

PHILIPS

Ingenia Elition X

MR Systems

MEDLIGA
медицинское оборудование

**A revolutionary breakthrough
in diagnostic quality and speed**

A revolutionary breakthrough in diagnostic quality and speed

Every day, healthcare moves forward with innovations in clinical pathways and supporting technologies. For radiology the necessity for high productivity, an improved patient experience while ensuring excellence in imaging can be daunting. The perception is often that MR represents a trade-off between productivity and image quality. The Philips Ingenia Elition X solution offers cutting-edge MR imaging techniques, while setting new directions for clinical research in 3.0T imaging based on gradient- and RF designs.

The Ingenia Elition X delivers on superb image quality, and performs MRI exams up to 50% faster¹. Fast overall exam-time is achieved by improving patient handling setup time at the bore with the touchless guided patient setup, combined with accelerations in both 2D- and 3D scanning. This has been made possible by gradient- and RF designs as well as Compressed SENSE. Furthermore, the Ingenia Elition X offers an immersive audio-visual experience to calm patients and guide them through MR exams. In a study, with the use of the in-bore solution, Herlev Gentofte University Hospital in Denmark managed to reduce the number of rescans by up to 70%², allowing radiologists to handle more patients per day.

¹ Compared to Philips scans without Compressed SENSE

² Based on one clinical customer study performed at Herlev Gentofte University Hospital in Denmark using Ambient Experience and in-bore Connect solution. Results from case studies are not predictive of results in other cases. Results in other cases may vary.

Ingenia Elition X

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Philips scans without Compressed SENSE.



A confident diagnosis

- ▶ Achieve **up to 60%** higher resolution¹
- ▶ Scan your DWI images **up to 30%** faster²
- ▶ Enhance your diagnostic confidence in neuro oncology
- ▶ Unlock new territories in neurofunctional MRI

Up to 50% faster MRI exams¹

- ▶ Virtually equal image quality
- ▶ Add extra patient slots in your schedule
- ▶ Easily fit in unplanned patients
- ▶ Reduce overtime

Patient-centered productivity

- ▶ Reduce operator workload
- ▶ Guided exam set-up
- ▶ Automated workflow
- ▶ Superior image quality

Dramatically improve patient experience

- ▶ Provide an immersive visual experience
- ▶ Guide your patients through the examination
- ▶ Comfort in every detail
- ▶ Reduce acoustic noise

Enhance the value of your MR investment

- ▶ Prevent issues before they occur
- ▶ Protect your MR equipment
- ▶ Standardize your MR fleet
- ▶ Tailored financing solutions

¹ Compared to Philips scans without Compressed SENSE
² Compared to Ingenia 3.0T Omega HP R5.3



A **confident** diagnosis

Ingenia Elition X supports confident diagnosis by innovating on all fronts. The new high-end performance gradient and RF design, combined with innovative imaging solutions such as Compressed SENSE and 3D APT help you reach new levels of precision in anatomical and functional clinical imaging. As a result, you can diagnose the most challenging clinical indications with confidence.

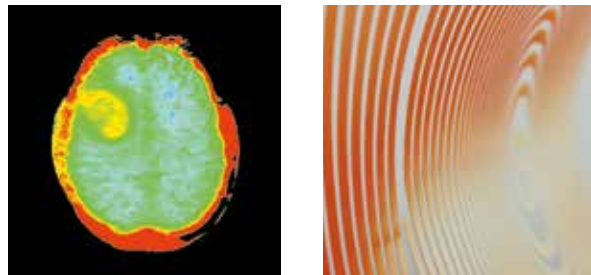
Ingenia Elition X

Up to 60% higher resolution

Fully redesigned gradients combined with Compressed SENSE acceleration technology allow up to 60% higher spatial resolution¹ in the same scan time, revealing more details. For example, speeding up isotropic 3D MSK imaging enables a switch from multi-orientation 2D imaging to a single high-resolution 3D efficient scan. It's precision made efficient.

Up to 30% faster DWI images

Ingenia Elition X's high-performance Vega HP gradients allow the most advanced imaging techniques on a 3.0T system. Diffusion scans are up to 30% faster while appearing sharper². An average of 70% higher contrast resolution can be achieved in diffusion imaging². Due to a TE up to 15% shorter in diffusion imaging, SNR is further improved or used to generate higher resolution with similar scan time². All this makes Ingenia Elition X an ideal choice in clinical routine and oncology applications, even for challenging anatomies.



Enhanced diagnostic confidence in neuro oncology

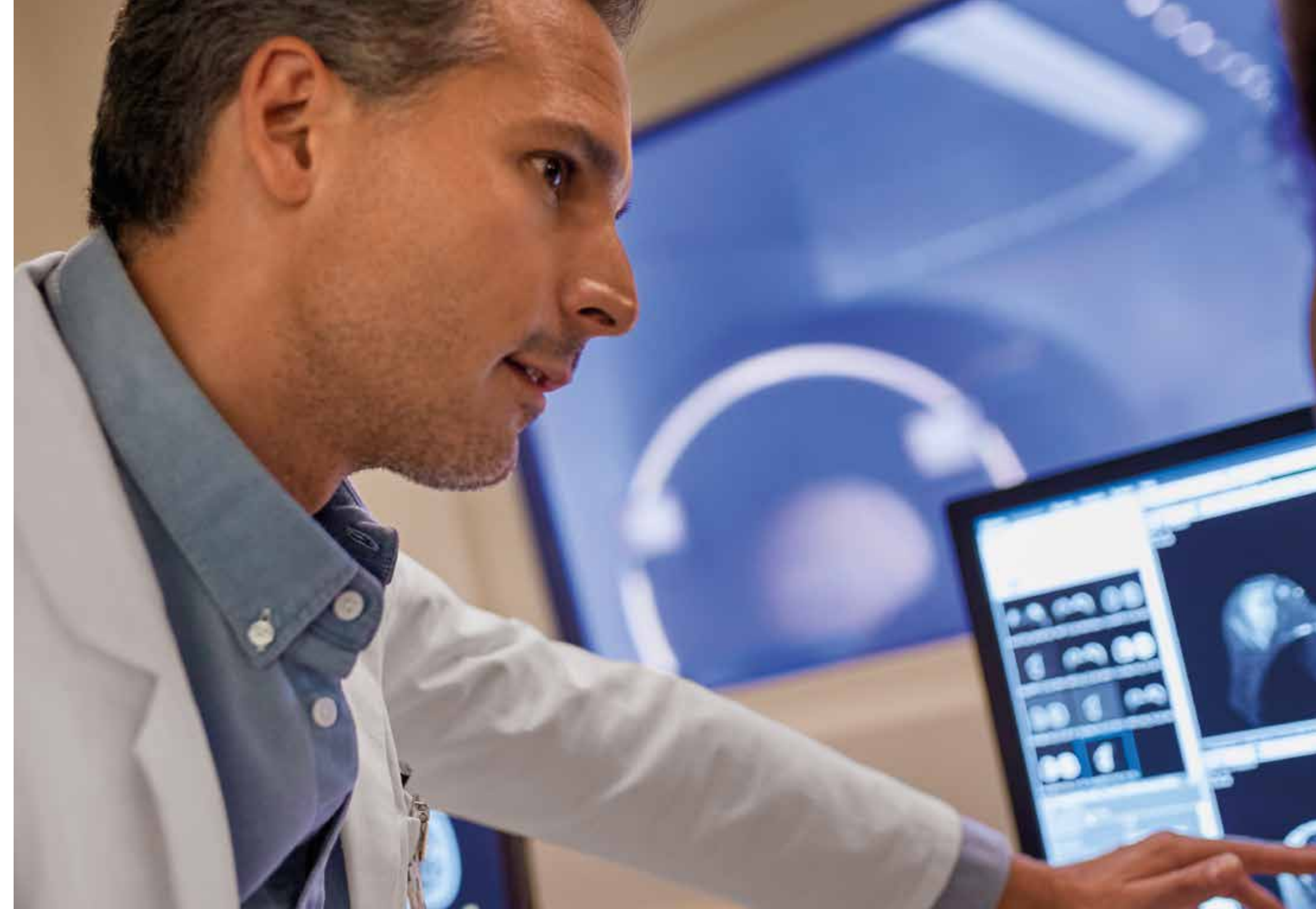
3D APT (Amide Proton Transfer) is a unique, contrast-free, brain MR imaging method that addresses the need for more confident diagnosis in neuro oncology. 3D APT uses the presence of endogenous cellular proteins to produce an MR signal that directly correlates with cell proliferation, an indicator of tumoral activity. 3D APT can support trained medical professionals in differentiating low grade from high grade brain gliomas and, in differentiating tumor progression from treatment effect³.

Unlock new territories in neurofunctional MRI

Ingenia Elition X Vega HP gradients deliver up to 23% higher temporal resolution in fMRI studies as well as 30% shorter TR in diffusion imaging for excellent functional imaging at 3.0T². Ingenia Elition X lets you unlock new territories in the field of neurofunctional MRI, unraveling the connections and functional set-up of the brain. This new level of precision and our next-generation wide bore system can attract an array of new funding with human connectome style protocols, and open up research opportunities.

One processing platform for making your diagnosis

IntelliSpace Portal offers a comprehensive set of over 70 clinical applications in multiple clinical domains, including neurology, cardiology, vascular, oncology, and more. This all-round workstation provides you with the right tools when you need them.

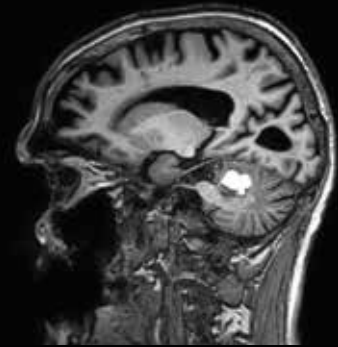


¹ In isotropic 3D MSK VIEW scans, compared to Philips scans without Compressed SENSE.

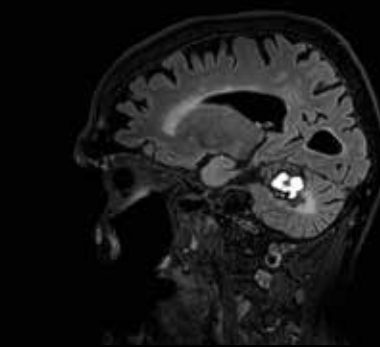
² Compared to Ingenia 3.0T Omega HP R5.3

³ Togao et al. (2014) Neuro-Oncology. Park KJ et al. (2016) Eur Radiol

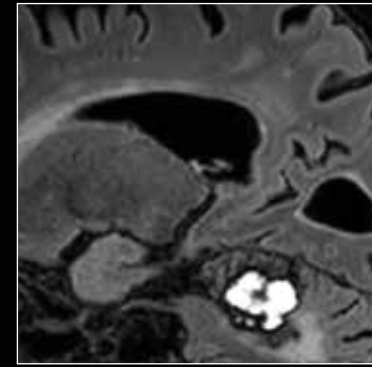
Brain



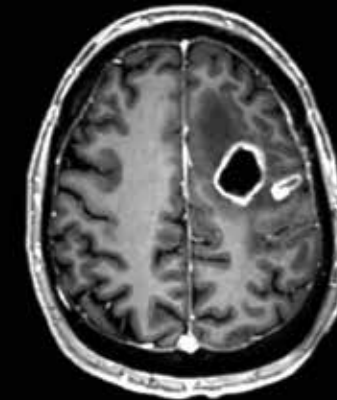
Sagittal 3D T1w TFE, 1.0 x 1.0 x 1.0 mm, 2:26 min
 Courtesy: Technical University Munich, Germany



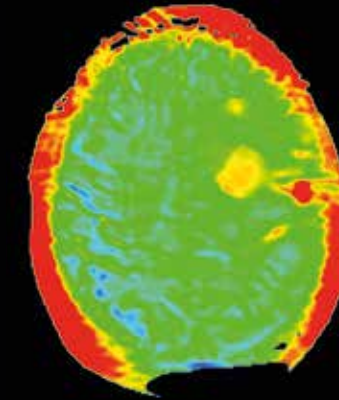
Sagittal 3D FLAIR, 1.0 x 1.0 x 1.0 mm, 3:55 min
 Courtesy: Technical University Munich, Germany



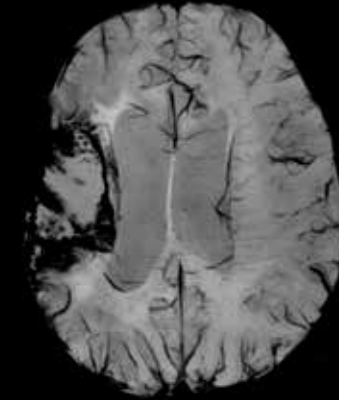
Brain



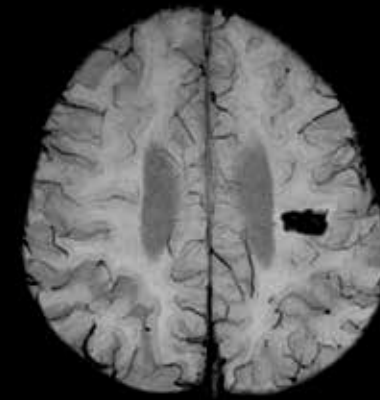
Axial 3D T1w TFE, 1.0 x 1.0 x 1.0 mm, 2:26 min
 Courtesy: Technical University Munich, Germany



Axial 3D APT, 1.8 x 1.8 x 6.0 mm, 3:45 min
 Courtesy: Technical University Munich, Germany



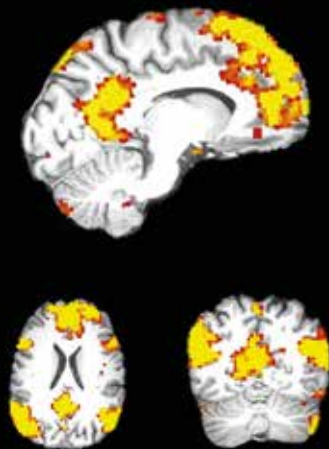
Axial SWI, 0.7 x 0.7 x 1.5mm, 3:00 min
 Courtesy: Technical University Munich, Germany



Axial SWI, 0.6 x 0.6 x 2.0mm, 3:00 min
 Courtesy: Kumamoto Chuo Hospital, Japan

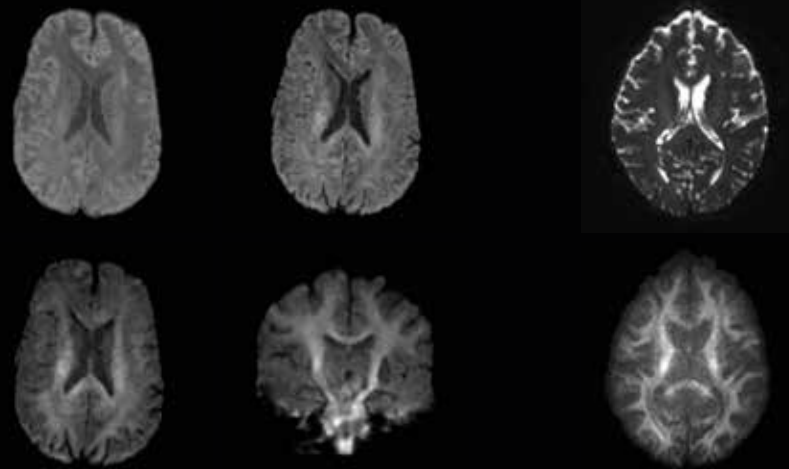
NeuroScience

Resting State fMRI - ABCD research protocol

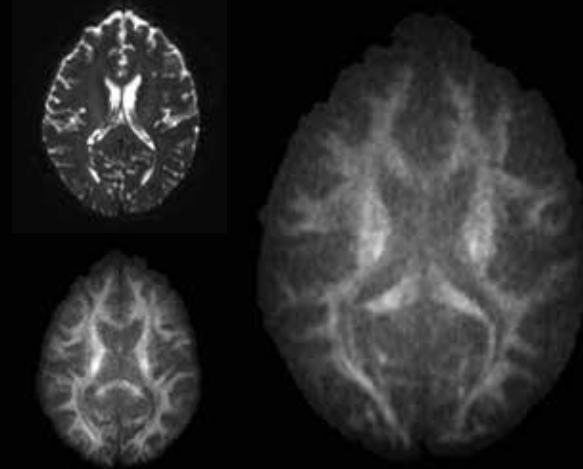


2.6 x 2.6 x 2.8 mm, 17:00 min
 TR 700 ms, MultiBand SENSE 4
 Courtesy: Academic Medical Center, Amsterdam, The Netherlands

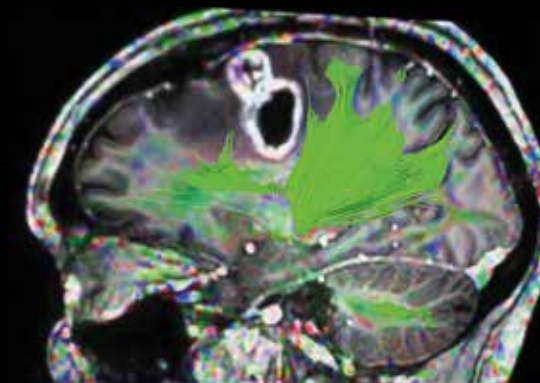
dMRI protocol - ABCD research protocol



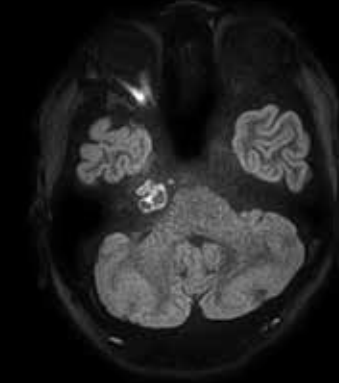
b1000 / b2000 / b3000 / b3000 reformat
 17 x 17 x 17 mm MultiBand SENSE 4
 TE 97 ms, 102 directions, 15:00 min



Axial DWI, 15 x 15 x 4.0 mm
 b0, 1:10 min / b5000, 2:43 min / b15000, 4:40 min



DTI 128 directions, 2.0 x 2.0 x 2.0 mm, 5:00 min
 Courtesy: Technical University Munich, Germany

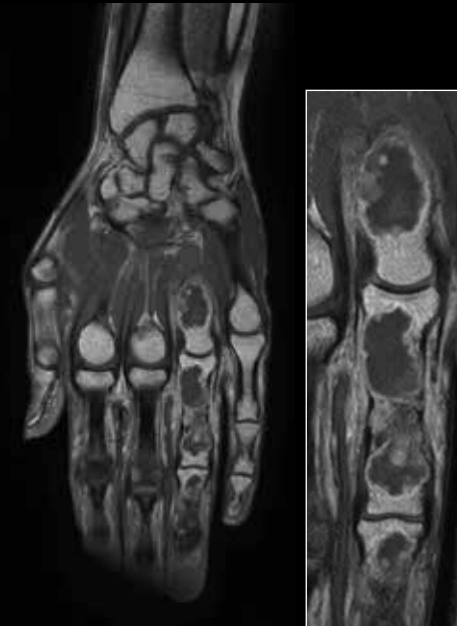


Axial DWI TSE XD (b1000)
 1.1 x 1.1 x 3.0 mm, 3:00 min
 Courtesy: Kumamoto Chuo Hospital, Japan

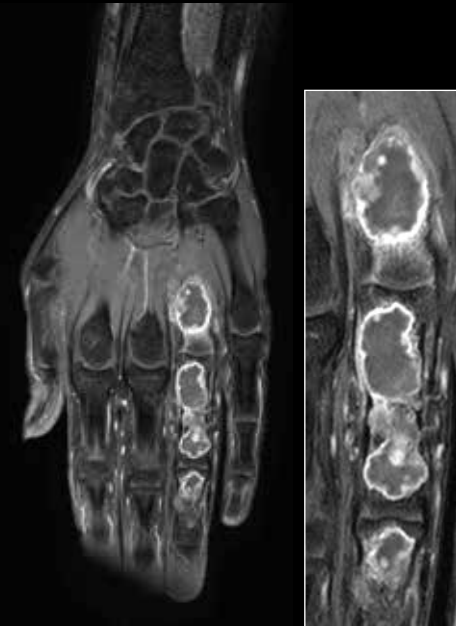


MRA CoW (MIP)
 0.6 x 1.0 x 1.4 mm, 2:39 min
 Courtesy: Kumamoto Chuo Hospital, Japan

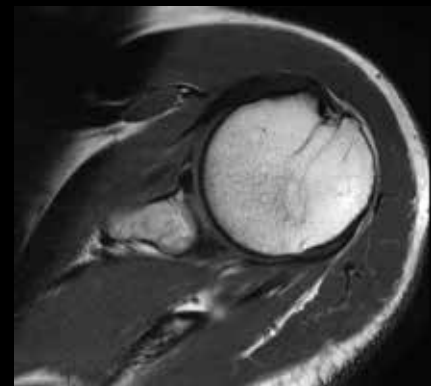
MSK



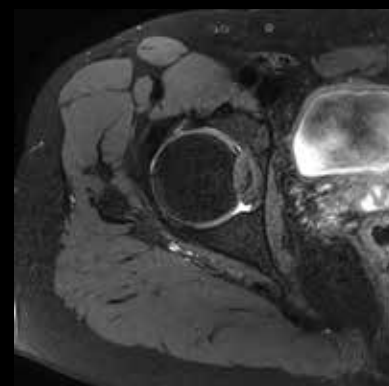
Coronal T1w TSE mDIXON XD with gado (In Phase + Water only),
0.4 x 0.4 x 2.0 mm, 3:46 min
Courtesy: Academic Medical Center, Amsterdam, The Netherlands



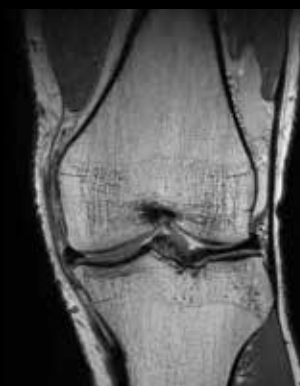
Sagittal PDw TSE
0.18 x 0.18 x 1.5 mm, 5:05 min



Axial PDw TSE
0.23 x 0.35 x 2.5 mm, 1:53 min



Axial 3D PDw SPAIR
0.8 x 0.8 x 1.0 mm, 6:54 min



Coronal PDw TSE
0.3 x 0.3 x 1.5 mm, 5:05 min

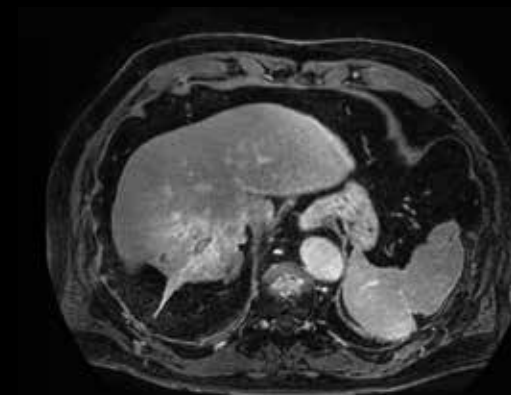
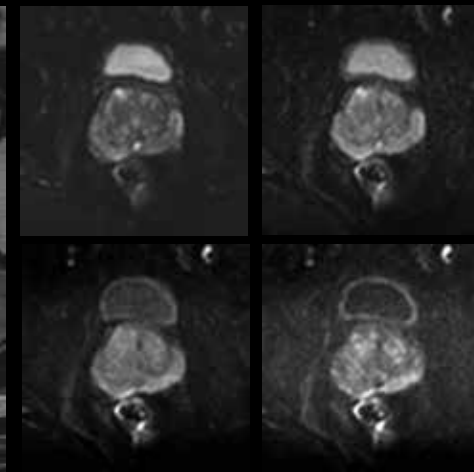


Sagittal PDw SPAIR
0.3 x 0.4 x 2.5 mm, 4:06 min

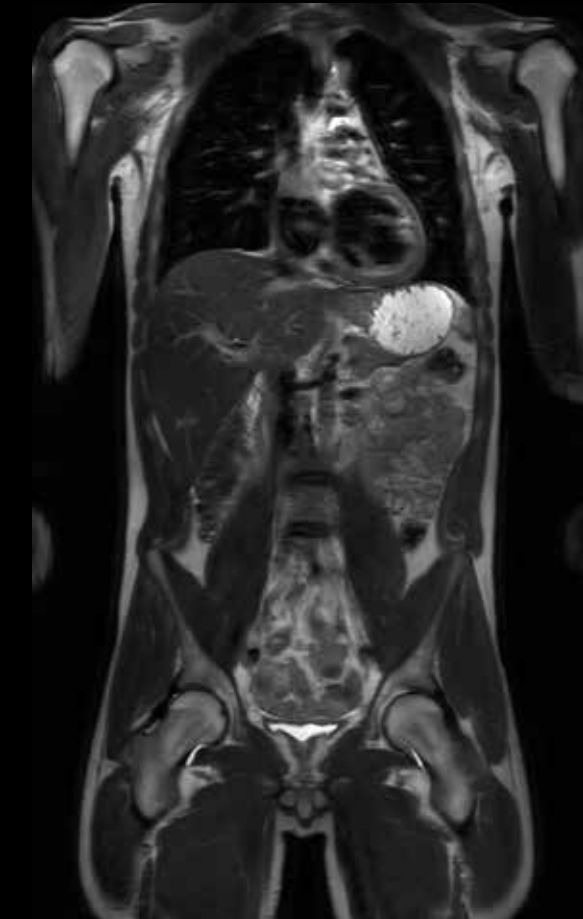
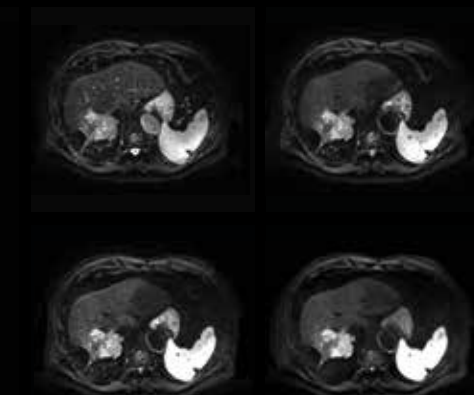
Body



Axial T2w TSE, 0.46 x 0.57 x 3.0 mm, 5:07 min
Axial DWI b0 / b500 / b1000 / b1400, 2.5 x 2.4 x 3.0 mm, 3:44 min
Courtesy: Technical University Munich, Germany



Axial T1w 3D mDIXON, 1.5 x 1.5 x 2.0 mm, 2:50 min
Axial DWI b0 / b50 / b300 / b600, 3.0 x 3.0 x 4.0 mm, 4:03 min
Courtesy: Technical University Munich, Germany



Coronal T2w TSE – Two stations
1.4 x 1.6 x 5.0 mm, 1:48 min /station



Ingenia Eitton X

Up to 50% faster MRI exams with virtually equal image quality¹

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.

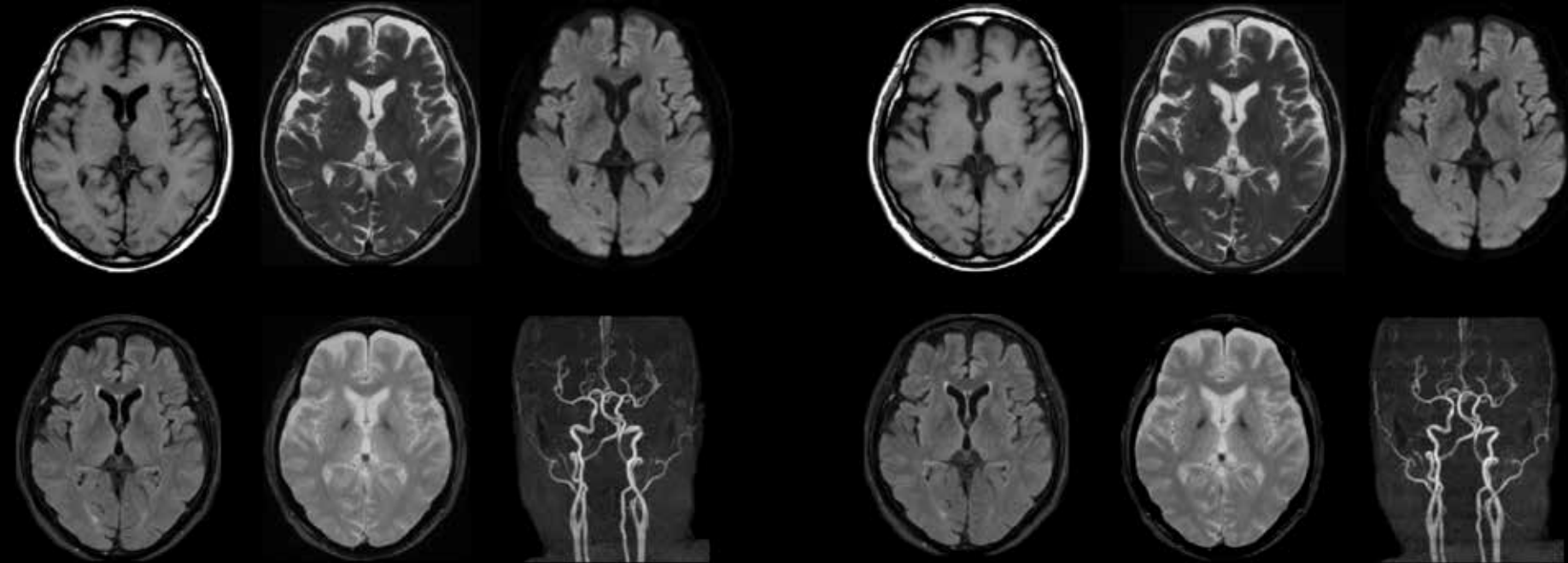
That's exactly what Compressed SENSE can do for your MR department. It accelerates your existing MR scans by up to 50% with virtually equal image quality, frees up time to improve your patient experience and can provide up to 60% higher resolution to enhance diagnostic confidence.¹

Compressed SENSE is suitable for all anatomies and can be used for all anatomical contrasts, in both 2D- and 3D scanning.

¹ Compared to Philips scans without Compressed SENSE

Up to 50% faster MRI exams with virtually equal IQ¹

Brain ExamCard



Total Exam time **16:52 min**

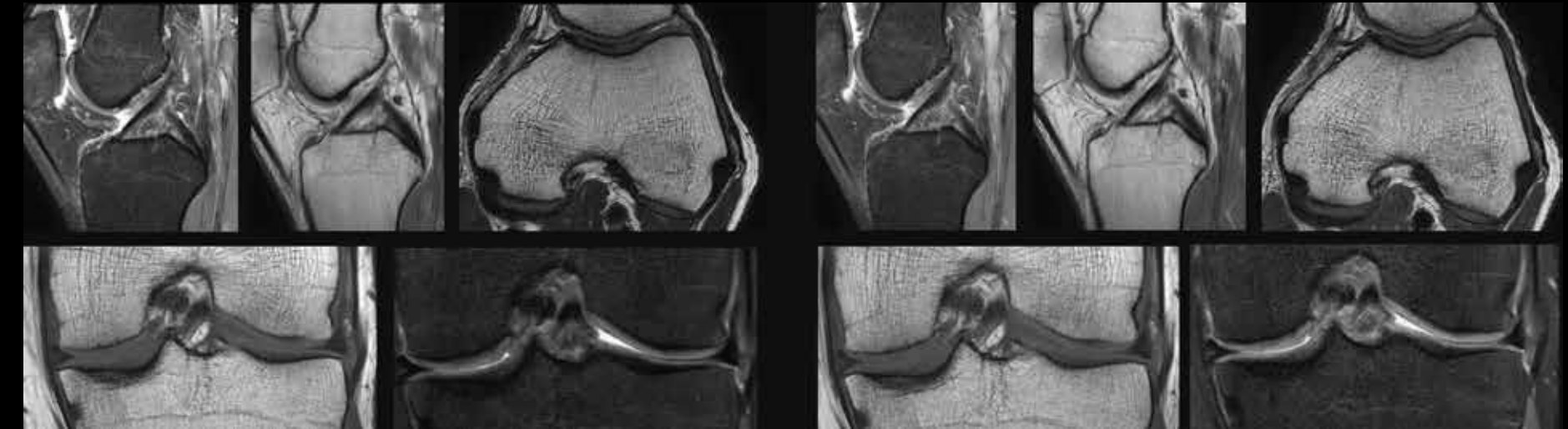
T1w SE	0.9 x 1.3 x 5.0 mm	2:35 min
T2w TSE	0.6 x 0.7 x 5.0 mm	2:04 min
DWI (b1000)	1.8 x 1.4 x 5.0 mm	0:45 min
T2w FLAIR	1.0 x 1.2 x 5.0 mm	2:12 min
T2w FFE	0.9 x 1.1 x 5.0 mm	1:15 min
3D Inflow	0.7 x 1.3 x 1.4 mm	7:11 min

Total Exam time **9:06 min**

Compressed SENSE

T1w SE	0.9 x 1.3 x 5.0 mm	1:14 min
T2w TSE	0.6 x 0.7 x 5.0 mm	1:30 min
DWI (b1000)	1.8 x 1.4 x 5.0 mm	0:45 min
T2w FLAIR	1.0 x 1.2 x 5.0 mm	1:30 min
T2w FFE	0.9 x 1.1 x 5.0 mm	0:49 min
3D Inflow	0.7 x 1.3 x 1.4 mm	3:06 min

Knee ExamCard



Total Exam time **17:32 min**

PDw SPAIR sag	0.4 x 0.4 x 2.5 mm	4:24 min
PDw TSE sag	0.3 x 0.4 x 1.5 mm	3:55 min
T2w TSE ax	0.4 x 0.4 x 1.5 mm	3:49 min
T1w TSE cor	0.4 x 0.4 x 1.5 mm	2:23 min
PDw SPAIR cor	0.4 x 0.5 x 2.5 mm	3:01 min

Total Exam time **10:16 min**

Compressed SENSE

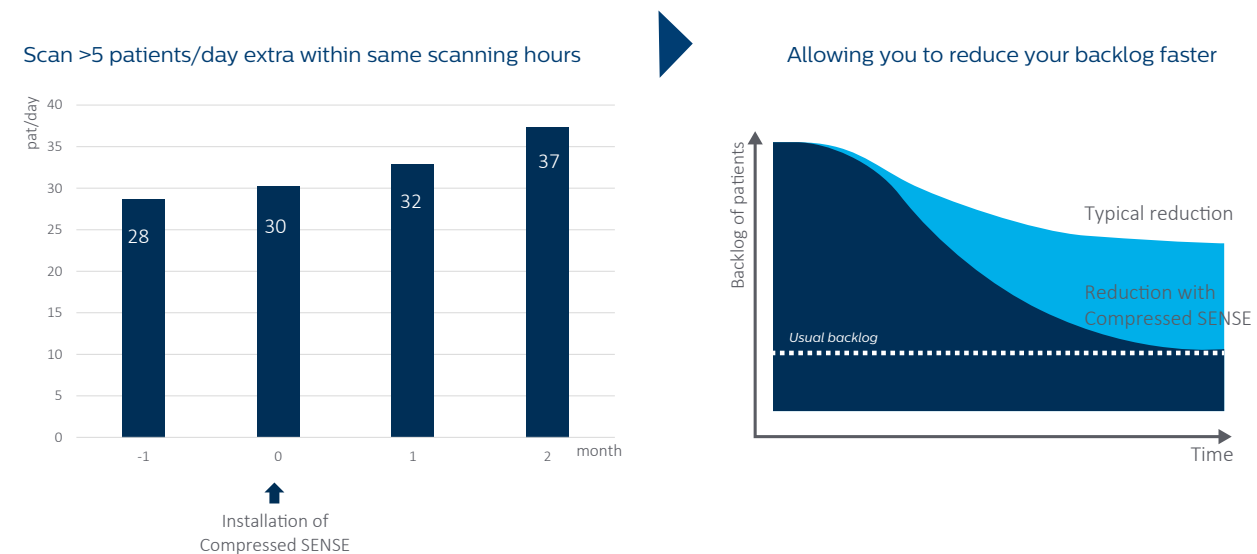
PDw SPAIR sag	0.4 x 0.4 x 2.5 mm	3:02 min
PDw TSE sag	0.3 x 0.4 x 1.5 mm	2:20 min
T2w TSE ax	0.4 x 0.4 x 1.5 mm	1:52 min
T1w TSE cor	0.4 x 0.4 x 1.5 mm	1:13 min
PDw SPAIR cor	0.4 x 0.5 x 2.5 mm	1:49 min

¹ Compared to Philips scans without Compressed SENSE. Results from case studies are not predictive of results in other cases. Results in other cases may vary.

Results from case studies are not predictive of results in other cases. Results in other cases may vary.

Add extra patient slots to your daily MRI schedule

Many radiology departments and imaging centers are looking for ways to increase the utilization of their MR equipment to meet the rising demand for MRI services. A full MRI exam performed with Compressed SENSE, for example, can save minutes compared to a conventional MRI exam. This could free up one or two extra exam slots in your daily schedule, which can result in much higher productivity and shorter waitlists without adding more operator hours.



Radiologie Dr Wagner in Gottingen, Germany can accommodate > 5 more patients per day, within the same scanning hours, after the introduction of Compressed SENSE.

Results from case studies are not predictive of results in other cases. Results in other cases may vary.

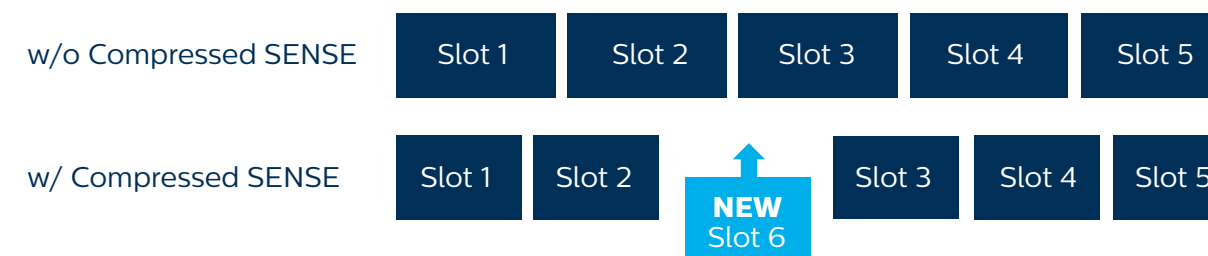
Easily fit in unplanned patients

Do unscheduled patients disrupt your daily schedule and put extra stress on your staff? With Compressed SENSE you can create a buffer to easily handle emergency cases or urgent patients that are referred on the same day. This extra capacity can help you serve patients and referring physicians faster and make daily workflow go smoother.

“We can now provide a more flexible and faster MRI service to our patients and referring physicians. For instance, when a referring physician is requesting it, we can now quite smoothly insert an additional MRI examination without previous appointment on the same day.”

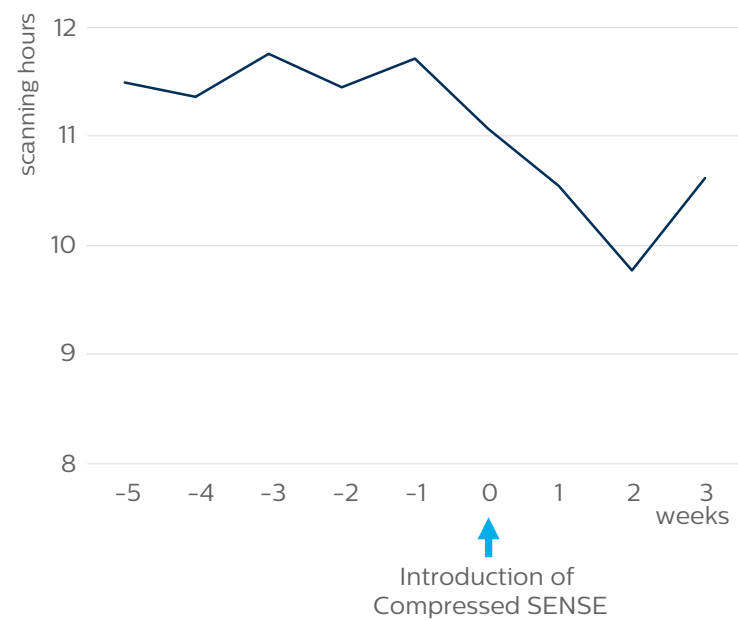
Hideki Koyasu, MD, Neurosurgical Clinic in Kanagawa, Japan

Easily fit in unplanned patients



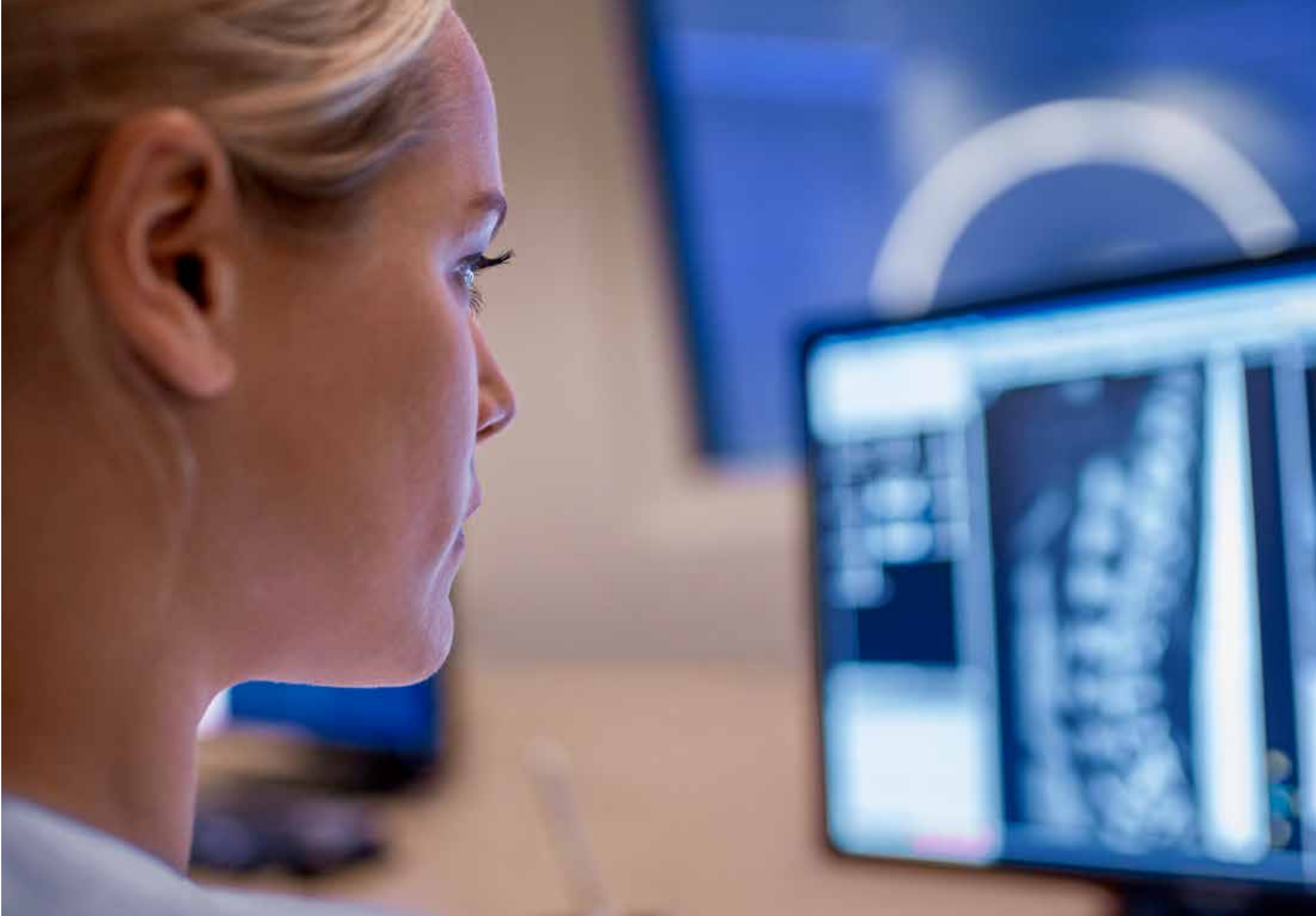
Reduction in overtime, while maintaining same patient throughput per day

Having to work overtime is a recurring issue for many radiology departments and imaging centers that can impact staff satisfaction and run-up operational costs. The stress caused by heavy workloads and overtime hours greatly contribute to burnout among radiology technologists, not to mention long-term mental and physical health issues.¹ By reducing MRI scan times and improving scheduling flexibility, Compressed SENSE helps patients and staff to get home on time. This can improve the experience for all involved.



ComputerTomography Institut in Innsbruck, Austria has been able to reduce overtime by more than one hour, keeping the same patient throughput per day, after the introduction of Compressed SENSE.

¹ Vinu, Raj. Occupational stress and Radiography. NCBI. Nov-Dec 2006. <https://www.ncbi.nlm.nih.gov/pubmed/17119177>
Results from case studies are not predictive of results in other cases. Results in other cases may vary.



Patient-centered productivity

With a growth in the elderly population and constant demands to do more with less, the pressure on healthcare providers is immense. This pressure is also evident in radiology departments and imaging centers. The increasing use of MR to diagnose a variety of conditions and illnesses has led to demands for greater efficiency, even as departments try to manage a shortage of MR operators and variability in staff expertise. Too often, it seems that productivity is at odds with giving patients the time and attention they desire.

With SmartWorkflow, you can achieve high productivity while enabling your staff to focus on patients. It reduces and simplifies the number of steps needed in a conventional MR exam workflow, using technology to guide and coach where required, and automate where possible. An end-to-end workflow solution that directly boosts efficiency through reduced variability and task automation, while supporting a better patient and staff experience, resulting in patient-centered productivity.





Auto patient centering
Put your patients at ease, while manual steps in the workflow are automated



Touchless respiratory-triggering
Remove the hassle of respiratory belt placement while providing superior image quality¹



In-room exam start
Increase productivity and free up time for other tasks²



Guided exam set-up
A virtual coach guiding exam set-up; allowing your staff to focus on the patient

SmartWorkflow in the exam room

Guided exam set-up and automation, to increase productivity and free up time to focus on the patient

In the exam room, SmartWorkflow provides guided exam set-up and automation, to increase productivity and free up time to focus on the patient. Even new operators who have never worked with the scanner can proceed with confidence. Allow your staff to focus less on technology, and fully engage with patients. Enjoy reduced variability in patient positioning and quality of respiratory triggering, supporting consistent, high-quality studies. SmartWorkflow decreases patient set-up to less than a minute³, and allows operators to initiate the start of the exam with a single touch directly at the MR scanner, starting immediately after closing the door.

“The entire workflow is smooth: Patient positioning and set-up; 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.”

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

¹ Compared to respiratory belt based signal. Requires an unobstructed line-of-sight.
² With VitalScreen, initiating the exam at the patient side.
³ Based on in-house testing.

SmartWorkflow in the control room

Reduce operator workload, with standardized results and increased throughput

In the control room, SmartWorkflow automates exam planning, scanning and processing, improving staff experience and driving efficiency by freeing time to check imaging results or prepare for the next exam. Decreased exam variability results in imaging excellence supporting confident diagnoses while automated patient coaching enhances patient experience. Furthermore, with SmartWorkflow you can confidently offer imaging to patients with MR Conditional implants. The guided and automated workflow supports the staff, which gives them more time for the patient, resulting in patient-centered productivity.

“ 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

Ingenia Elition X



Automated patient coaching

Reduce your workload while patients are put at ease and guided through the exam

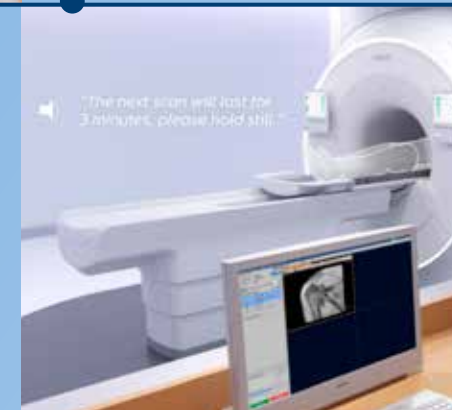


Confidence for MR Conditional implants

Increase efficiency while providing access to patients with MR Conditional implants²

Automated planning and scanning

Standardize results with reduced variability and increased efficiency¹



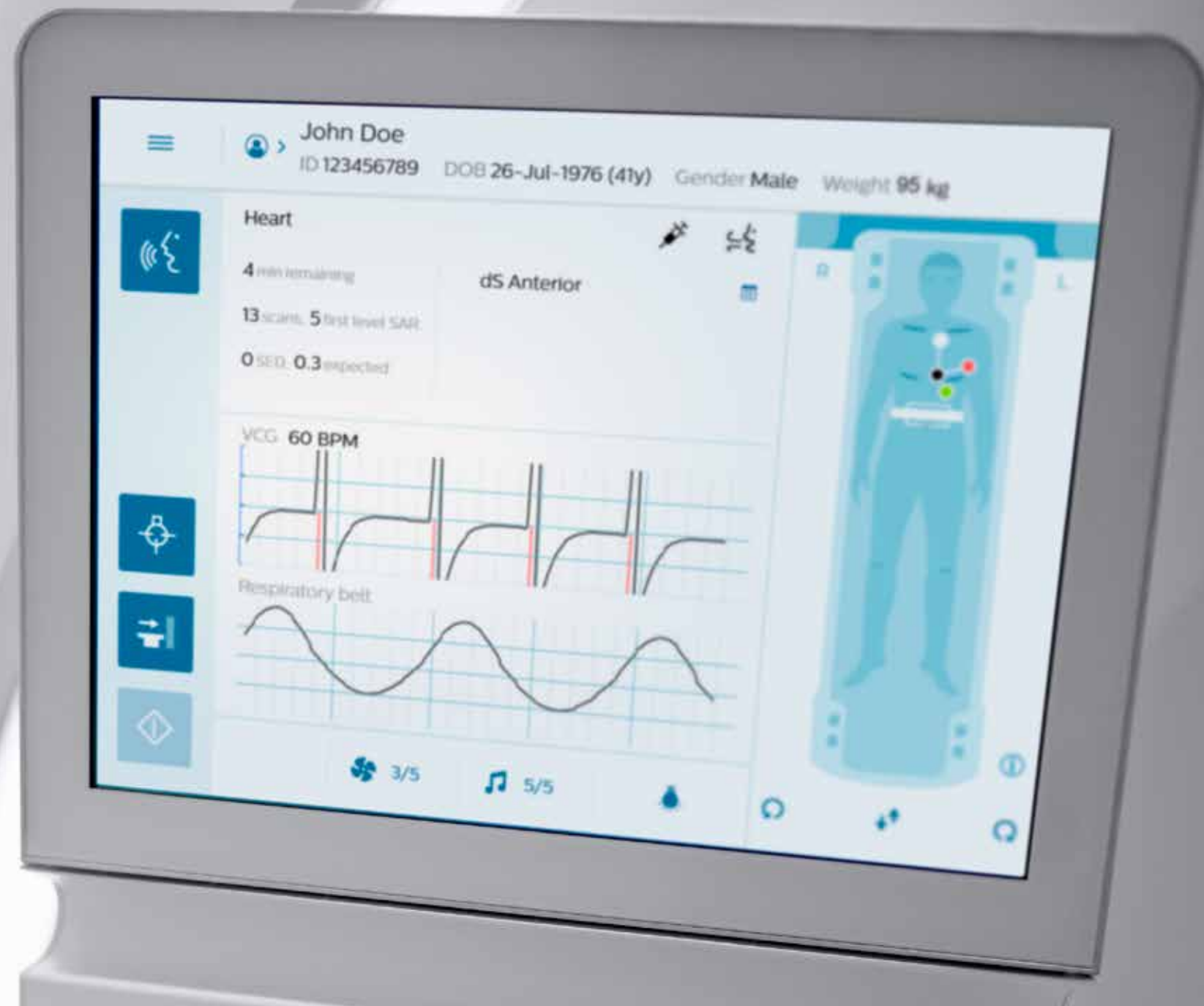
Automated post-processing

Remove the burden of repetitive post-processing to support increased throughput¹



¹ With SmartExam, automated geometry planning and execution of complete MR exams.

² With ScanWise Implant, providing step-by-step guidance to enter the condition values as specified by the implant manufacturer.



A virtual coach **guiding exam set-up**

Increase staff confidence and speed up patient set-up through automated real-time guidance and insights on the details of the current patient study. Achieve high quality results, independent from staff's expertise level. VitalScreen provides guidance at your staff's fingertips. Two 12-inch interactive touchscreens on the scanner provide coaching and visual guidance on recommended patient position, study laterality, coil and accessory placement. Moreover, feedback is provided on important exam details, including physiology signals (both VCG and respiratory) and – if applicable- contrast usage and breath- hold guidance.

Put your patients at ease, while manual steps in the workflow are automated

Free up your staff from monotonous, manual steps and enable them to focus on the patient through automatic placement of the region of interest in the scanner iso-center. The manual use of a laser light visor for iso-center positioning has become obsolete. VitalScreen automatically detects landmarks for selected anatomies and places the region of interest in the iso-center of the magnet. Once the patient is positioned on the table, only the push of a button is required to position the patient in the center of the bore.

Increase productivity and free up time for other tasks

Start exams as soon as possible, eliminating extra steps for your staff and decreasing the time the patient has to spent in the magnet, resulting in a more positive patient experience. VitalScreen allows staff to initiate the exam with a single touch of a button at the patient side. The exam starts immediately after the operator has closed the exam room door, so no time is wasted.

Continuous and robust respiratory signal providing **superior image quality**

Relieve your staff from the burden of positioning – and re-positioning – a respiratory belt. Positioning a belt shifts the operator's focus from the patient to the technology at a moment when it is critical that the patient is comfortable and reassured. Enjoy optical sensing and AI¹ to automatically detect patient respiratory patterns. VitalEye touchless patient sensing provides a fast detection of patient's breathing without any operator interaction. With VitalEye, the technologist no longer needs to set up an old-fashioned respiratory belt but receives a continuous and robust respiratory signal without any interaction. This revolution in touchless patient sensing helps your staff to keep a caring eye on your patient. The quality of the physiology signal detected by VitalEye is better than a belt-based approach providing superior image quality, for a broad range of patient sizes.

“It always works, and it's always there.”

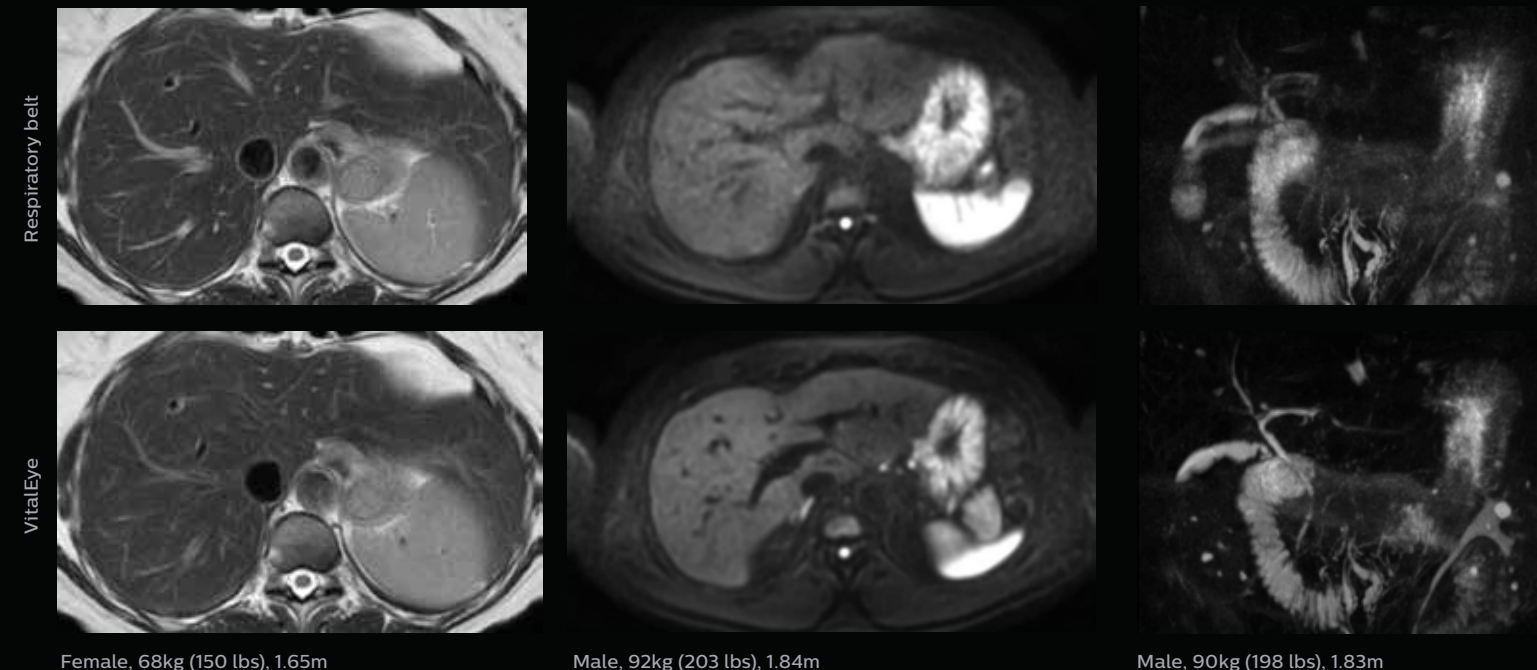
MR operator, University of Bonn, Germany



¹ AI stands for Artificial Intelligence, according to the definition of AI from the EU High-Level Expert Group.

Touchless patient sensing

Superior image quality with VitalEye¹, consistently



¹ Compared to Philips belt-based signal. Requires an unobstructed line of sight. Results from case studies are not predictive of results in other cases. Results in other cases may vary.



Ingenia Elition X

Dramatically improve the **patient experience**

Your patients are at the heart of Ingenia Elition – which includes an MR experience that enhances comfort and compliance. With up to 80% acoustic noise reduction¹, voice guidance, Immersive in-bore visuals and a comfortable table mattress, Ingenia Elition helps your patients feel at ease, resulting in smooth, fast exams.

¹ Compared to scanning without ComforTone.

Provide an **immersive visual experience**

Your patients' scanning experience is significantly enhanced with Ingenia Elition. Designed to offer a relaxing sensory experience, Ambient Experience provides positive distractions for patients by incorporating dynamic lighting, projection and sound, contributing to a positive, engaging environment to benefit quality of care. From the moment a patient is moved into the scanner (the point at which people report the most stress), through completion of the scan, the In-Bore Connect solution can help patients to relax, follow directions and minimize motion. In a study, conducted using our in-bore solution, Herlev Gentofte University Hospital in Denmark managed to reduce the number of rescans by up to 70%¹. A case study at Radiologisches Zentrum am Kaufhof, Lübeck, Germany showed that the number of patients needing sedation was reduced by 80%².

“We’ve had a lot of patients provide compliments on the environment. We have the Ambient solution in there that creates a soothing environment.”

Carol Melvin, MD, Miami Cardiac and Vascular Institute

¹ Compared to the average of the other 5 Philips Ingenia MR scanners without Ambient Experience and In-Bore Connect. Results from case studies are not predictive of results in other cases. Results in other cases may vary.

² Results from case studies are not predictive of results in other cases. Results in other cases may vary. *The tranquilizer referred to is a valium-based derivative called “Diazepam”.





Ingenia Elition X

Comfort in every detail

Because no detail is too small when it comes to helping your patients feel comfortable, Ingenia Elition includes the ComfortPlus mattress. On average, 90% of patients in severe discomfort find it easy to lie still on the ComfortPlus mattress. Overall comfort for this group of patients can increase by up to 36%.¹

Put your patients at ease and guide them through the examination

Be confident that your patients know what to do and what to expect through automated, consistent instructions, relieving some of the anxiety of an MR exam. AutoVoice supports exam compliance by guiding your patients through the MR examination. Including automatically announcing scan duration and table movements in your choice of 30 languages and dialects. In addition, providing breath hold instructions, with either manual timing or timing synchronized to fit the patient's respiratory cycle.

“The most frequent comment we are getting from our technologists, is that for patients who have had scans on other Philips scanners, this new mattress is really significantly more comfortable.”

Dr. Oswood, Hennepin County Medical Center

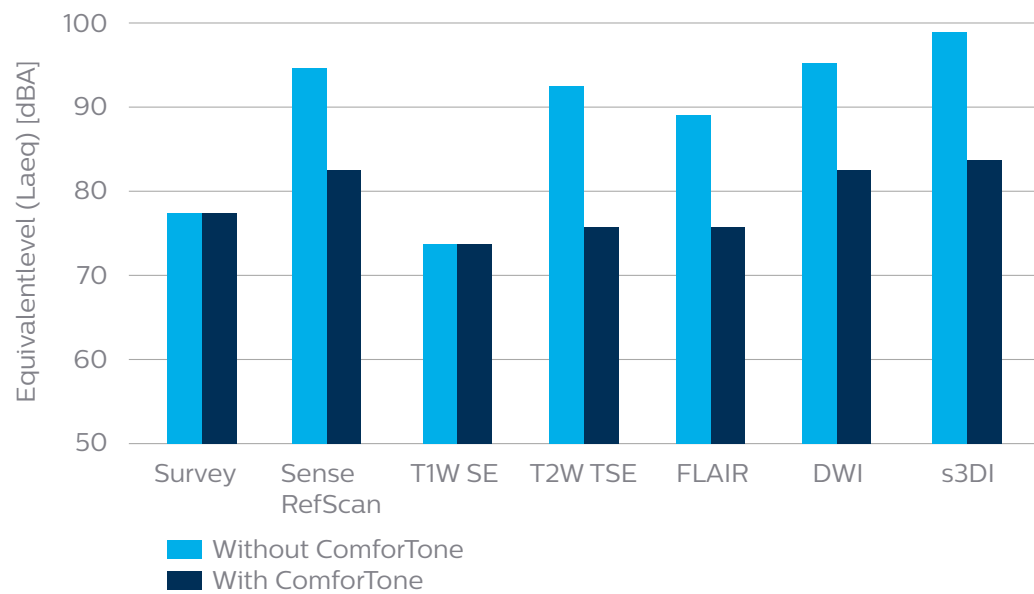
“AutoVoice enables us to shift our focus from having to manually give the breathing instructions to the patient to now planning the exam.”

Carlos Avila, RT, Miami Cardiac and Vascular Institute, USA

¹ Compared to using a standard mattress.

Reduce acoustic noise for your patient

No matter how short the exam, a noisy MR scanner can make it seem unbearably long. The Philips unique ComforTone solution achieves up to 80% reduction in acoustic noise¹ with similar image quality and contrast within the same time slot. You can use ComforTone in routine exams such as brain, spine and MSK. Thanks to our ready-to-use ExamCard protocols, ComforTone is simple to implement and use, requiring just a few clicks to get started.




¹ Compared to scanning without ComforTone
Results from case studies are not predictive of results in other cases. Results in other cases may vary.



Enhance the value of your MR investment

Imaging is both a clinical and an economic challenge. You need to manage a host of financial obligations and opportunities, all while keeping your focus on your patients. We can help, by putting together a package of offerings that keep total cost of ownership in check while providing you with tailored solutions for maintenance, fleet management, cybersecurity, education and financing.




500 
parameters are
monitored on an MR

+90,000
remote connections across
25,000
healthcare facilities in
139
countries³



25%
connected Philips
MR service cases² are
resolved before they
cause downtime, due
to proactive monitoring

>50% 
of MR service cases
are resolved remotely¹



Prevent issues before they occur

Scanner downtime can disrupt your schedule and delay patient care. We offer maintenance agreements that are suited to your needs, enabled by the latest service innovations and including an uptime guarantee. We 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.¹ Our Philips-qualified service experts can also proactively resolve issues on-site, fix your system before it causes any disruption, and provide reliable and knowledgeable support.²

Protecting your MR equipment from patient data breaches and cyber-attacks

Protecting patient health information requires constant vigilance. To keep health information and medical devices 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. The Technology Maximizer Plus subscription program conveniently keeps your MR systems up-to-date through access to the latest cybersecurity patches and mandatory safety fixes via regular and ongoing software upgrades and hardware refreshes.

¹ For the Philips diagnostic imaging installed base

² Based on data collected between July '18 and July '19 on all service events registered on remotely connected Philips MR systems [globally]. Downtime does not include time due to planned maintenance ³ Based on global Philips only data.

¹ Based on global Philips-only data.

² Requires minimum maintenance contract. Conditions apply. Offerings are available in selected countries and for selected products only.

Standardize your MR fleet at a fixed annual cost

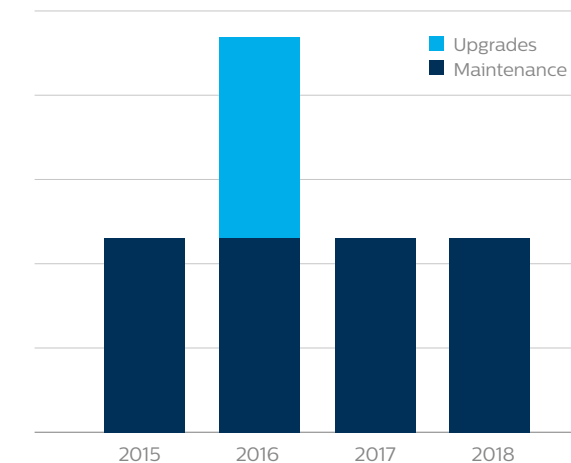
If you own more than one Philips scanner, standardizing under the same software release can enhance efficiency through one user interface for operators to learn and use the same ExamCards across multiple scanners. The Ingenia Elition is delivered with the latest available software release, providing a perfect opportunity to upgrade your fleet to this release and enter into a Technology Maximizer Plus subscription program.¹ Under the program, your Ingenia Elition and the rest of your fleet will receive software updates whenever available, giving you the benefits of software improvements and cyber-security advances while maintaining all your MR systems on the same level.

“It was consistently a challenge to plan for annual upgrades and predict their costs. Thanks to Technology Maximizer, we can now continue to have the latest versions of software for all of our MRI systems.”

Eliseo Vañó Galván, MD, Cardiovascular radiologist, Chairman of the CT & MR Department at Hospital Nuestra Señora del Rosario, Madrid, Spain

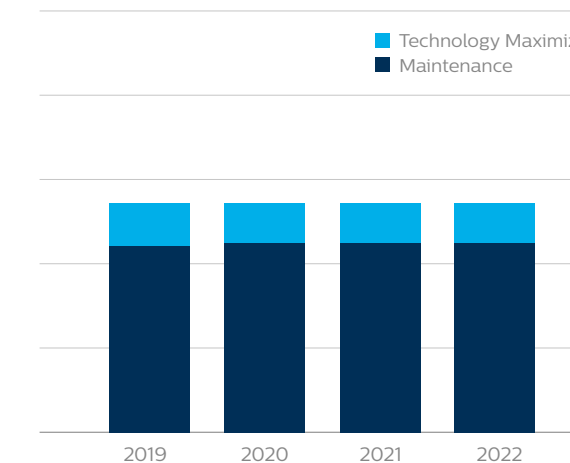
¹ Check for compatibility with your Philips representative.

Cost of maintenance and upgrades in **previous years**



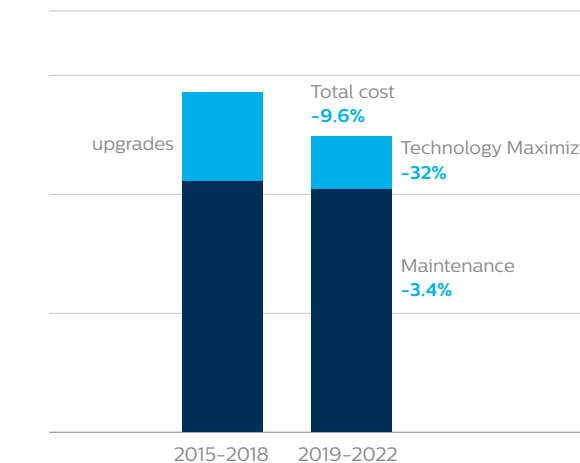
- Large variation in annual cost
- Upgrading once in 4 years

Cost of maintenance and upgrades with **Technology Maximizer program**



- ✓ Fixed annual cost
- ✓ Yearly updating

Reduction in accumulated cost of maintenance and upgrades over 4 years
Before vs with Technology Maximizer



- ✓ Technology Maximizer saves cost and provides more frequent updates

Achieve excellence through **ongoing education**

Delivering consistent healthcare day-in and day-out is a challenge, particularly when faced with staff shortages and the need to cross-train department personnel. Our Philips MR Healthcare Education can help unlock the full potential of your staff, technology, and organization through innovative and meaningful healthcare education, delivered on-site or as e-Learning. For example, the Philips MR Technologist Development Program at Burjeel Hospital for Advanced Surgery (BHAS), a leading orthopedic and joint care center in Dubai, UAE, resulted in an average of 30% improvement in image quality across all procedures.¹ Team knowledge increased 30–40% in the key areas of patient care¹, imaging procedures, data acquisition and physics of image formation. The comprehensive, clinically-relevant courses, programs, and learning paths are designed to support clinical excellence, enhance operational efficiency and provide high-quality patient care.

Tailored financing solutions in line with your cash flow needs, budgets, and business strategy

Providing access to best-in-class healthcare is a leading priority for facilities like yours around the globe. At the same time, financial security and protecting your assets over time are also high on the agenda. To manage your financial challenges, you need to know whether your healthcare investments are sustainable – and how to get the most from your equipment. Financing your Ingenia Elition helps you exchange variability and unpredictability for visibility and certainty. 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.

¹ Results from case studies are not predictive of results in other cases. Results in other cases may vary





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