cases – ready

It is my way to efficiently get my cases ready. *syngo.via* automatically preselects the information and workflow, and provides insightful guidance on disease-specific requirements.

## My places – networked

Efficiency is a matter of how my places are networked. *syngo.via* uniquely integrates imaging modalities and IT, making it possible to access and share information anywhere\*\*, with my clinical partners, my way.

## My needs – anticipated

My needs are anticipated for years to come based on a complementary service offering that helps me keep up with innovations, get integrated services for my imaging and IT equipment, and rely on predictable costs.



*syngo.via.*  
Images, my way.

\*\* Prerequisite include: Internet connection to clinical network, DICOM compliance, meeting of minimum hardware requirements and adherence to local data security regulations.

# My routine cases – ready.

Whatever you need to read – your everyday or your challenging cases – find the right tools, right at hand. All in one place.

## The right workflow for any case

*syngo.via* offers you a wide range of optimized workflows for everyday use. With the pre-defined steps and layouts, you can always take the efficient way to process and read images. The Case Navigator guides you through every step of your MR cases. Or, you may customize workflows and layouts or create new ones – making it easy to follow your standards of care.

## Data at hand – ready to read

*syngo.via* automatically loads and sorts the images – pre-processed according to disease-specific requirements. You can

immediately start processing and reading. Combined with the step-by-step guidance, relevant aspects are taken into account. What's more, the complete workflow is customizable to your needs.

## Images – the way you want them

*syngo.via* offers the 2D and 3D capabilities you want. You can switch to 3D views of any contrast with just one click – without changing the software or task card. Easily drag and drop images from other modalities or add images from previous MR scans.



**MR Brain.** All images including pre-/post-contrast are arranged automatically.



**MR Spine.** Easily synchronize all series.

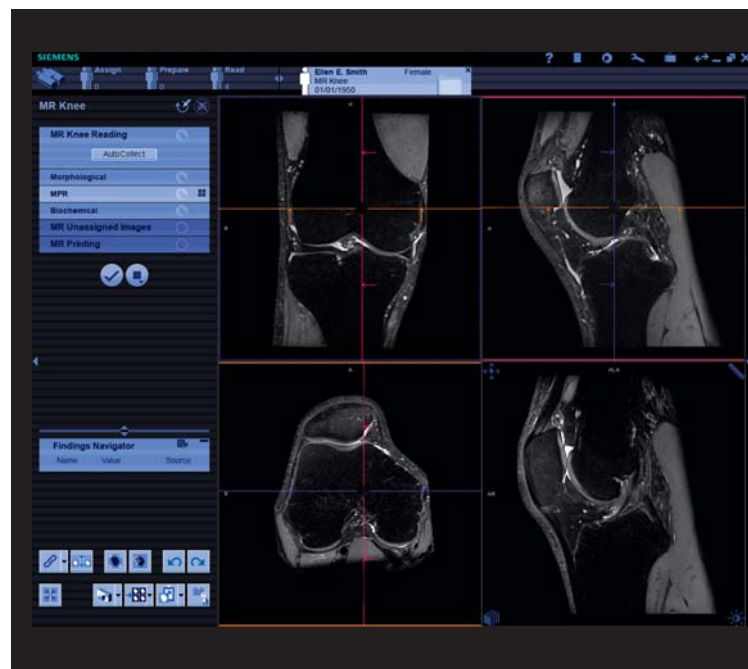
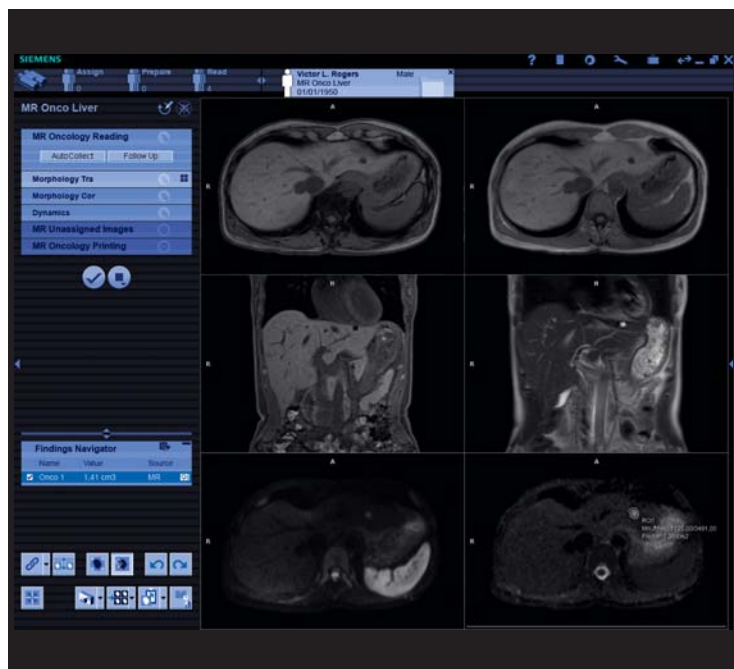
**MR Spine.**  
Pre-configured,  
standardized,  
easy to read –  
which can be  
easily adjusted  
to your needs.

### The tool you need

All applications at hand. Find frequently used functions like synchronized scrolling and zooming displayed next to the image – for easy navigation. And explore new tools like 3D Reference Point for fast localization of the same point in all different series – no matter which orientation and contrast.

### Findings, not searching

You can calculate a distance, a Region of interest (ROI), or mark a suspicious lesion with a single click. *syngo.via* automatically tracks all findings and lists them in the Findings Navigator. One click is all you need to navigate to a finding – from anywhere in the case.



**MR Liver.** Your findings – automatically tracked and listed in the Findings Navigator.

**MR Knee.** Integrated 3D MPR reading, no limitations to 2D only.



MR Prostate. Reading and processing of functional and morphological images at the same time. Unique handling of findings.



MR Onco Brain. Dedicated workflows and layouts for oncological questions.



MR Onco Multi-Region. Automatically sorted from head to toe, from soft tissues to bones.

# My MR oncology cases – ready.

*syngo.via* helps to make oncology diagnosis fast, intuitive, and more reproducible – even when handling large amounts of images from different modalities. Its high degree of automation and advanced ergonomics help simplify the process and allow you to focus on the essentials.

Master even complex cases effortlessly

*syngo.via* automatically loads and sorts all images – pre-processed according to disease-specific requirements. Structured from head to toe, from soft tissue to bone contrast. This unique ability helps you save time and maintain high diagnostic quality even when reading complex MR cases.

Workflow guidance – makes cases seem simple

Multi-region cancer exams provide thousands of images. With *syngo.via*, you only take a few intuitive steps to read the case, even when comparing follow-up exams. *syngo.via* offers dedicated layouts for oncology so you can concentrate on the task at hand.

Lesion segmentation – you mark the lesion, *syngo.via* the boundaries

All you need to do is to identify the lesions. *syngo.via* suggests boundaries and computes volumes – no need to spend time on 3D manual segmentations, if the

user likes to there is no need to spend time on 3D manual segmentation.

Oncology reports that match referrers' needs

With *syngo.via*, you can provide tailored service for your clinician. Integrate findings from imaging and biopsies with just one click. Add therapy recommendations at any time. Creating a dedicated prostate report\* is as simple as that – helping urologists see all relevant facts at a glance.

See the whole view – with all the images you need

*syngo.via* allows you to combine images from multiple modalities – whenever needed. Easily create side-by-side displays of MR and ultrasound images for prostate cases, or fuse MR and CT images to read brain and other cases.

\* The disease-specific report created in *syngo.via* is not the final diagnostic report. The final diagnostic report is generated and signed off within the RIS. Archiving of diagnostic reports is the responsibility of the RIS.



MR Onco Multi-Region. Unique guidance along the complete workflow.



MR Onco Multi-Region. Dedicated Onco Reports allow the Siemens' best representation of your diagnosis.



# My MR neurology cases – ready.

*syngo.via* supports fast, network-wide access to patient data for immediate viewing and interactive evaluation. From any\*\* PC in the network, you can use the applications you need when you need them – establishing a whole new level of speed and flexibility in acute neurology.

## Fast evaluation – appropriate action

*syngo.via* supports a new level of speed in neurology. With features such as automated sorting of data, fast calculation of color maps, and 3D processing support, you can quickly navigate through complex neurologic cases. These features, along with an incredibly fast workflow, ensure you are empowered with the tools necessary to make fast decisions and initiate action – regardless of where you are.

\* Prerequisite include: Internet connection to clinical network, DICOM compliance, meeting of minimum hardware requirements and adherence to local data security regulations.



syngo.MR Neuro Perfusion. Immediate access to time-critical cases (e.g. stroke) for fast evaluation or processing from anywhere in the hospital.

syngo.MR Neuro Perfusion in action. Fast access to the tools that enable confident evaluations anywhere.

### High-end applications – anywhere

Now, implement the power of advanced MR applications in more places. *syngo.via* offers client server based evaluation tools such as perfusion evaluation. It is the Siemens unique imaging software that combines routine and advanced tools – everywhere in your network.

### See the future – today

Be prepared for the future of MR – with advanced capabilities such as *syngo* Fusion. Fuse images of all modalities, use color images, graphics and much more that can support your diagnostic performance.



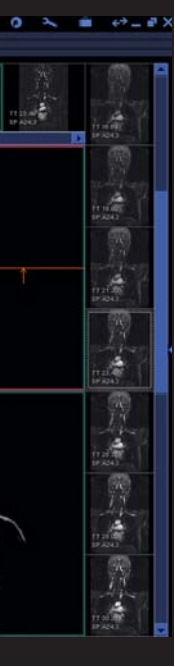
syngo Image Fusion. Enables you to view and “fuse” information from multiple modalities. In this example, PET data is subtly fused into a T2 Flair axial MR image (lower right).



MR TimCT Angio (left), MR TWIST Angio (right). Large and four-dimensional data are displayed in dedicated, easy to navigate layouts.



Cardiac Combined view. Up to four different image types are displayed side by side, linked in time and space.



# My MR cardio-vascular cases – ready.

Handling of large datasets and sorting images – *syngo.via* does it for you. When managing images of different cardiac views or phases and searching for useful information from other acquisitions, you will find all you need is already linked to the series you are currently viewing.

## All information in one place – every detail in the combined view

You can see all – functional imaging, time resolved, and tissue characterization – combined in the same view, specially developed for cardiac viewing. When scrolling up and down within a series, you will see linked data from the other acquisitions displayed at the same anatomical position – making it easy to compare all available data and detect even minor abnormalities.

## Layouts prepared according to image type and view

See images presented by type or anatomical view. *syngo.via* automatically recognizes and sorts them into pre-defined layouts, preventing mix-up of images by order or location. Get a quick overview of even the tough cases. And read them just like routine ones.

## Comprehensive analysis of functional parameters

Easily review automatically created short and long axis contours with *syngo.via*'s guided approach. The software calculates all relevant parameters for cardiac functional analysis and displays them in standardized graphs and tables – from ejection fraction (EF) to regional wall thickening, among others.

## Managing angio images – from large field of view, down to the smallest detail

With large field of view angiograms becoming more and more popular, *syngo.via* eases managing of complex exams, including whole-body scans. It automatically recognizes the acquisition method for *syngo* TimCT, multi-station, or *syngo* TWIST and matches the layout. MPR and 3D MIP views are displayed next to each other. To get a large zoomed-in view of any diagnostic area or point in time, just point to it in the gallery segments.



With *syngo.via*, my places are networked – making modalities and IT become one within the institution and beyond.

*syngo.via*. Images, my way.



Findings Navigator. Convincing demo of your findings.

## My MR places – networked.

*syngo.via* is your agent for productivity throughout your radiology workflow. No other solution supports and integrates all MR tasks in a comparable way – from planning and scanning to result sharing.

### Tailored Engine Concept: *syngo.via* Engines and Dot Engines go hand-in-hand

The Engine concept integrates the scanning and reading processes into one holistic workflow and enables you to maximize your scanner and application investment. Combining Siemens innovative imaging technologies with *syngo.via* software applications creates even greater clinical and workflow benefits.

Engines offer a comprehensive set of processing and reading tools, especially optimized for the Dot Engines of your MAGNETOM scanner.

The Dot Engines help to improve the performance of your MAGNETOM scanners and offer patient personalization, user unique guidance, and exam automation. They allow you to experience less need for clarifications while increasing throughput, minimizing recalls, and enhancing quality of care.

The Dot Engines together with *syngo.via* enables you to get the most out of your investment – by transforming your day and increasing your productivity significantly.



Direct Protocol Transfer. Easy protocol management – anywhere.

### Enhanced productivity at the scanner workplace

Dot Engines at the scanner and *syngo.via* will help to transform the technologist workplace of today. Both offer unique guidance for planning, scanning, and processing. With one device you manage the scanner and the *syngo.via* user interface – both based on the proven *syngo* UI. With *syngo.via* next to the scanner UI, technologists can handle two patients side-by-side without screen overlays. The outcome? Higher throughput, more reliable results, and reduced costs.

### Direct Protocol Transfer

*syngo.via* redefines protocol management, providing remote protocol planning and automated selection of the right protocols at the scanner. You always get what you need and save time for clarifications – while minimizing re-scans. And you can easily manage and distribute all protocols across your scanners – with just one tool, from wherever you want.

### Direct Image Transfer

With *syngo.via*, images are quickly available throughout the institution. This enables fast feedback right after a series has been completed – without any extra tool or log-in.

### Seamless workstation integration

*syngo.via* handles images from any MR system\*\*. With MAGNETOM scanners, the integration is excellent. *syngo.via* also integrates smoothly with your existing *syngo* MultiModality Workplace (MMWP). You can remotely open the MMWP out of *syngo.via* with just a single click and use its full functionality – without even being there. The results will smoothly be integrated into *syngo.via*.

*syngo.via* addresses my needs for ongoing business – and helps to enable a continuous return on my investment.

*syngo.via*. Images, my way.



## My needs – anticipated.

*syngo.via* service provides you with peace of mind. You can be confident that you are on the leading edge of technology, and that your systems and workflow are running smoothly.

### Continued innovations keep you on the leading edge

With our dedicated *syngo.via* service agreement, your core functionality and clinical applications are always state-of-the-art. We continuously provide you with managed remote updates for software enhancements. These will be delivered automatically, via our secure remote infrastructure, without unplanned workflow interruptions. This means that you are able to expand your clinical spectrum with the latest applications, when needed.

### Integrated services for comprehensive support

With our service agreement, you receive support for your workflow, not just for a single step. Our remote maintenance and repair services ensure quick response and repair times for better staff planning and patient scheduling. Our service team is available for you up to 24/7. During the Principal Coverage Period, native language support is available for most major languages. Furthermore, you will have a primary contact person who has in-depth knowledge of your facility. In addition, our application support and modular training offering mirror your needs, schedule, and workflow.



### Confident financial and department planning with predictable life-cycle costs

Our comprehensive service agreement and the flexible licensing model are key to planning security. Software maintenance and support services are an integral part of the *syngo.via* service agreement, which makes service costs predictable. In addition, you can adapt your service agreement to meet your unique needs by adding optional services.

Our concurrent user model for *syngo.via* is highly flexible. Simply choose the number of licenses that meet your needs, not the number of connected hardware. Should your requirements change, you can always expand the number of licenses or add new clinical applications.

### Foreseeable Total Cost of Ownership

Another big plus on the business perspective: foreseeable Total Cost of Ownership. Because software maintenance and support services are an integral part of your *syngo.via* service agreement, service costs are predictable and clearly calculable. In combination with the flexible licensing model, this makes precise budget planning easier for you.



# Starting off a new experience.

*syngo.via* helps to change the way of reading MR images – from routine cases to the most challenging ones.

## My routine cases – ready

- Automated Case Preparation
- 2D and 3D integrated
- Fast and easy findings navigation
- Easy customization of workflows

## My MR oncology cases – ready\*\*\*

- Synchronized dedicated layouts for oncological questions
- Automatically sorted from soft tissue to bone contrast
- Automated 3D lesion segmentation
- Dedicated oncology findings and reports

## My MR neurology cases – ready\*\*\*

- Fast calculation of color maps and 3D processing support
- Local AIF and perfusion-diffusion-mismatch evaluation seamlessly integrated
- Structured and standardized stroke report

## My MR cardio-vascular cases – ready\*\*\*

- All relevant information in one combined, anatomically linked view
- Automatic segmentation and editing with MR Cardiac 4D Ventricular Function
- Navigation through time and space with MR TimCT Angio and MR Angio TWIST

\*\*\*The following list of workflows and all displayed features are syngo.via-based software options for MR which are medical devices on their own rights. The information about these products is being provided for planning purposes. The products are pending the necessary regulatory clearances in some countries (in particular in the U.S.), and thus are not yet available for sales in all countries.



*syngo.via. Images, my way.*

#### My places – networked

- Unique workflow support from planning to result sharing
- Tailored Engine Concept for superb clinical outcomes
- Seamless integration of MAGNETOM scanners, *syngo.via* and *syngo* MultiModality Workplace

#### My needs – anticipated

- State-of-the-art platform and clinical applications
- Support for entire workflow, not just for a single step
- Predictable life-cycle costs
- Flexible licensing model



## Local Contact Information

### In the USA

Siemens Medical Solutions USA, Inc.  
51 Valley Stream Parkway  
Malvern, PA 19355  
Phone: +1 888-826-9702  
Phone: +1 610-448-4500  
Fax: +1 610-448-2554

### In China

Siemens Medical Park, Shanghai  
278, Zhouzhu Road  
SIMZ, Nanhui District  
Shanghai, 201318,  
P.R.China  
Phone: +86-21-38895000  
Fax: +86-10-28895001

### In Japan

Siemens-Asahi  
Medical Technologies Ltd.  
Takanawa Park Tower 14F  
20-14, Higashi-Gotanda 3-chome  
Shinagawa-ku  
Tokyo 141-8644  
Phone: +81 3 5423 8411

### In Asia

Siemens Pte Ltd  
Healthcare Sector  
Regional Headquarters  
The Siemens Center  
60 MacPherson Road  
Singapore 348615  
Phone: +65 6490-6000  
Fax: +65 6490-6001

## Global Business Unit

Siemens AG  
Medical Solutions  
Magnetic Resonance  
Henkestr. 127  
91052 Erlangen  
Germany  
Phone: +49 9131 84-0

Courtesy of Prof. F. A. Fellner, AKH, Linz, Austria

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The information in this document contains general technical descriptions of specifications and options as well as standard and optional features which do not always have to be present in individual cases.

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## Global Siemens Headquarters

Siemens AG  
Wittelsbacherplatz 2  
80333 Muenchen  
Germany

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

## Global Siemens Healthcare Headquarters

Siemens AG  
Healthcare Sector  
Henkestr. 127  
91052 Erlangen  
Germany  
Phone: +49 9131 84-0  
[www.siemens.com/healthcare](http://www.siemens.com/healthcare)

## Legal Manufacturer

Siemens AG  
Wittelsbacherplatz 2  
DE-80333 Muenchen  
Germany

Siemens Mindit Magnetic  
Resonance Ltd. (SMMR)  
Siemens MRI Center, Gaoxin C. Ave.,  
2nd, Hi-Tech Industrial Park  
Shenzhen 518057  
P.R. China  
Phone: +86 755-26525421  
Fax: +86 755-26549253