MR 5300

MR systems

Transform MR productivity. Quickly. Easily. Confidently.

Our vision

For more than 130 years, we have been creating meaningful innovations to improve people's lives and make the world more sustainable.

We are inspired to continually advance the state of precision diagnosis with customer- and patient-centric solutions that deliver clear care pathways and predicable outcomes.

In MR, our mission is to achieve a fast, fully automated, and personalized exam for every patient, while acting responsibly towards our planet and society.

With AI-driven smart connected imaging, optimized workflows, and integrated clinical solutions, we improve your MR department's productivity, enhance patient and staff experience, and deliver high quality diagnostic outcomes.

Welcome MR 5300, our breakthrough innovation in 1.5T imaging that transforms MR productivity. Quickly. Easily. Confidently.

Transform MR productivity. Quickly. Easily. Confidently.

What are you looking for in an MR imaging system?

A way to ramp up productivity and meet the rising demand for imaging a growing population of clinically challenging patients? A system that makes it fast and easy to deliver exceptional quality images? And generate a steady stream of physician referrals? Ongoing support to help you control MR imaging costs, both now and as the future unfolds?

Philips MR 5300 delivers on all counts.

This innovative magnetic resonance imaging system is powered by Philips exclusive BlueSeal magnet for helium-free operations. And it incorporates a wealth of AI[1]-driven technologies to simplify and automate the most complex clinical and operational tasks. So you can focus on what matters the most: your patients.

Content

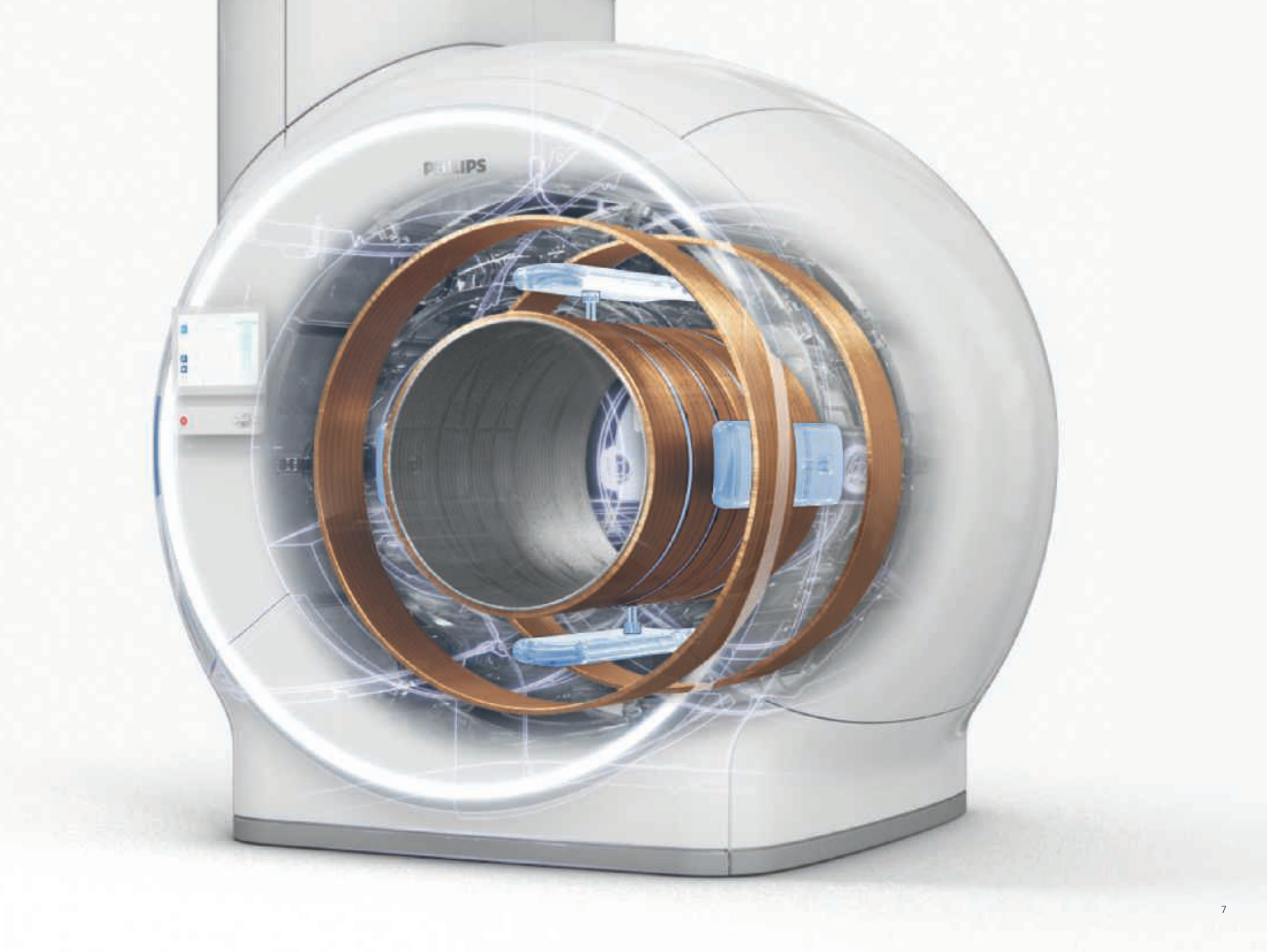
Philips transformed MR operations with the first helium-free operating 1.5T system and proprietary BlueSeal magnet technology. It not only eliminated the need for liquid helium, it changed the way clinicians think about MR imaging.

Now the MR 5300 takes helium-free MR operations to the next level – with breakthroughs designed to deliver automated patient-centric workflow, ultra-fast exams and high quality diagnostic imaging.

Make the smart choice – Philips MR 5300.

Helium-free MR operations

Philips BlueSeal magnet safeguards the small amount of liquid helium needed for cooling inside the bore. There's no helium loss, no refills, and no unexpected costs. Your MR department is free to fly.


PHILIPS

Automated patient centric workflow

- <1 min patient set-up for routine exams
- 30% faster change over time for your operator[4]
- 75% lighter MR 5300 coils[3]

Ultra-fast exams

- <5 min for routine exams
- Up to 65% faster exams[3]
- Whole body exams in <20 min

High quality diagnostic imaging

- Consistent quality and standardized results
- First Time Right Imaging with motion robust and free breathing techniques
- Excel with advanced clinical capabilities

Protect and enhance your MR investment

- Prevent issues before they occur*
- Keep health information secure*
- Simplify lifecycle management*
- Predictable cashflow*

* find out more about this on page 45

Automated patient centric workflow

Smart Workflow dramatically reduces the number of steps needed to complete an MR exam – with guided patient set-up in under a minute, touchless patient sensing, and single-click initiation of routine exams. Combined with our lightest MR 5300 coils, this helps cut patient change-over time up to 30%[4] to keep your MR department on schedule. The result? Shorter exams and a better MR experience for your staff and patients.

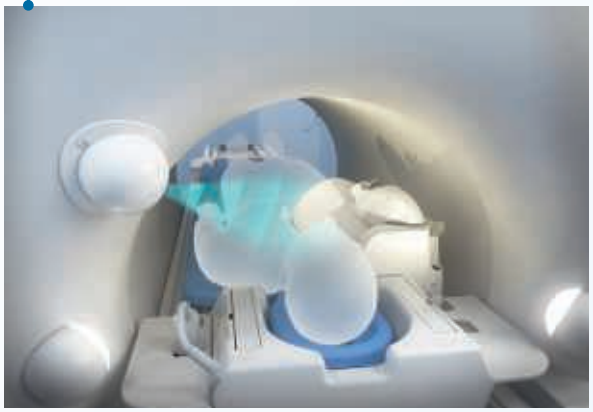
“The entire workflow is smooth: Patient positioning and setup; launching the scan as soon as we leave the exam room; the intuitive touchscreen on the gantry; Touchless patient sensing... All of these things are much better than on our old system.”

Laura Barlow, RTMR
MRI Technologist
Supervisor at the University of British Columbia

Smart Workflow **in the exam room**

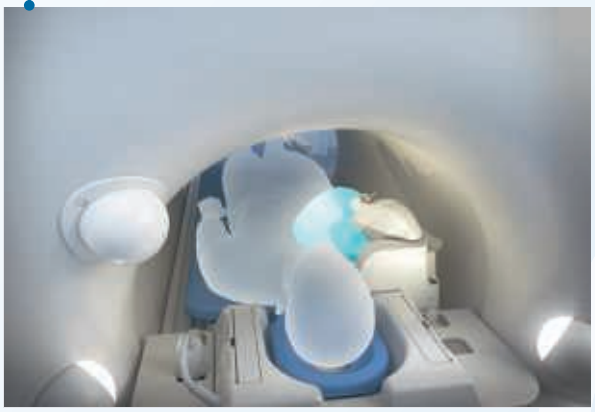
Guided exam set-up
Coaching and visual guidance are provided at the front of the magnet façade

Auto patient centering
Region of interest is automatically placed in the iso-center of the magnet



Touchless respiratory-triggering

Patient's breathing is detected without any operator interaction



Auto coil element selection

Optimal elements are selected automatically based on the anatomy planning

In-room exam start

Exam start can be initiated with a single touch of at the patient's side

* According to the definition of AI from the EU High-Level Expert Group.

Reduce change-over time by up to 30% with MR 5300 coils

Lighten your staff's workload, ramp up productivity, and deliver a more comfortable patient experience with superlight MR 5300 coils and connectors. They weigh up to 75% less than conventional anterior coils and can be used alone or in combination to scan a wide range of anatomies – from adult to pediatric.

Combined with Smart Workflow, MR 5300 coils make it possible to quickly connect and prepare patients for imaging – helping to shorten set-up time for routine exams up to 30%[4]. At the same time, MR 5300 coils deliver exceptional quality MR images and high patient satisfaction.

"As a user, I am very pleased with the light weight of the MR 5300 coils and the connectors."

Dayan Jackson Dudleythurai, MR Radiographer at Aleris-Hamlet Hospital, Aarhus, Denmark.


PHILIPS

ComfortPlus Mattress. No clutter, no skin contact.

Managing coil cables is no longer a challenge thanks to the MR 5300's ComfortPlus Mattress Partner. U-shaped groves run along the side, creating a continuous channel that separates coil cables from the patient's skin. MR 5300 coils work together with the ComfortPlus Mattress Partner to support a better patient experience[8].

> ***“We don’t have to manually direct the patient to breathing and not breathing. We can go ahead and let the machine do the work of the breathing instructions while we continue our planning of the exam.”***

Carlos Avila, RT
Technologist at Miami Cardiac & Vascular Institute

Smart Workflow **in the control room**

Confidence for MR Conditional implants

Step-by-step guidance to enter the condition values as specified by the implant manufacturer

Automated planning, scanning and processing

Fully automated geometry planning, coil element selection and execution of complete MR exams

Up to 3 times faster imaging[1]

Breakthrough acceleration technique delivering image quality and speed without compromise

Automated patient coaching

Patients are guided via announcements of scan duration, table movements and breath hold instructions

Plan your day in advance

Dashboard to plan examinations before patient arrival, allowing you to stay on schedule

1 Compared to SENSE imaging.

* According to the definition of AI from the EU High-Level Expert Group.

MR 5300 delivers an experience unlike any other

From the moment a patient enters the scanner, through to the completion of the exam, In-bore Connect helps put them at ease – with reassuring voice guidance, immersive visuals, dynamic lighting, soothing sounds, clear instructions on breath hold, and active feedback on scan progress.

When combined with MR 5300's Smart Workflow, superlight MR 5300 coils, Compressed SENSE imaging, ComfortPlus Mattress, and ComforTone for noise reduction, in-bore Connect helps to deliver MR patient experience unlike any other[6].

"Our patients are very amazed at the pleasant scanning experience MR 5300 can offer. If our patients are happy, we are happy as well."

Dayan Jackson Dudleythurai, MR Radiographer at Aleris-Hamlet Hospital, Aarhus, Denmark.

The facts speak for themselves:

- **80%** fewer patients needing sedation thanks to greater comfort, noise reduction, and faster exams[7]

- **96%** of all patients indicated the ComfortPlus Mattress was comfortable[8]

- **90%** of those in severe discomfort found it easy to lie still on ComfortPlus Mattress[8]

- **80%** noise reduction with ComforTone – similar image quality and contrast in the same time slot for all routine scans (brain, spine, MSK)[9]

Departmental workflow in the control room

MR Workspace is the key to help alleviate technologists' workload so they can focus beyond just the monitor and on what really matters: the patient. Designed with deep knowledge of day-to-day MR operations, MR Workspace supports efficiency and staff satisfaction in the control room through intelligence, guidance and ease of use. Technologists can prepare exams before patients arrive and aim to achieve consistent quality regardless of experience, by using Protocol Assistant, an AI1-driven solution that learns your protocol preferences and suggests the most appropriate ones based on clinical indication.

Advanced visualization includes step-by-step guidance so technologists can perform advanced visualization to obtain more2 diagnostic information. Thanks to dual screen set-up technologists never lose sight of their current patient, even while parallel tasking. This allows to finish post-processing without toggling between screens and without delaying the next patient.

The intuitive interface, large display of clinical images and essential parameter reveal contribute to outstanding ease-of-use. In addition, MR Workspace helps to keep schedules on track and makes parallel tasking easy so technologists can focus on the current patient.

1 According to the definition of AI from the EU High-Level Expert Group.
2 The addition of step-by-step guidance and automation of routine and complex post-processing applications can now be performed by the technologist on the console, saved via bookmark functionality, and handed off to the radiologist. which reduces time to results.

With MR workspace we aim to support you to:

- Increase schedule efficiency
- Deliver consistent image quality
- Improve staff experience
- Reduce training time
- Provide faster time to results

Know what is coming your way every day

- Full visibility and control over daily schedule
- Examination preparation before patient arrival
- Alerts on patient conditions and schedule changes

Count on image quality. Every, single time

- Guided and automated workflow
- AI[1] Protocol Assistant suggests the most used protocol
- Real-time quality control

1 According to the definition of AI from the EU High-Level Expert Group.
2 Compared to R5 software.

Give your staff what they need to do the job right

- 80% of examination planning is fully automated
- 70% of the display is dedicated to presenting clinical images in crisp detail
- Harmonized user experience with IntelliSpace Portal Advanced Visualization

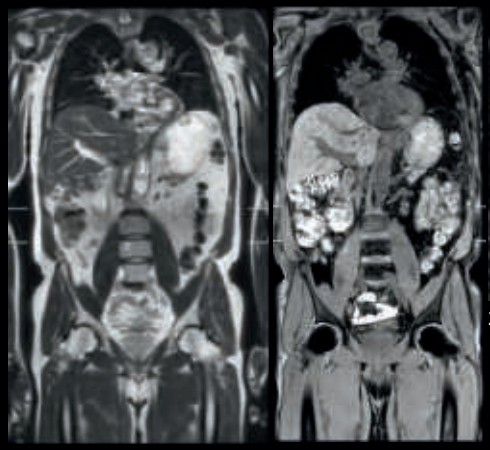
Fast forward from learning to doing

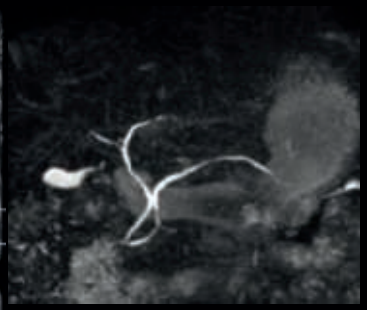
- Integrated AI[1] assistance, task guidance, and automation
- Step by step coaching towards AV analysis
- 50% reduction in on-screen parameters

Be known for fast results

- Results sent to PACS in 30% less time[2]
- Automated AV segmentation, calculation, and map generation
- Comprehensive set of integrated high-end and routine AV applications

Fast exams and consistent high-quality imaging with MR 5300 coils

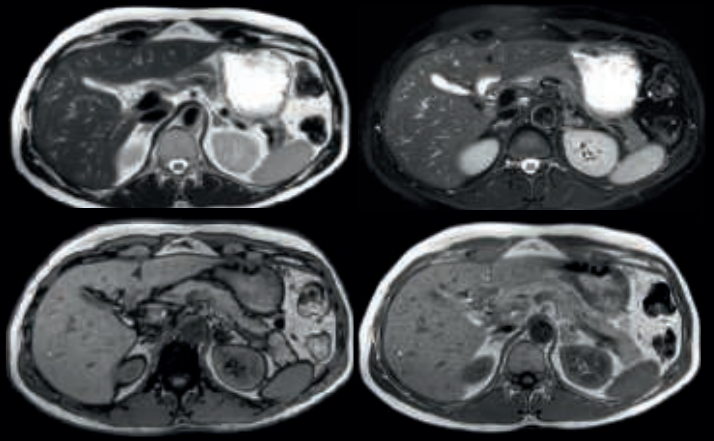




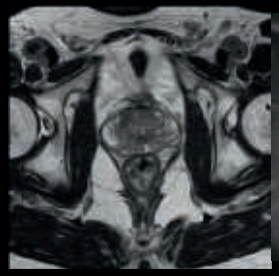
3D MRCHP, 15 sec

Complete Torso in 2 stations

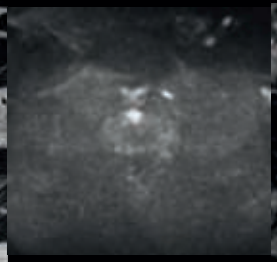
T2 Cor	1.4x1.5x6	2:30 min
mDixon Cor	1.0x1.0x1	0:26 min



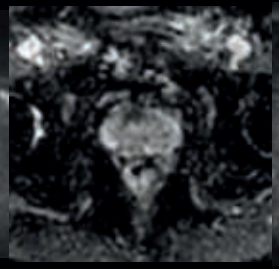
T2 MVXD Tra	0.9x0.9x5	1 :11 min
T2 FS Tra	0.9x0.9x5	1 :12 min
Dual FFE Tra	1.6x1.8x5	0 :40 min



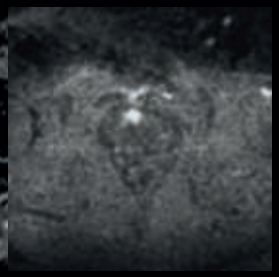
T2 Tra PIRADS
0.4x0.7x3
4 :50 min



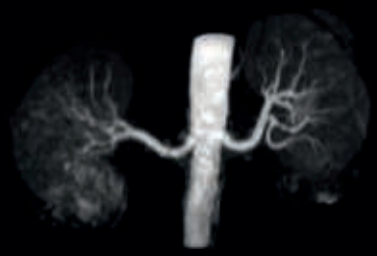
DWI
b1000
2:59 min



ADC
b1000
2:59 min



cDWI
b2000



NC Renal Angio
B Trance
3:24 min

Results from case studies are of predictive of results in other cases. Result in other cases may vary.

Quality image with the MR 5300 coils

Innovative MR 5300 coils do more than accelerate set-up time and improve the MR experience, they enhance your ability to create exceptional quality diagnostic images. MR 5300 coils powered with SmartSelect technology allows automatic detection of the right coil combinations and selects the right coil elements to provide highest SNR for the region of interest.

Breakthrough MR 5300 coils are more than 75% lighter than conventional coils, yet rigid enough to hold their shape during patient breathing or movement to maintain sharpness and clarity. Operators have the flexibility to position the coil in landscape or portrait mode to precisely match the anatomy and accurately capture the organ of interest. When combined with image acceleration technologies like Compressed SENSE, they deliver consistent quality images across a broad range of challenging anatomies and patients.

Philips MR 5300

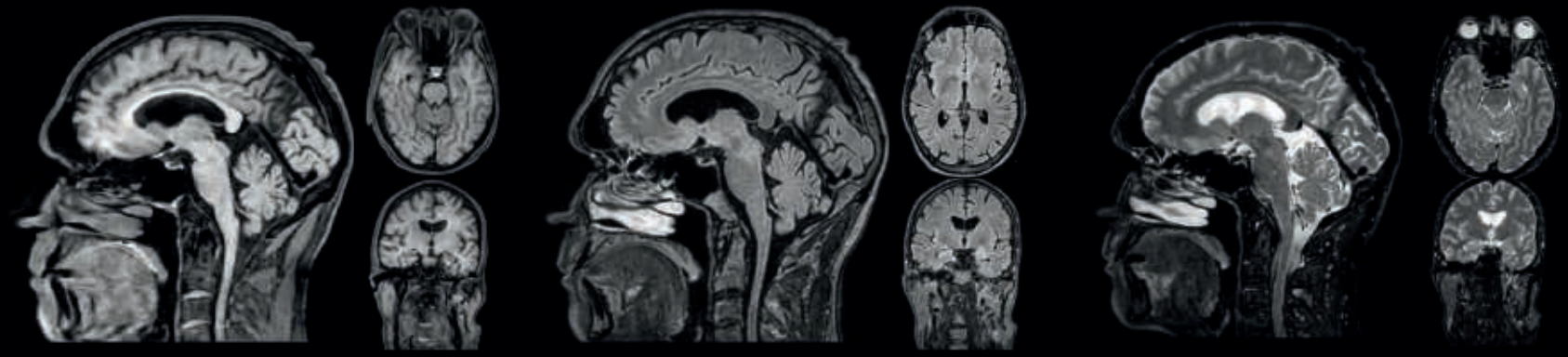
Turn images into answers up to – 50% faster

The sooner you have quality MR images in hand to make informed clinical diagnoses, the better – for you, your staff, your patients, and referring physicians who count on your images and insights to decide on the right treatment and best course of care.

The Philips MR 5300 puts time on your side with Compressed SENSE. It accelerates your existing MR scans by up to 50%[5] with virtually equal image quality, enabling you to make the best use of your resources. Your MR team has more time to focus on patients, while potentially opening up slots to perform additional MR exams.

Compressed SENSE also enables you to create exceptional MR images with 60% higher spatial resolution for confident diagnosis. It can be used for anatomical contrasts in both 2D and 3D scanning across a broad and deep population of routine patients, as well as those with challenging anatomies.

Up to 50% faster 2D and 3D scans with virtually equal image quality[5]

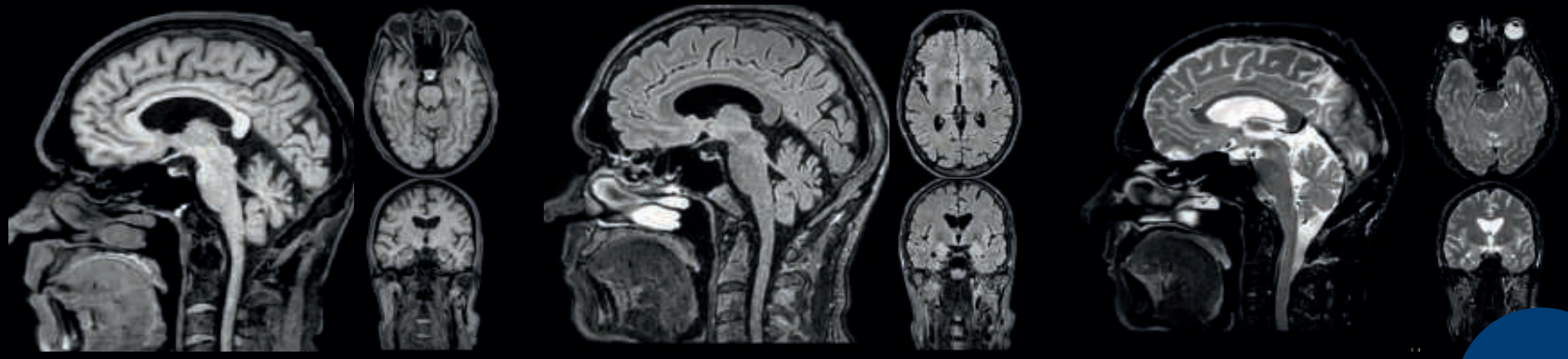


Conventional: 15:14 min

T1 BrainView
1.0x1.0x1.0
5:51 min

Flair BrainView
1.2x1.2x1.2
4:43 min

T2 BrainView
1.1x1.1x1.1
4:40 min



Compressed SENSE: 10:36 min

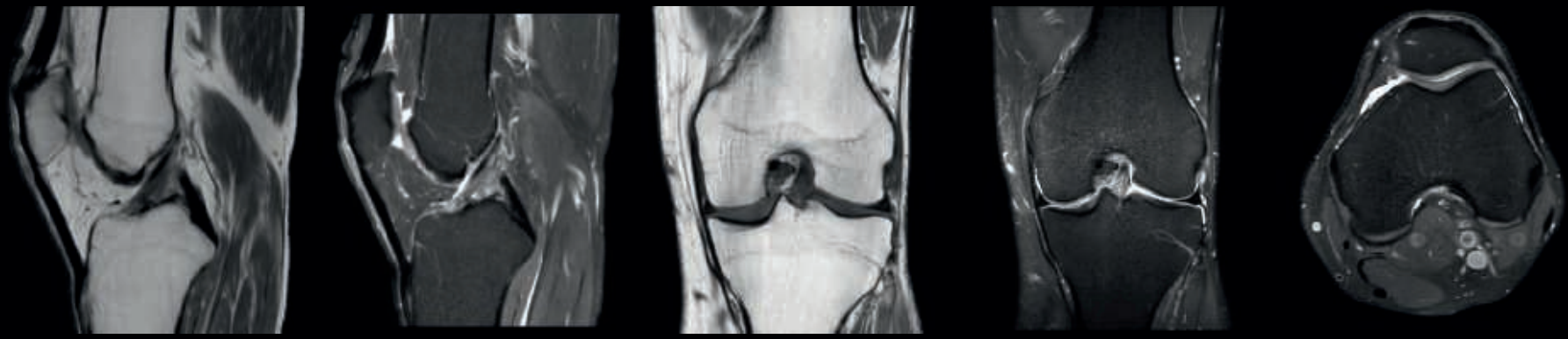
33%

T1 BrainView
1.0x1.0x1.0
3:45 min

Flair BrainView
1.2x1.2x1.2
3:07 min

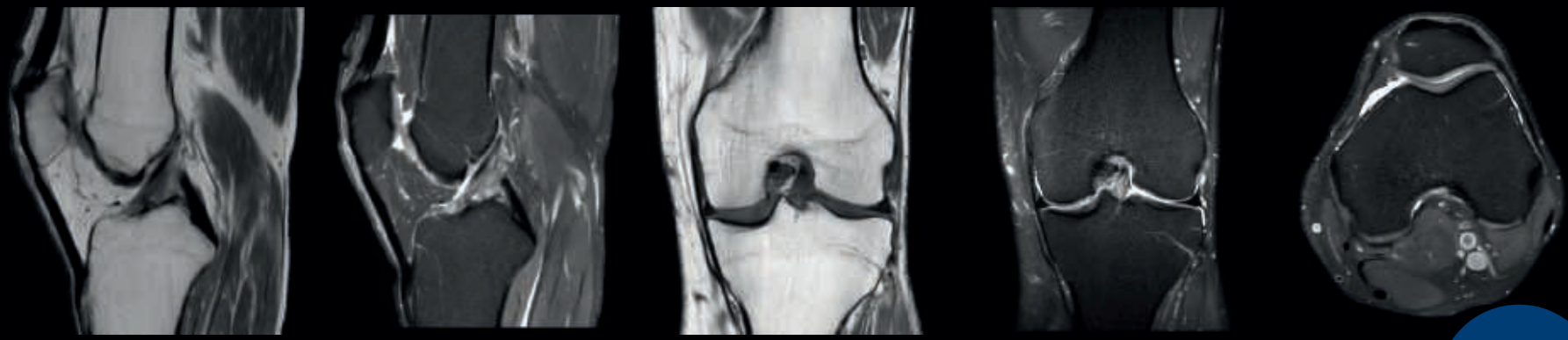
T2 BrainView
1.1x1.1x1.1
3:44 min

Results from case studies are of predictive of results in other cases. Result in other cases may vary.



Conventional: 18 min

PD Sag	PD FS Sag	T1 Cor	PD FS Cor	PD FS Tra
0.4x0.6x3	0.5x0.7x3	0.4x0.6x3	0.5x0.7x3	0.5x0.7x3
3:50 min	4:39 min	2:58 min	3:07 min	3:34 min



Compressed SENSE: 11 min

39%

PD Sag	PD FS Sag	T1 Cor	PD FS Cor	PD FS Tra
0.4x0.6x3	0.5x0.7x3	0.4x0.6x3	0.5x0.7x3	0.5x0.7x3
2:30 min	3:00 min	1:40 min	1:58 min	2:01 min

Results from case studies are of predictive of results in other cases. Result in other cases may vary.

Up to 50% faster 2D and 3D scans with virtually equal image quality[5]

Conventional: 16:30 min

T2 Sag	0.9x1.0x4	3:10 min
T1 Sag	0.9x1.0x4	3:10 min
Stir Sag	1.0x1.2x4	3:38 min
T2 Tra	0.7x0.8x4	3:28 min
T1 Tra	0.6x0.8x4	3:19 min

Results from case studies are of predictive of results in other cases. Result in other cases may vary.

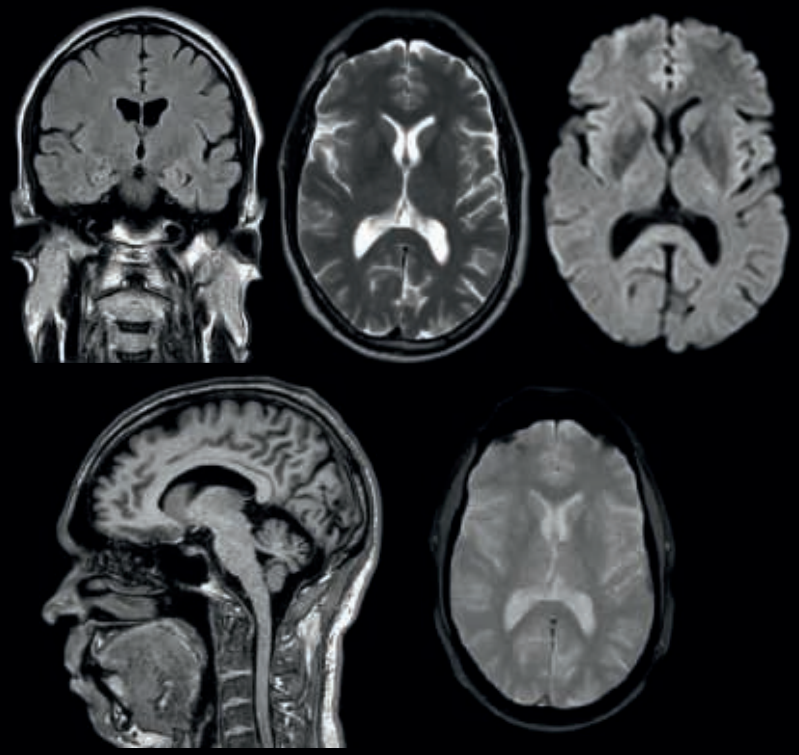
Compressed SENSE: 11 min

39%

T2 Sag	**0.9x1.0x4**	**2:04 min**
T1 Sag	**0.9x1.0x4**	**2:05 min**
Stir Sag	**1.0x1.2x4**	**2:30 min**
T2 Tra	**0.7x0.8x4**	**2:24 min**
T1 Tra	**0.6x0.8x4**	**2:00 min**

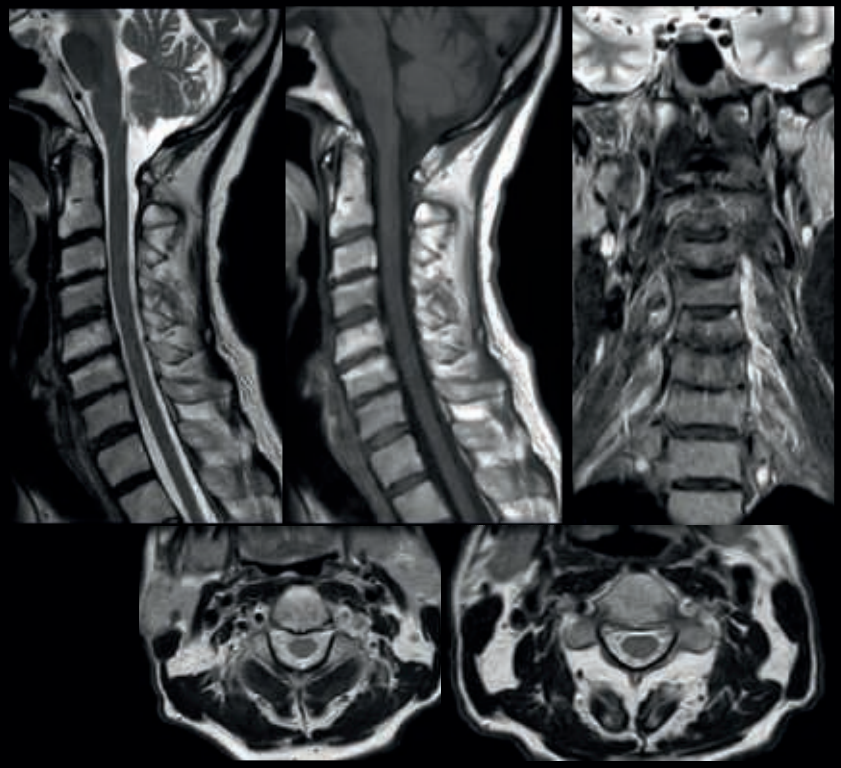
Results from case studies are of predictive of results in other cases. Result in other cases may vary.

5 min routine exam



Flair Cor	**72 sec**
T2 Tra	**33 sec**
DWI Tra	**32 sec**
T13D Sag	**100 sec**
FFE Tra	**30 sec**

4:45 min



T2 Sag	**52 sec**
T1 Sag	**51 sec**
Stir Sag	**63 sec**
T2 Tra	**118 sec**

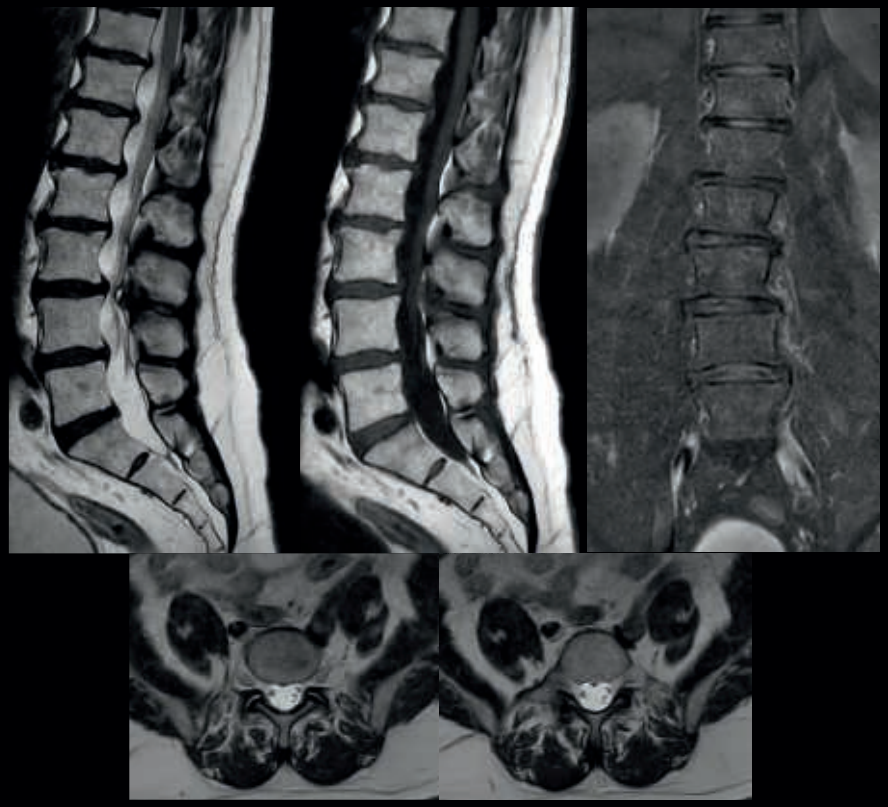
4:44 min

Results from case studies are of predictive of results in other cases. Result in other cases may vary.

The 5-minute, push-button exam

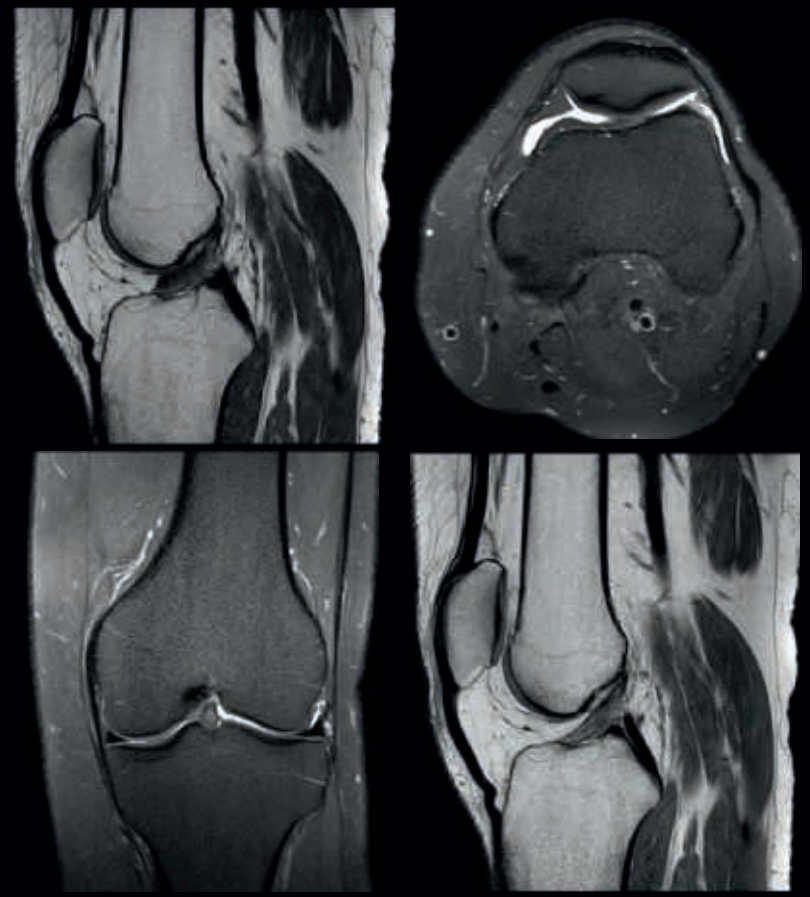
Take advantage of the MR 5300's advanced AI[1] algorithms to automate complex geometry planning and execution of complete MR exams to produce consistent, reliable results – in just 5 minutes. Even when relying on less-experienced staff. The MR 5300 accelerates exams by up to 50% and automatically plans the geometry of the scans in the ExamCard. You can count on fast, reproducible planning results in more than 80% of procedures – to support brain, spine, knee, shoulder and breast exams. Accelerate workflow and enhance consistency with 5-minute MR exams.

5 min routine exam



T2 Sag	62 sec
T1 Sag	68 sec
Stir Cor	92 sec
T2 Tra	98 sec

5:20 min

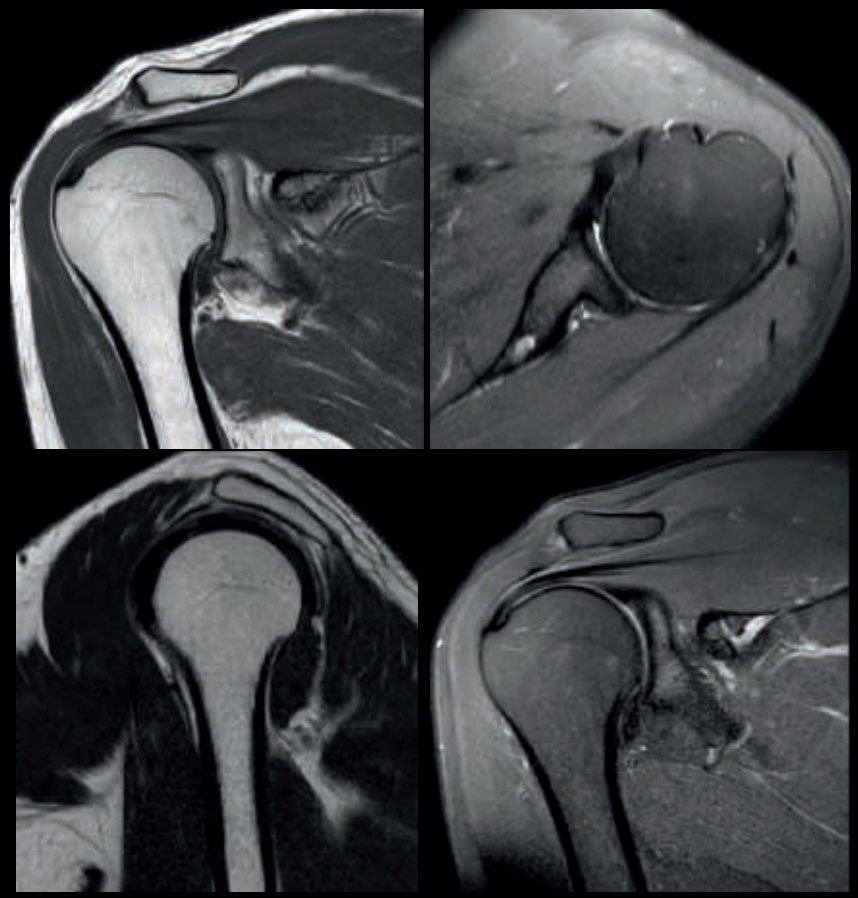


T1 Sag	67 sec
PD FS Tra	90 sec
PD FS Cor	84 sec
PD Sag	52 sec

4:53 min

Results from case studies are of predictive of results in other cases. Result in other cases may vary.

5 min routine exam



T1 Cor	62 sec
PD FS Tra	78 sec
T2 Sag	36 sec
T2 FS Cor	90 sec

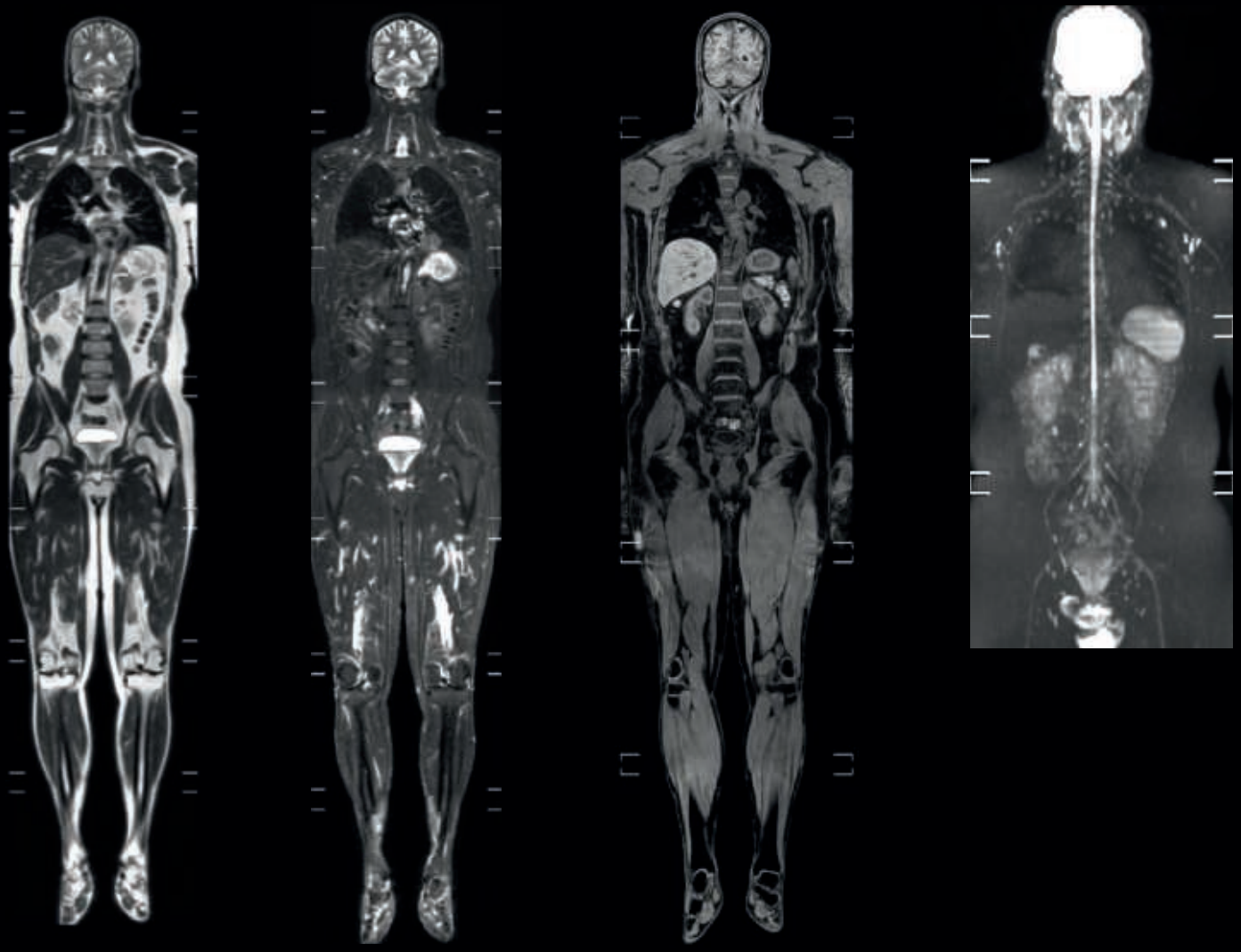
4:26 min

PD FS Cor	52 sec
T1 Cor	50 sec
T2 Tra	36 sec
T2 Dixon (W+IP) Sag	94 sec

3 52 min

Results from case studies are of predictive of results in other cases. Result in other cases may vary.

20 mins whole body



Whole Body Imaging	18:28 min

T2 Cor, 6 mm	Stir Cor, 6 mm	mDIXON Cor, 2 mm	DWIBS
33 sec/stn	31 sec/stn	16 sec/stn	2:17 min/stn
3:51 min	3:37 min	1:52 min	9:08 min

Results from case studies are of predictive of results in other cases. Result in other cases may vary.

Capture a body of knowledge – in 20 minutes

When it comes to detecting, diagnosing, planning, and monitoring cancer therapy, whole-body MRI has become an increasingly valuable option for metastases imaging. That's because cancer specialists need fast, accurate images and information to make critical decisions about the best course of care for patients looking to them for answers.

The MR 5300 provides high-quality whole-body ExamCard protocols in under 20 minutes, drawing on Philips Compressed SENSE, mDIXON XD, and DWIBS whole-body diffusion techniques. While workflow simplification tools like SmartShim automate image-based shimming for easy multi-station pasting like MobiView and MobiFlex to further shorten MR exams, lightweight MR 5300 coils help to make set-up fast and easy.

The MR 5300's large field-of-view and highly linear gradients support fast, high-quality coronal whole body DWIBS for cancer diagnosis, helping to drive oncologist referrals.

The best outcomes depend on the best images

When it comes to creating clinical images that impact your patients' lives, you need to be sure – about your MR system and the quality of the images it enables you to generate.

The MR 5300 leverages fast scanning methods to deliver exceptional quality fat-free and motion-free images you can rely on to deliver the best care possible.

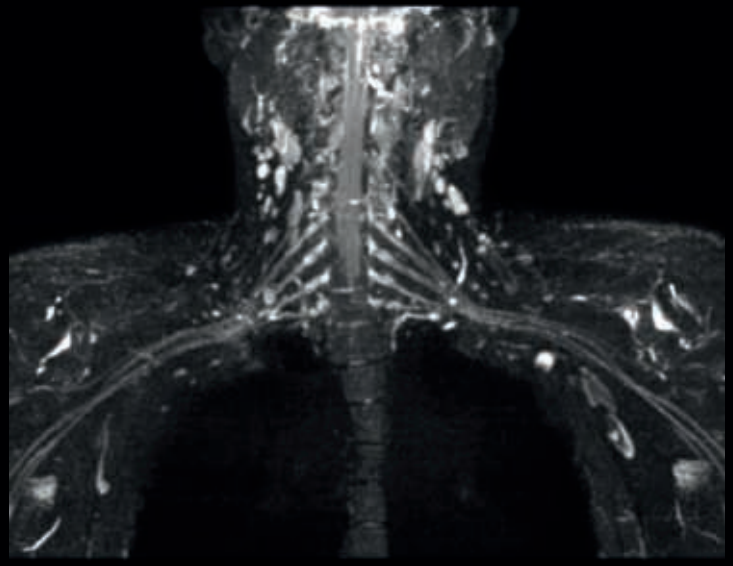
It enables you to handle high-resolution MSK scans, complex spine examinations, MR conditional implant imaging, and oncology imaging with enduring consistency. And it positions your MR department to become the preferred partner within your referral network.

Great IQ by design.

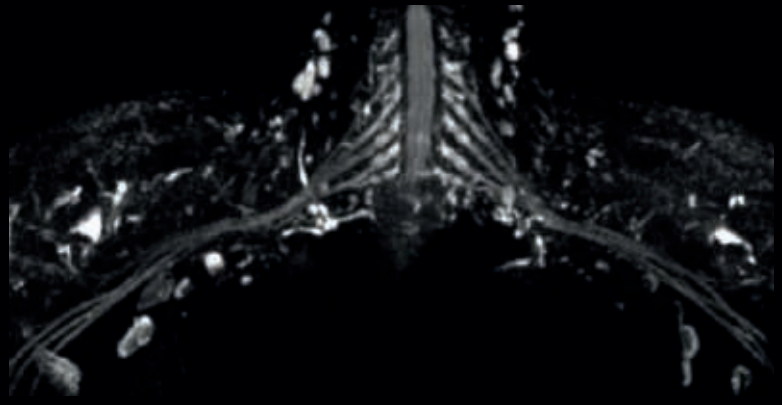
Philips MR 5300 includes a wealth of technology innovations designed to generate the detailed, high quality images essential to diagnosing and treating challenging patients with confidence.

It starts with superlight MR 5300 coils – that can be used alone or in combination, bringing extraordinary versatility to creating quality MR images of virtually any anatomy. The MR 5300's large 55cm field-of-view allows for extended anatomical coverage. And premium signal-to-noise ratio with dStream – up to 40% with neurological exams – provides outstanding image resolution. High-quality whole-body exams can be completed in under 20 minutes.

High quality diagnostic imaging by design



3D NerveView
4:46 min



3D NerveView
Oblique MPR

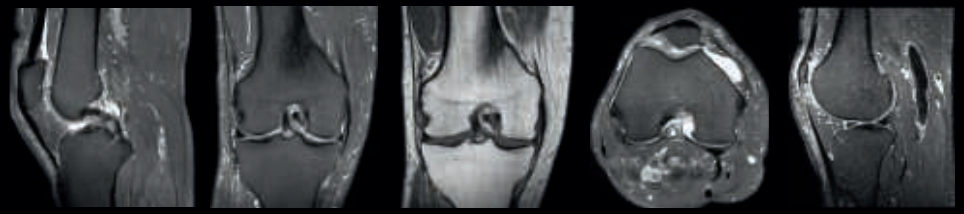
T1 Sag
3:25 min (1:30 min/stn)

T2 Sag
3:10 min (1:30 min/stn)

Stir Sag
3 min (1:30 min/stn)

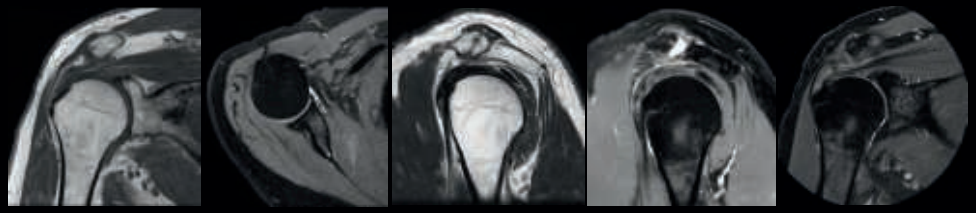
Results from case studies are of predictive of results in other cases. Result in other cases may vary.

Fast exams and consistent high-quality imaging with MR 5300 coils



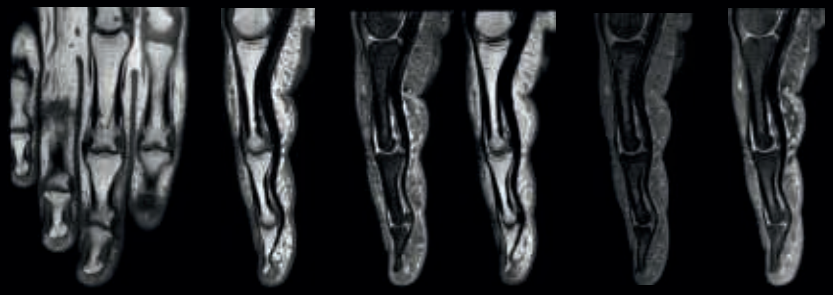
MSK 16 coil solution

PD FS Sag	PD FS Cor	T1 Cor	PD FS Tra	3D PD FS
0.5x0.7x3	0.4x0.7x3	0.3x0.5x3	0.4x0.6x3	0.7x0.7x0.7
3:45 min	2:58 min	1:20 min	3:12 min	4:12 min



MSK 16 coil solution

T1 Cor	PD FS Tra	T2 Sag	PD FS Sag	PD FS MV Cor
0.4x0.6x3	0.5x0.7x3	0.5x0.7x3	0.5x0.7x3	0.6x0.6x3
1:57 min	2:30 min	2:18 min	2:55 min	2:55 min

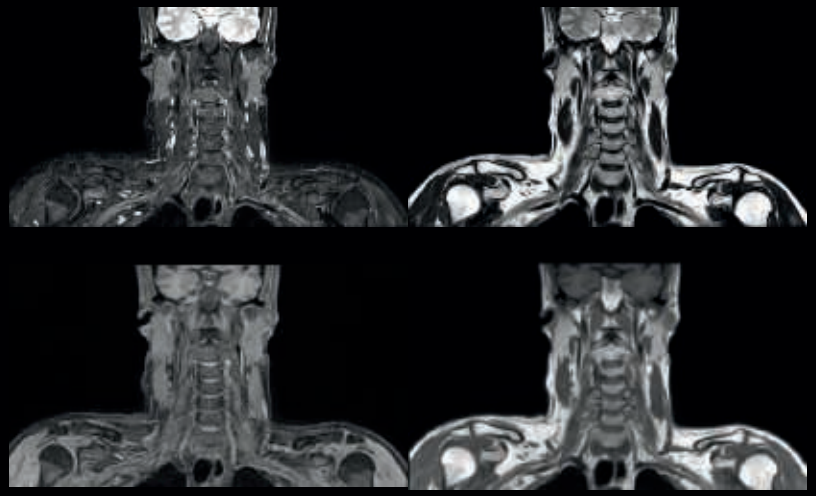


MSK S

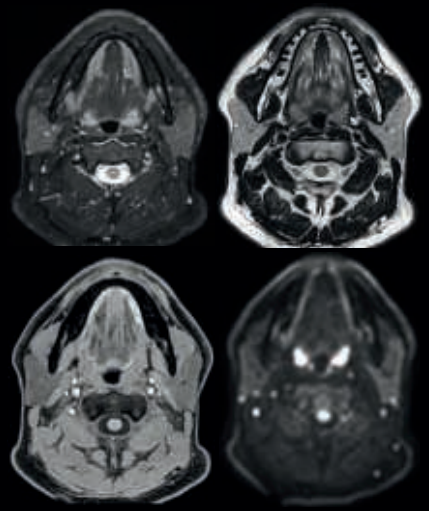
T1 Cor	T1 Sag	T2 mDIXON Sag	mFFE Sag	PD FS Sag
0.3x0.4x1.5	0.3x0.4x1.5	0.4x0.5x2	0.3x0.4x1.5	0.3x0.4x1.5
3:04 min	2:46 min	3:30 min	3:16 min	2:50 min

Results from case studies are of predictive of results in other cases. Result in other cases may vary.

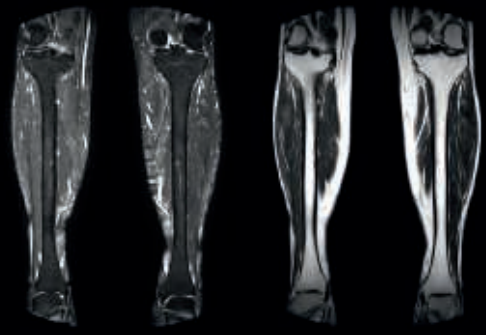
Fat-free and motion-free imaging with mDIXON XD and MultiVane XD



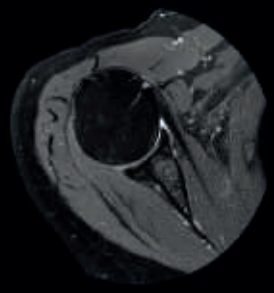
T2 DIXON (450 FOV)	1x1.2x3	4:35 min
T1 DIXON (450 FOV)	1x1.2x3	3:36 min



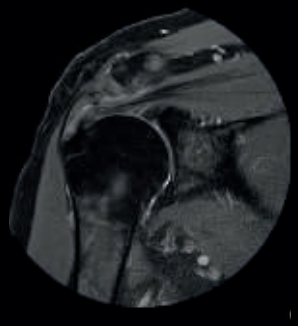
T2 Dixon Tra	0.8x1.0x3	4:06 min
mDixon Tra	1.0x1.0x1	3:53 min
DWI, b800	3.0x3.0x4	4:19 min



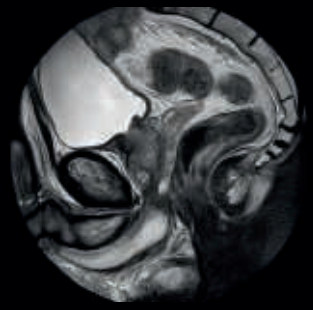
Long bones
T2 Dixon TSE, 3mm, 3:39 min



Shoulder coil mvxd
PD FS MV Tra 0.7 x 0.7 x 3 2:40 min



Shoulder coil mvxd
PD FS MV Cor 0.6x0.6x3 2:55 min



Prostate
T2 MVXD Sag
0.7x0.7x3
3:10 min

Results from case studies are of predictive of results in other cases. Result in other cases may vary.

Stay on schedule with fast, high quality images

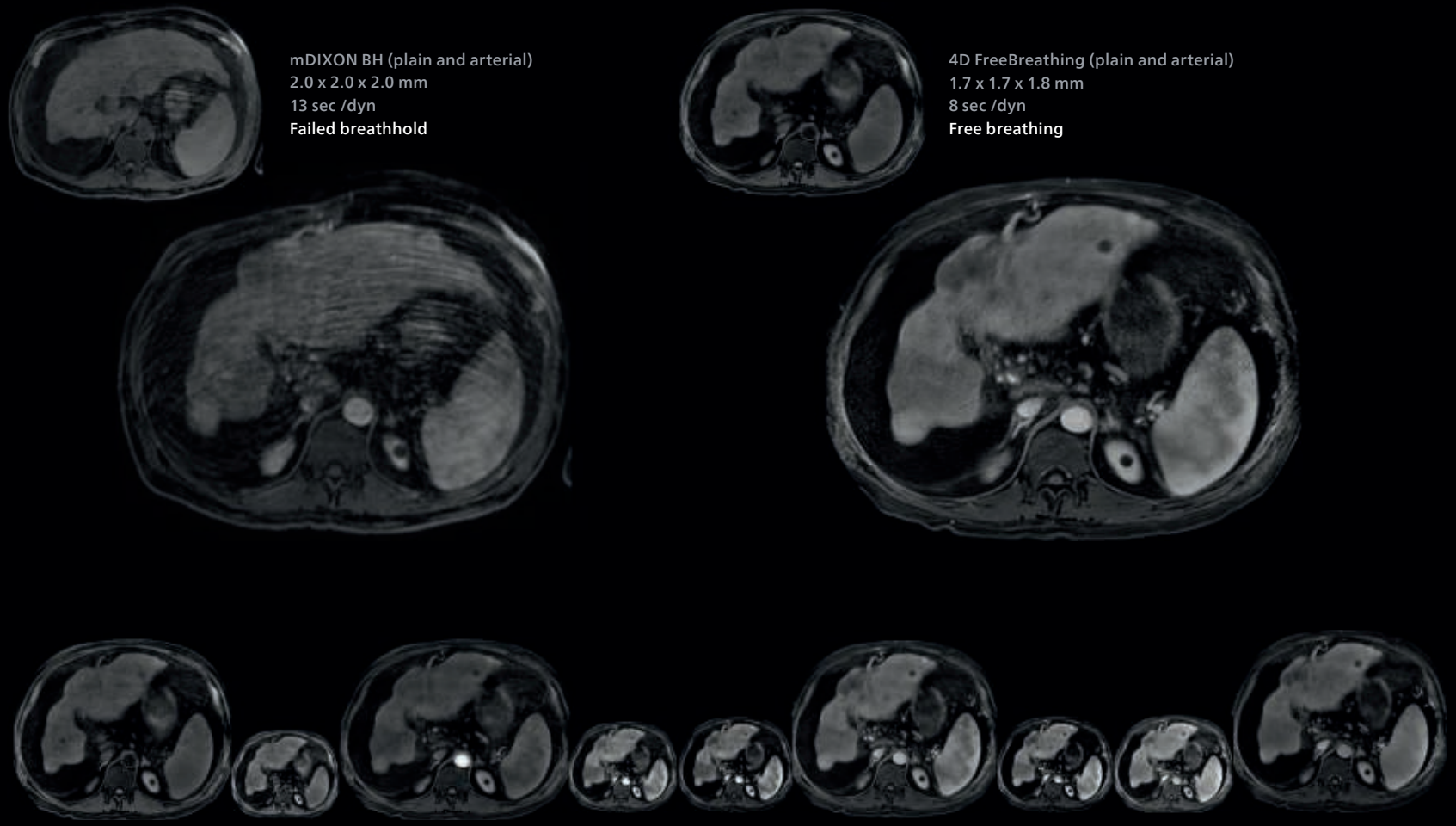
The growing demand for imaging challenging patients has led to a second challenge – staying on schedule. Even one repeat scan can increase patient wait time and staff overtime.

Philips MR 5300's fast, efficient scanning methods accelerate imaging of difficult anatomies and challenging patients, providing the consistent quality you need to streamline imaging and satisfy referring physicians.

Bring a new dimension to fat suppression with uniform, consistent fat-free imaging, even over large field-of-views and in complex anatomies like the head/neck, spine, and MSK. Provide up to four image types in one single scan, with and without fat suppression contrasts – in routine scan times and at the highest resolution, simultaneously.

mDIXON XD TSE enables you to enhance your imaging strategies by simplifying routine TSE procedures. Deliver high resolution diagnostic images even in the case of severe patient motion by providing motion correction to a full range of anatomies, in short scan times. And MultiVane XD works in multiple orientations and for various contrasts (T1w, T2w, FLAIR), helping you to increase your diagnostic confidence.

Your patients can breathe easier and so can you – with 4D FreeBreathing



4D FreeBreathing, 1.7 x 1.7 x 1.8 mm, 3 sec /dynamic
Courtesy: Kantonsspital Winterthur, Switzerland
Clinical images from Ingenia Ambition 1.5T

Results from case studies are of predictive of results in other cases. Result in other cases may vary.

Your patients can breathe easier and so can you

Improve the MR experience for patients who have difficulty holding their breath – or find it hard to follow breathing instructions – with 4D FreeBreathing. It gives you the freedom to produce excellent image quality from multi-phase liver studies. Achieve a temporal resolution down to 3 seconds per phase, performed without breath holds.

4D FreeBreathing and VitalEye, an external sensor for touchless respiratory triggering, work together to deliver exceptionally reliable results and improved imaging confidence.

Up to 3 times faster MRI exams with no loss in image quality[3]

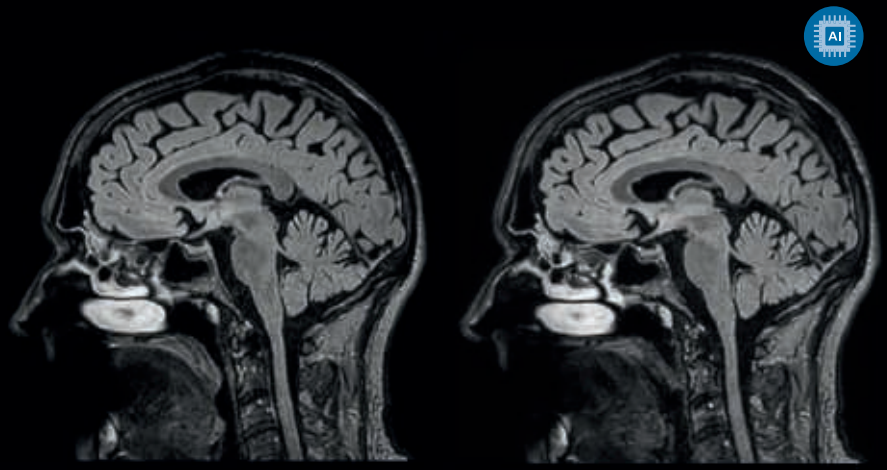
Time is one of the most precious commodities you have in your MR department.

What if we told you there was a way to recover time you have been losing during your MR examinations? And use the time you do have more wisely? Imagine how that could help you make better use of your scarce resources and better meet the demands of referring physicians.

That's exactly what our acceleration technologies such as Philips SmartSpeed can do for your MR department. SmartSpeed AI can speed up scan time nearly 3 times with no loss in image quality1, free up time to improve your patient experience. You can use the time gained to scan more patients and reduce the cost per scan, to add unplanned patients to the schedule or free up time to improve your patient experience. It can also provide higher image quality1 to enhance diagnostic confidence.

High resolution brain imaging in a short scan time

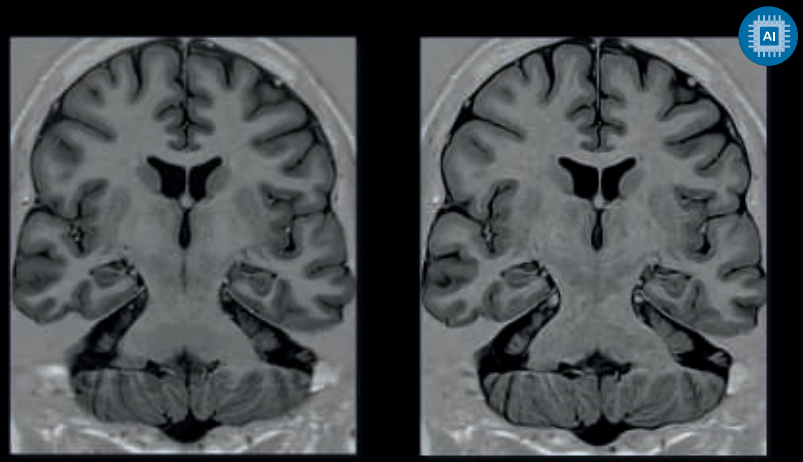
SmartSpeed, 3D FLAIR



Conventional
1.2x1.2x1.2 mm
4:43 min

SmartSpeed
1.2x1.2ax1.2 mm
2:34 min

SmartSpeed, T1w IR



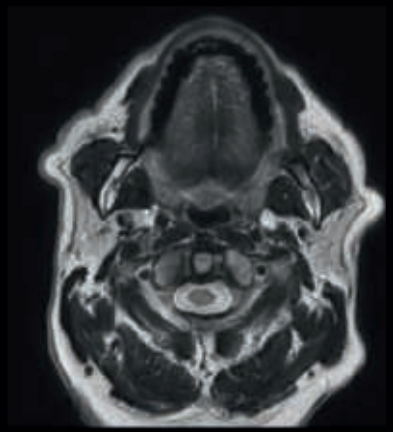
Conventional
0.80x0.9x3.0 mm
5:09 min

SmartSpeed
0.50x0.56x2.0 mm
5:13 min

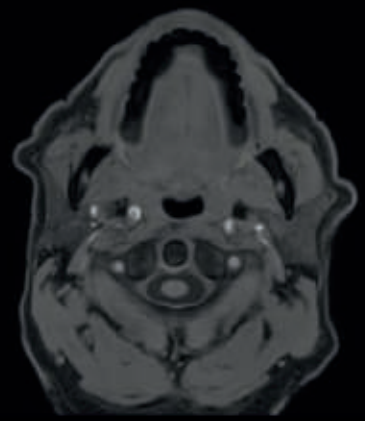
Results from case studies are of predictive of results in other cases. Result in other cases may vary.

Motion robust Head&Neck protocol powered by SmartSpeed

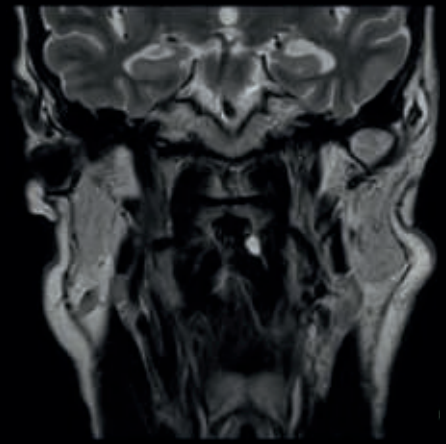
SmartSpeed, MotionFree and 3D FreeBreathing



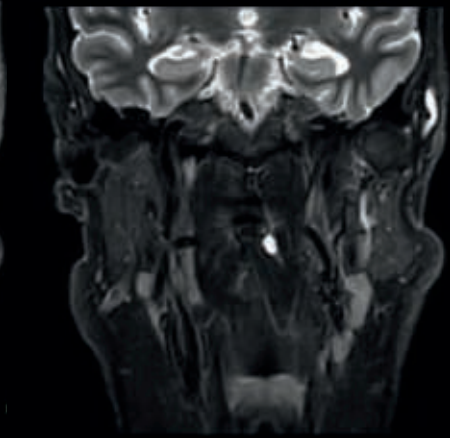
SmartSpeed MotionFree
Ax T2w TSE
0.75 x 0.75 x 3.0 mm
3:12 min



SmartSpeed FreeBreathing
Cor 3D T1w TSE
0.9 x 0.9 x 3.0 mm
3:38 min



SmartSpeed MotionFree
Cor T2w TSE
0.75 x 0.75 x 3.0 mm
3:38 min



SmartSpeed MotionFree
Ax T1w TSE
1.0 x 1. x 3.0 mm
3:46 min

Results from case studies are of predictive of results in other cases. Result in other cases may vary.

High resolution Spine imaging in a short scan time powered by SmartSpeed

2D C-Spine multi-contrast

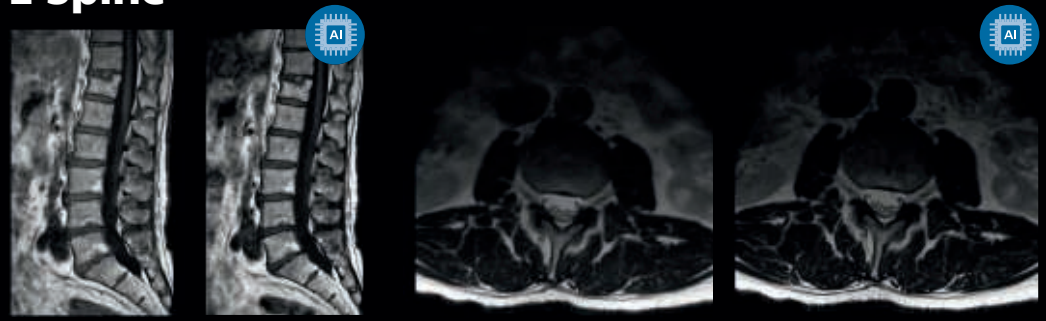
SmartSpeed
Sag T2w TSE
0.9 x 1.0 x 3.5 mm
2:10 min

SmartSpeed
Sag T1w TSE
0.9 x 1.1 3.5 mm
1:54 min

SmartSpeed
Sag STIR
1.2x 1.3 x 3.5 mm
2:36 min

SmartSpeed
Sag T2w TSE Dixon
1.0 x 1.2 x 3.5 mm
3:04 min

L-Spine



Conventional
T1
0.8 x 0.96 x 4 mm
2:28 min

SmartSpeed
T1
0.9 x 0.97 x 4 mm
1:09 min

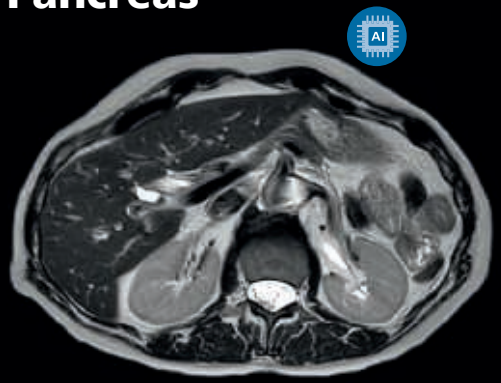
Conventional
T2 Ax
0.6 x 0.8 x 4 mm
4:42 min

SmartSpeed
T2 Ax
0.6 x 0.8 x 4 mm
2:45 min

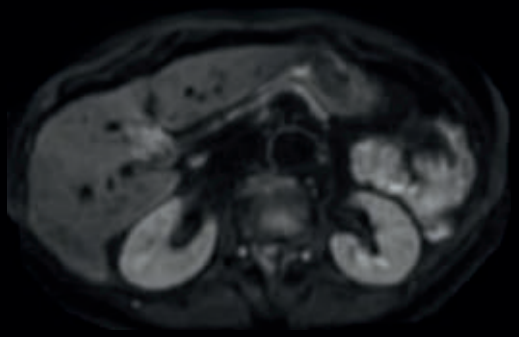
Results from case studies are of predictive of results in other cases. Result in other cases may vary.

SmartSpeed Free Breathing

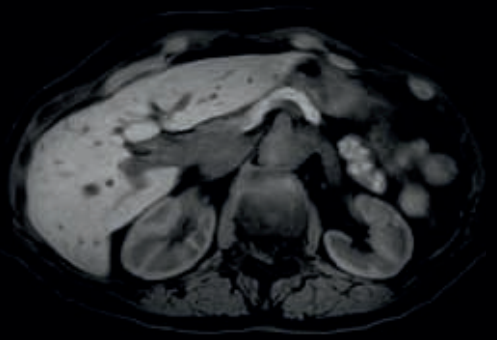
Pancreas



SmartSpeed
Ax T2w FS TSE Motion Free
0.4 x 0.4 x 5.0 mm
2:48 min

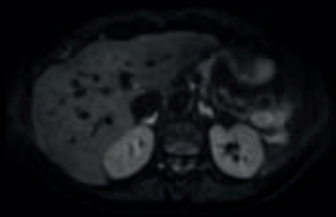


Ax DWI b0, b800
1.4 x 1.4 x 5.0 mm
2:42 min

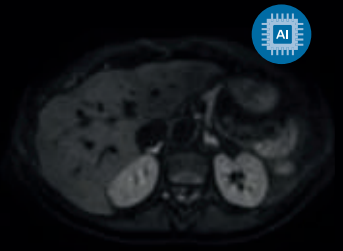


Ax 3D Free Breathing
0.6 x 0.6 x 3.5 mm
2:07 min

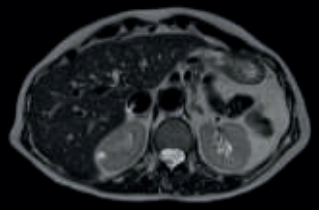
Liver



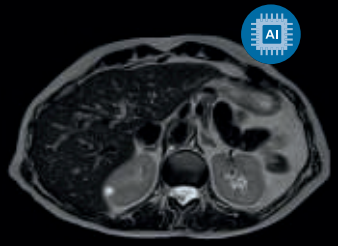
Conventional
DWI b800
2.3 x 3 x 6 mm
3:18 min



SmartSpeed
DWI b800
3 x 3 x 6 mm
2:42 min



Conventional
SSh T2
1.4 x 1.6x 5 mm
0:37 min



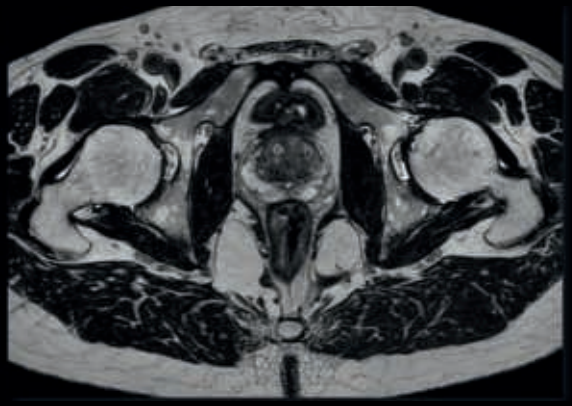
SmartSpeed
MF T2
1.1x1.1x5 mm
2:50 min

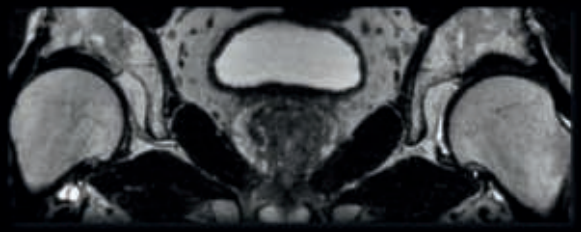
SmartSpeed
3D MPRC
3.1x1.2 mm
1:21 mi

Results from case studies are of predictive of results in other cases. Result in other cases may vary.

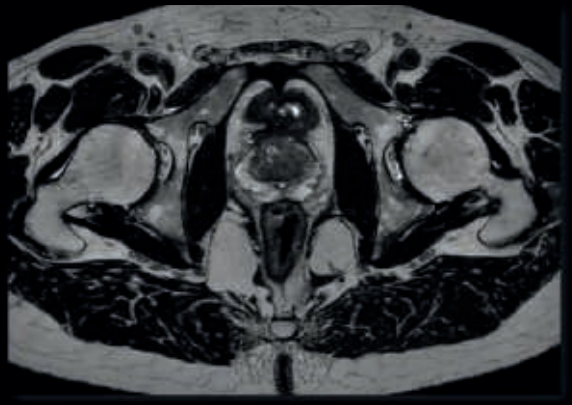
Faster imaging with SmartSpeed

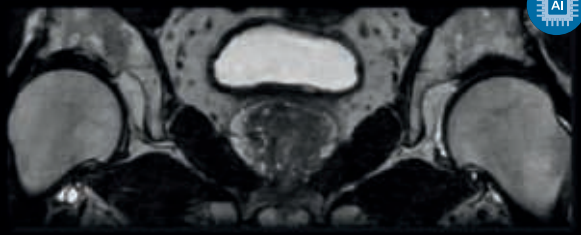
3D T2 ProstateView





Conventional
1.0x1.0x1.0mm
5:47 min

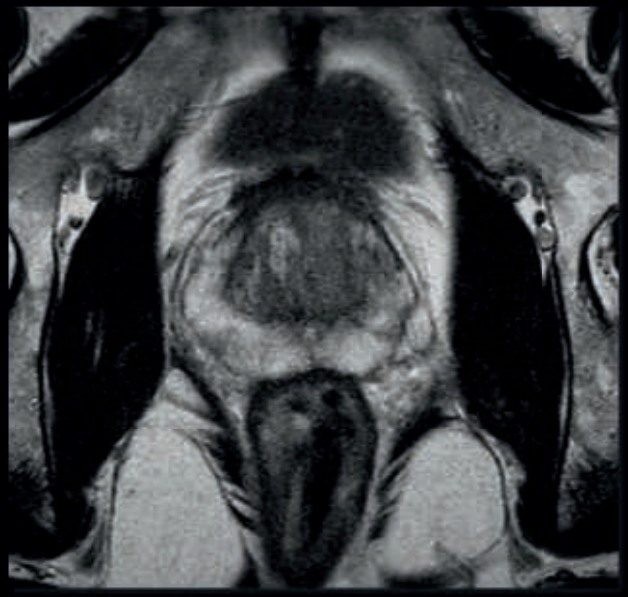




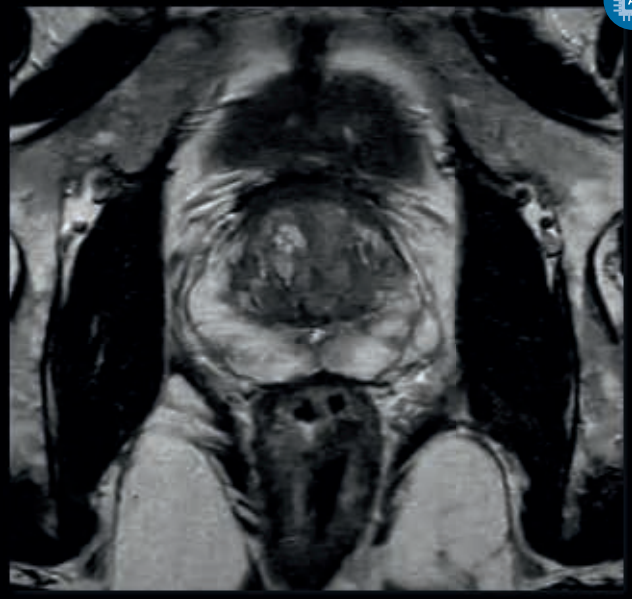
SmartSpeed
0.9x0.9x0.9mm
3:37 min

Results from case studies are of predictive of results in other cases. Result in other cases may vary.

Prostate T2 PIRADS standard



Conventional
0.4x0.7x3mm
5:56 min



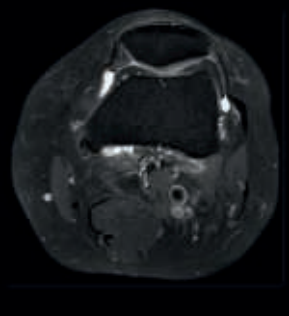
SmartSpeed
0.4x0.7x3mm
2:36 min

Results from case studies are of predictive of results in other cases. Result in other cases may vary.

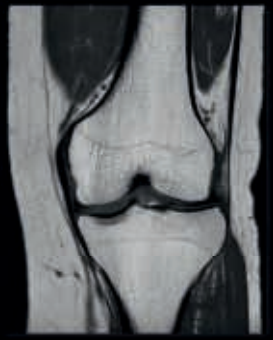
Faster imaging with SmartSpeed

Conventional

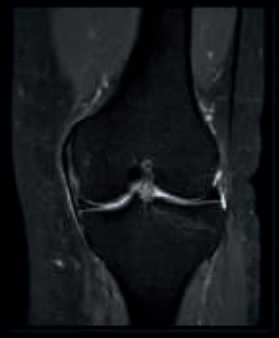
PDw Sag
0.5x0.6x3 mm
2:47 min



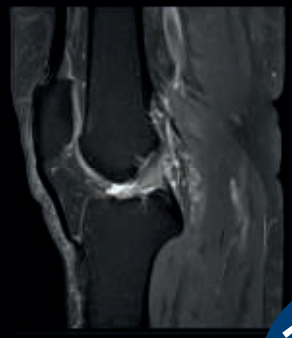
PD Spair Tra
0.5x0.6x3 mm
3:00 min



T1w Cor
0.5x0.6x3 mm
1:55 min



PD Spair Cor
0.5x0.6x3 mm
2:36 min

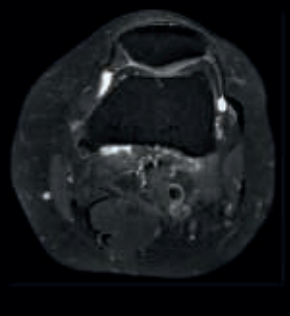


PD Spair Sag
0.5x0.6x3 mm
3:48 min

14:06 min

SmartSpeed

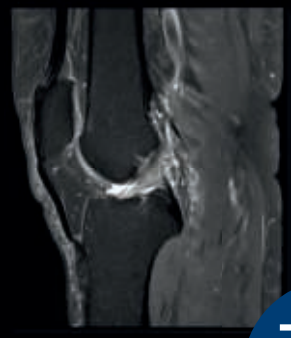
PDw Sag
0.5x0.6x3 mm
1:14 min



PD Spair Tra
0.5x0.6x3 mm
1:40 min

T1w Cor
0.5x0.6x3 mm
0:47 min

PD Spair Cor
0.5x0.6x3 mm
1:27 min

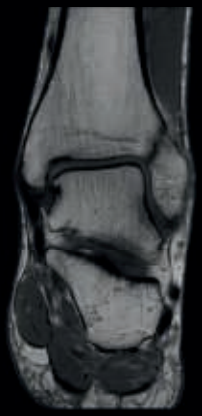


PD Spair Sag
0.5x0.6x3 mm
2:00 min

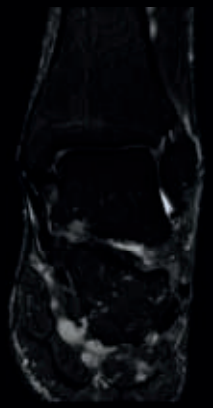
7:08 min

Results from case studies are of predictive of results in other cases. Result in other cases may vary.

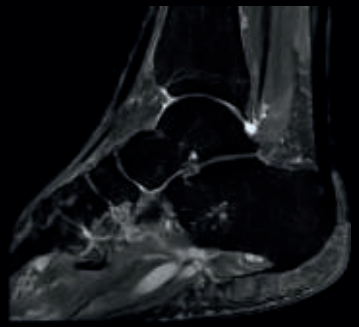
SmartSpeed



T1
0.4 x 0.5 x 3 mm
1:26 min

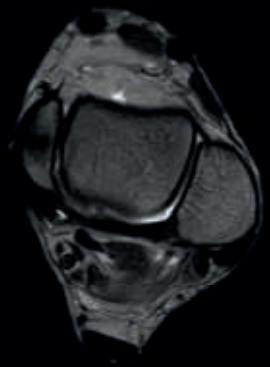


T2 FatSat
0.6 x 0.7 x 3 mm
2:56 min



PD FatSat
0.5 x 0.6 x 3 mm
1:58 min

PD
0.3 x 0.4 x 3 mm
2:20 min

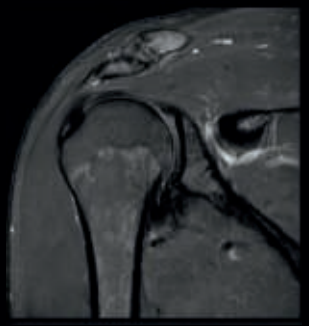


T2
0.6 x 0.8 x 3 mm
1:22 min

Results from case studies are of predictive of results in other cases. Result in other cases may vary.

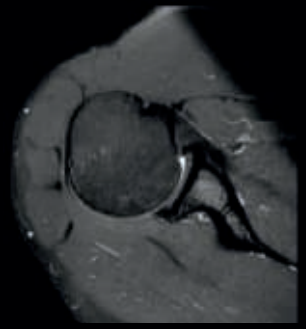
High quality shoulder imaging

SmartSpeed

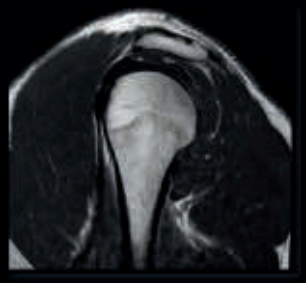


PD Spair Cor
0.6x0.7x3 mm
1:35 min

T1 Cor
0.5x0.7x3 mm
1:10 min

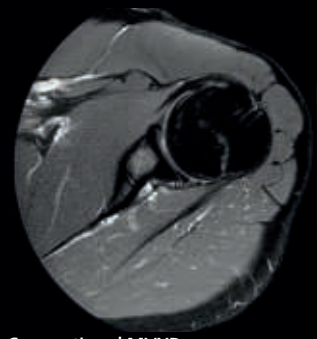


PD Spair Tra
0.5x0.7x3 mm
1:23 min



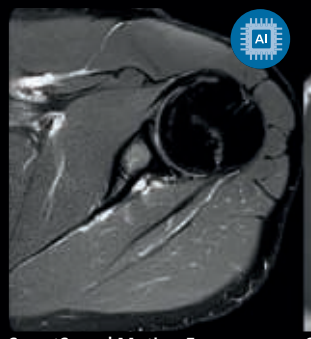
T2 Sag
0.5x0.7x3 mm
0:43 min

SmartSpeed MotionFree



Conventional MVXD
T2 Spir
0.7x0.7x3.5
2:36 min

Conventional MVXD
T1
0.65x0.65x3.5
2:01 min



SmartSpeed Motion Free
T2 Spir
0.7x0.7x3.5
2:08 min

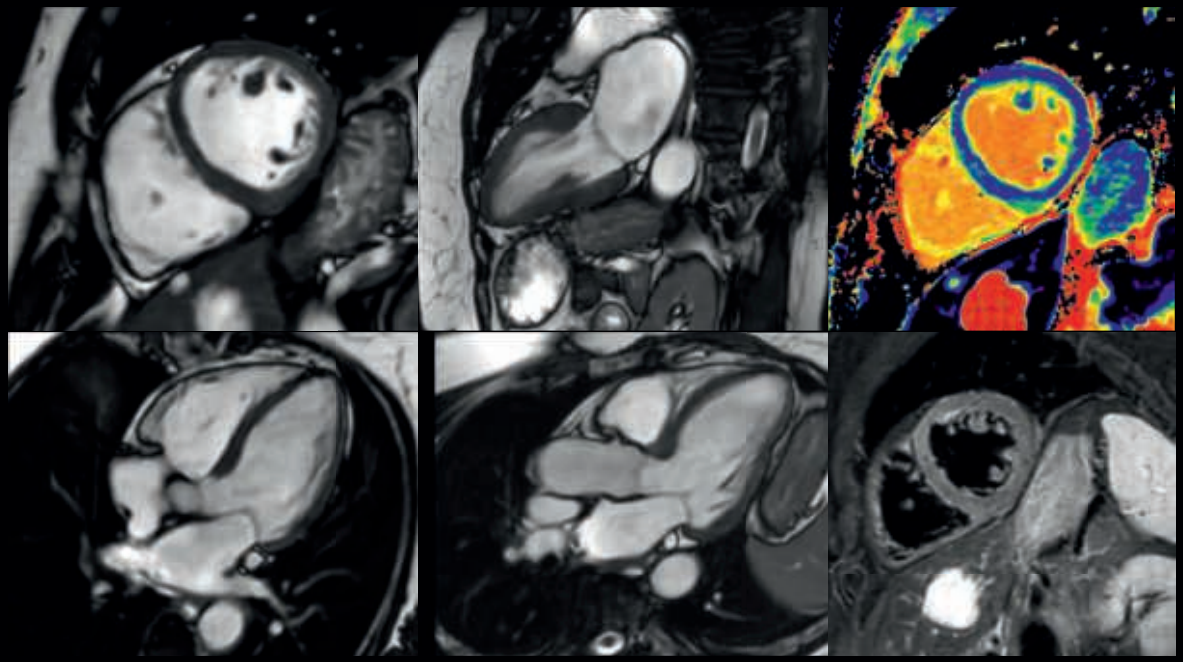
SmartSpeed Motion Free
T1
0.65x0.65x3.5
1:19 min

4:30 min

Results from case studies are of predictive of results in other cases. Result in other cases may vary.

Non-contrast Cardiac protocol

SmartSpeed



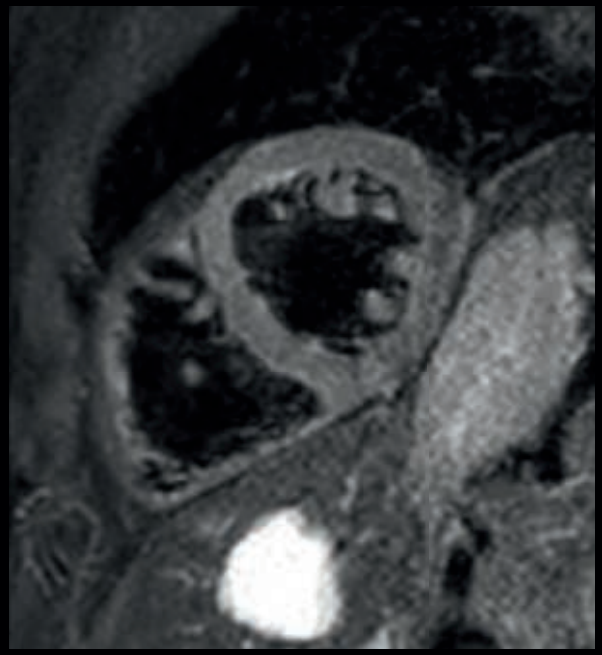
Sequences	Resolution	Acq time
Cine BTFE SA (34 phases)	1.3 x 1.4 x 8.0mm	10s BH
Cine BTFE 4ch (57 phases)	1.9 x 1.8 x 8.0mm	10s BH
Cine BTFE 2ch (34 phases)	1.3 x 1.4 x 8.0mm	10s BH
Cine BTFE LVOT (39 phases)	1.7 x 1.7 x 8.0mm	10s BH
T2w STIR Black Blood	1.1 x 1.3 x 6.0mm	12s BH
T1 mapping	1.4 x 1.4 x 10.0mm	11s BH

Results from case studies are of predictive of results in other cases. Result in other cases may vary.

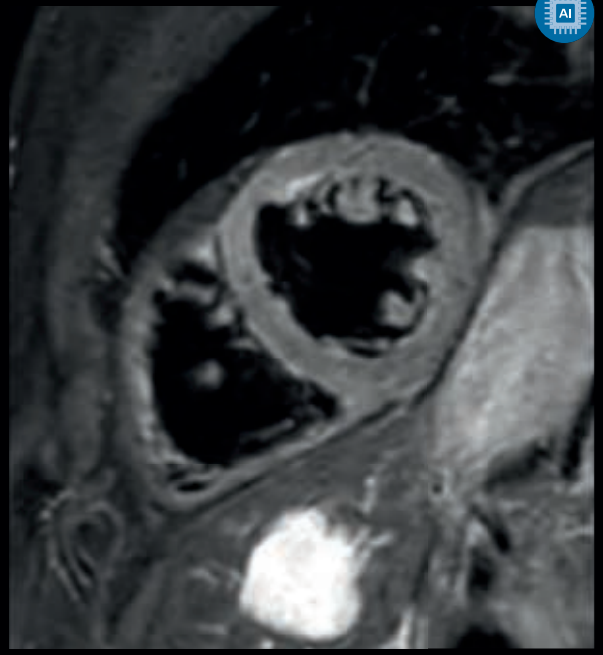
STIR Black Blood, up to 54% increased resolution[3]

SmartSpeed

SENSE
T2w STIR Black Blood
1.5 x 2.1 x 6.0 mm
12s BH



C-SENSE
T2w STIR Black Blood
1.1 x 1.3 x 6.0 mm
12s BH

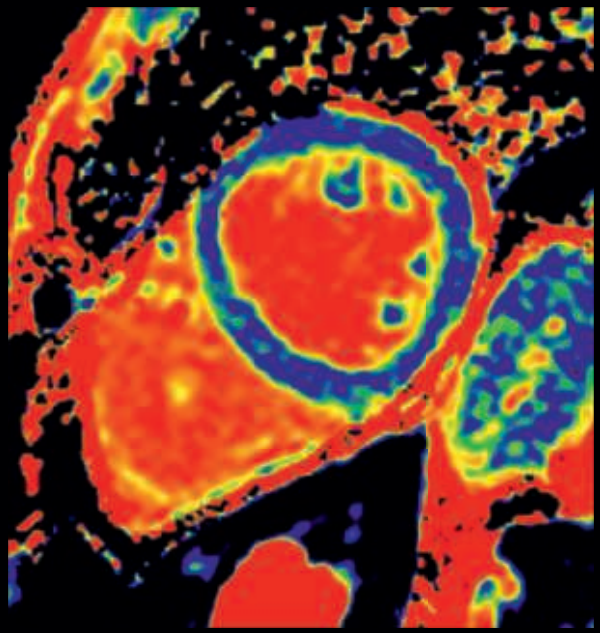


SmartSpeed
T2w STIR Black Blood
1.1 x 1.3 x 6.0 mm
12s BH

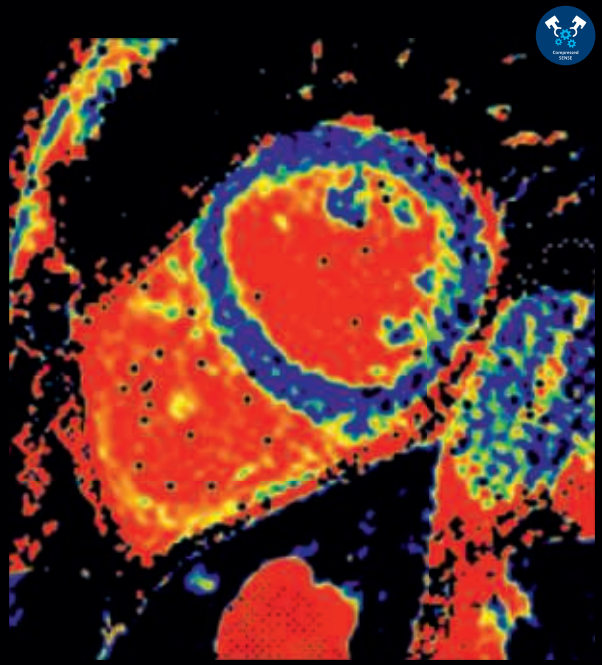
Results from case studies are of predictive of results in other cases. Result in other cases may vary.

SmartSpeed aim to improved SNR, IQ and reliable quantitative value

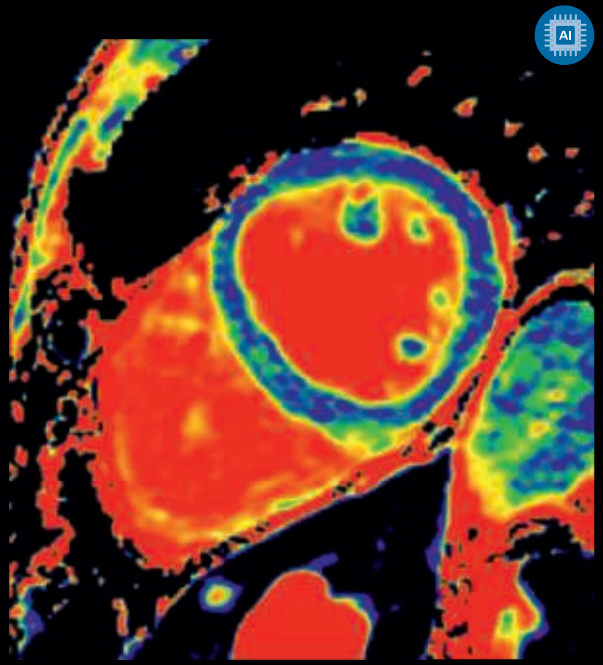
Smart Quant Cardiac



SENSE
T1 mapping
1.9 x 2.0 x 10.0 mm
11s BH



C-SENSE
T1 mapping
1.4 x 1.4 x 10.0 mm
11s BH



SmartSpeed
T1 mapping
1.4 x 1.4 x 10.0 mm
11s BH

Results from case studies are of predictive of results in other cases. Result in other cases may vary.


Prevent issues before they occur
through proactive remote monitoring
PHILIPS

Protect and enhance your MR investment

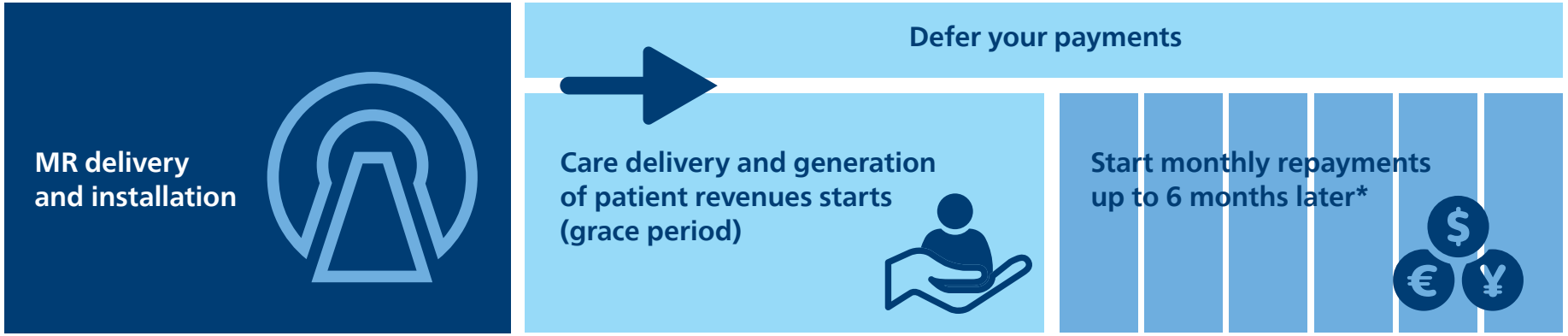
The MR 5300 takes helium-free MR operations to the next level – with breakthroughs designed to deliver automated patient-centric workflow, ultra-fast exams and high quality diagnostic imaging. We offer thoughtful programs to protect your investment and ensure ongoing performance.

Avoid disruptions in your schedule and delays of patient care through our latest service innovations, including a scanner uptime guarantee. **Prevent issues before they occur** through proactive remote monitoring, remote diagnostics and remote and field service support. With e-Alerts and other remote data, we monitor more than 500 parameters of your MR system from a distance, detecting and resolving issues without impacting your department's operations. In fact, more than 50% of MR service cases are resolved remotely[11].

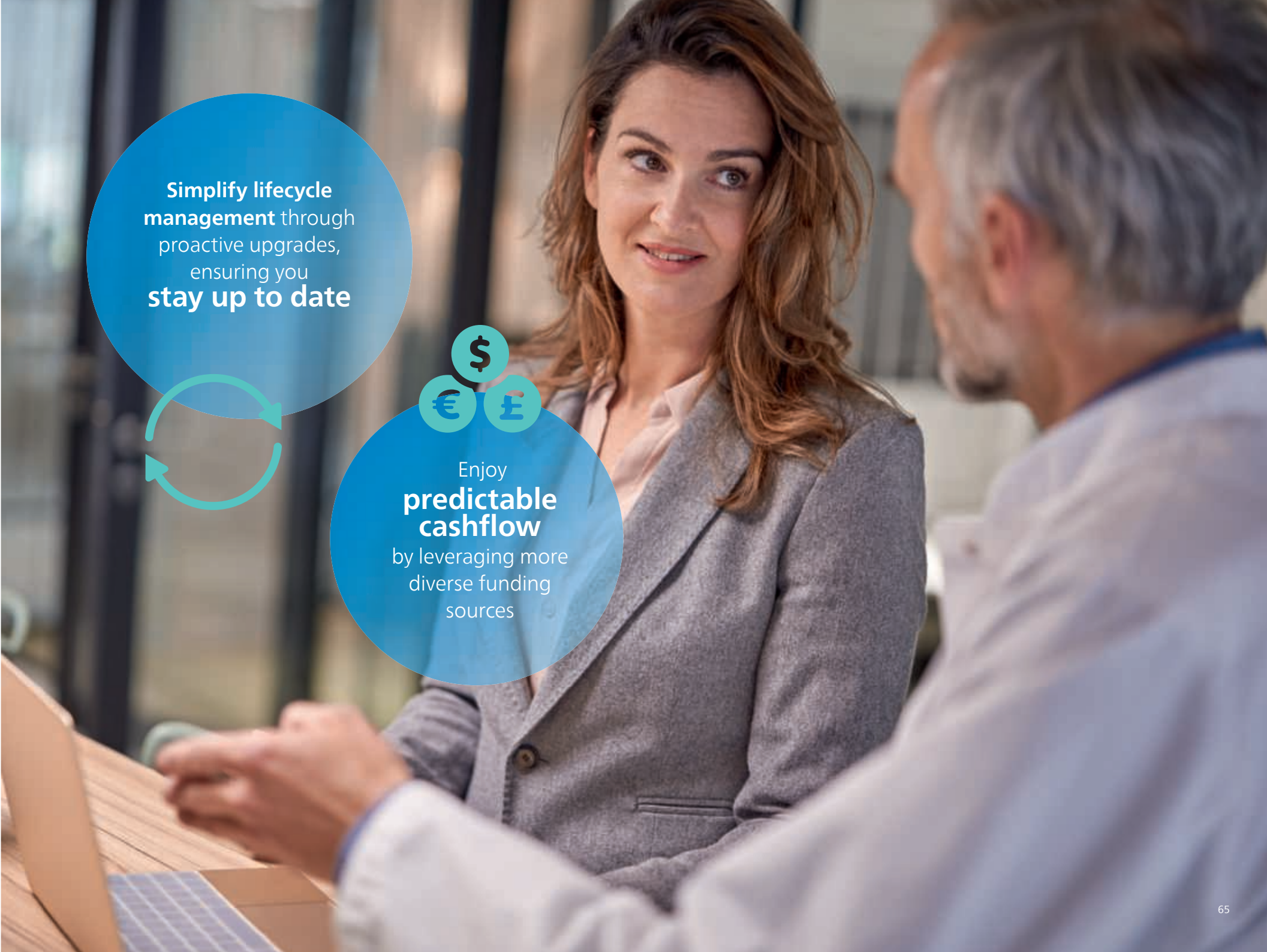
Protecting patient health information requires constant vigilance. To **keep health information secure**, we employ best practices in medical device security. Our multi-layered defense barriers include security policies, procedures, access controls, technical measures, training, and risk assessments. Conveniently keep your MR systems up-to-date through access to the latest cybersecurity patches and mandatory safety fixes.

Simplify lifecycle management through proactive upgrades, boosting clinical capabilities and performance and ensuring you stay up to date. Receive the latest software and hardware technology releases for a fraction of the cost of purchasing them individually. Technology Maximizer, our structured upgrade program, keeps costs predictable and shifts upgrades to your operating budget, saving you from the hassle of capital expense approval. To manage your financial challenges, you need to know whether your healthcare investments are sustainable – and how to get the most from your equipment.

Customized financing solutions for your MR 5300 help you exchange variability and unpredictability for visibility and certainty. Enjoy **predictable cashflow** by leveraging more diverse funding sources. With Philips Capital **EasyStart Deferral Payment Program**[12], you can deliver care now, and start your repayments later. This helps you avoid the burden and risk of upfront expenditures and benefit from transparent, predictable cost structures. As a result, you can manage and plan budgets more efficiently and free up capital that would otherwise be tied up in fixed assets.



EasyStart Deferral Payment Program[12]: Postpone payments for a pre-agreed period and deliver immadiate care to your patients.


Simplify lifecycle management through proactive upgrades, ensuring you **stay up to date**
Enjoy **predictable cashflow** by leveraging more diverse funding sources

References:

1. According to the definition of AI from the EU High-Level Expert Group.
2. Compared to Philip's conventional anterior coils.
3. Compared to SENSE imaging
4. Compared with CoT between routine Brain, Spine, Body, Cardiac, MSK exams in Ingenia 1.5T / Ingenia Ambition 1.5T with dS Anterior and dedicated MSK-coils.
5. Compared to Philips scans without Compressed SENSE.
6. Compared to scanning without ComfortPlus mattress, ComforTone, and Compressed SENSE.
7. Case study in Lubeck, Germany (n=583). The tranquillizer referred to is a valium-based derivative called "Diazepam". Results represent a case study performed at a single location. Results from case studies are not predictive of results in other cases. Results in other cases may vary.
8. Compared to the standard mattress.
9. Compared to scanning without ComforTone.
10. For general information purposes only. Subject to customization, equipment availability, contract and financier approval. Please contact your local Philips representative to learn more.
    *Deferral Payment Program: Moratorium of up to 6 months possible, subject to credit approval on a case-by-case basis; offer valid for a limited time and subject to changes without notice.
11. Based on global Philips-only data.
12. Deferral Payment Program: Moratorium of up to 6 months possible, subject to credit approval on a case-by-case basis; offer valid for a limited time and subject to changes without notice.

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