At the nexus of treatment innovation

nexaris Angio-MR-CT

A nexaris **Therapy Suite**



ARTIS phene

GETINGE 🛠

Partner of Siemens Healthineers for Surgery

Innovation

siemens.com/nexaris-angio-mr-ct

Expanding precision medicine

Image-guided therapy relies on the versatility of medical imaging to improve the localization and targeting of diseased areas and control the quality of results. Over the past few years, image-guided surgery and image-guided minimally invasive interventions have emerged as a replacement for some invasive approaches.

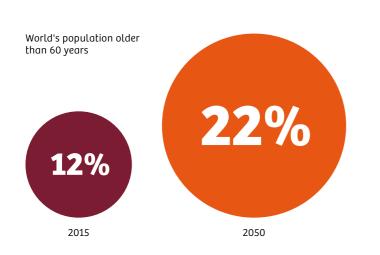
Our aim is to provide clinicians and hospitals with solutions to pioneer new procedures and make them safer, faster, and less costly. We are constantly working to bring new, innovative multi-modality imaging solutions to both single and multi-room settings. With technology that lets you seamlessly combine imaging along the entire clinical pathway, you gain greater flexibility and can achieve better clinical outcomes for your patients.

Close collaboration with strategic partners in therapy delivery and device manufacturing is helping us co-create the best therapy ecosystem possible. Together with our clinical and industry partners, we can realize therapy suites that unlock a multitude of opportunities for you to advance therapy outcomes.

Staying ahead in today's healthcare market

For healthcare providers, the industry-wide shift from fee-for-service models to value-based reimbursements is creating increased economic pressure. The needs of the growing aging population add to this – and demand for safer and more effective treatment creates further challenges due to the associated costs. Advancements in medical imaging enable hospitals to stay ahead by developing and performing innovative minimally invasive procedures.

Costs in mUSD 500



CAGR 300 +15% CAGR 100 +10% CAGR 2015 2016 2017 2022 Intraoperative Intraoperative Intraoperative Angiography systems MRI systems CT systems

14%

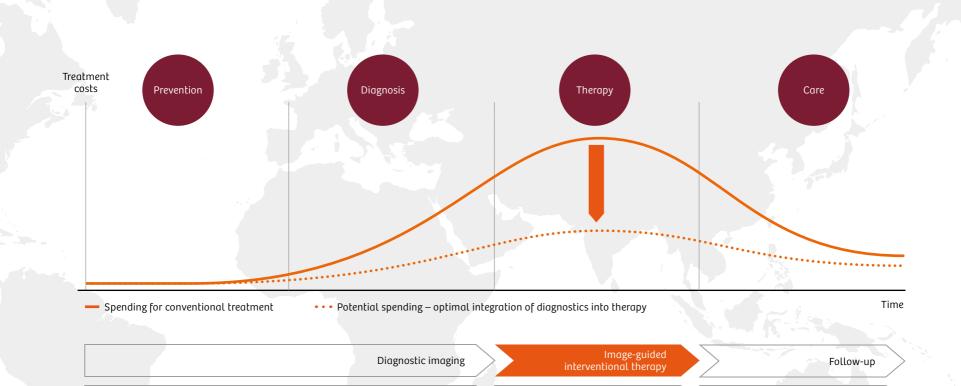
Aging population pressure

By 2020, the number of people older than 60 years is expected to surpass the number of children younger than five years of age.¹ The aging population confronts health systems with challenges, particularly in regard to cancer treatment that requires surgical intervention.

The rise of intraoperative imaging

The market for intraoperative imaging is expanding rapidly: Angio, MRI, and CT systems have steadily been making their way into the ORs and interventional suites of modern hospitals. Over the next five years, projected market growth will be in the double digits.²

Long-term monitoring



Pharmaceutical therapy

Lab diagnostic

Image guidance enables cost-effective procedures³

With conventional treatment, costs are difficult to contain. Medical imaging helps optimize procedures for individual patients, which could potentially lead to shorter hospital stays and fewer reoperations. Optimal integration of diagnostics along the treatment path represents an opportunity to improve patient care and minimize costs.

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Multi-modality imaging to advance therapy outcomes

Holistic health management is crucial for institutions striving to keep pace in today's healthcare environment. Beyond early detection of diseases, innovative physicians are also aspiring to more personalized patient care. Their goal: to develop and innovate procedures that make treatment more effective by combining the most advanced minimally invasive techniques and the latest medical imaging methods.

Can you envision how far you could push innovative treatment if you had seamless access to every imaging modality in your operating room?

Siemens Healthineers has developed the revolutionary nexaris Angio-MR-CT which opens up a whole world of possibilities. Combining the proven ARTIS Angiography, MAGNETOM MRI, and SOMATOM CT solutions in one environment, nexaris Angio-MR-CT helps you to obtain valuable image information about the patient by enabling the use of imaging during any stage of the procedure.

In order to eliminate patient repositioning when switching between surgical table and imaging modality, Siemens Healthineers joined forces with Getinge to develop the PILOT^{*} system. This new technology ensures that the patient remains stable in the intended treatment position while all imaging tasks are centered around him. In combination with Getinge's Transmobil TT-M^{*} patient transporter, the patient can additionally be moved around in the OR, and even beyond, while always remaining in a stable position.

With nexaris Angio-MR-CT, we are removing physical barriers to using multi-modality imaging in the OR for preprocedural planning, intraoperative guidance, and immediate quality control for the benefit of optimal patient outcomes. Whether you need to see the borders of a tumor, evaluate the success of an ablation, or assess perfusion, our intraoperative imaging solutions provide you with the information you need at the right moment for taking action.

As a pioneer in healthcare, you expect us to be your trusted partner to help you change treatment. Now we are handing you the solution that lets you make your vision a reality.

nexaris Angio-MR-CT Be at the nexus of treatment innovation

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Innovating procedures is key for improving patient outcomes

Image-guided minimally invasive therapy can replace many open procedures, which can help minimize complications and boost quality control. Seamless combination of all imaging modalities in one environment is necessary so that you can use imaging for treatment to the fullest extent.

Up to 10% of patients undergoing open procedures such as bowel resection and bariatric surgery suffer postoperative complications⁴ – and reoperations may prove difficult. Procedures that employ intraoperative imaging reduce risk for patients and lower complication rates,^{5,6} thereby improving patient outcomes and cost efficiency at the same time.

Despite the benefits, imaging setups in the OR today are still rare and, even if available, they may be too complicated to use on a routine basis. Moving the patient between imaging modalities and surgical tables can also introduce unacceptable risk. A study shows that more than half of neurosurgery cases are delayed, possibly because MRI scans are not sufficiently prioritized for surgical navigation planning or there are delays associated with patient transfer.⁷

Experience seamless access

OM Skyra

nexaris Angio-MR-CT seamlessly combines multiple imaging modalities in one environment and requires no patient repositioning, so you can focus entirely on developing innovative treatment approaches.

nexaris Angio-MR-CT at a glance

The combined power of nexaris Angio-MR-CT and the PILOT patient transfer system puts you at the forefront of medical innovation. With barrier-free access to multi-modality imaging, seamless workflows are going to redefine your OR experience.

- patients

• Experience seamless access to intraoperative imaging without the need for repositioning

• Drive treatment innovation with synergized Angio, MR, and CT image information

• Team up with an experienced partner to customize your nexaris Angio-MR-CT

Advanced imaging Angiography

Whole-body X-ray imaging for visualizing small vascular structures and needle guidance as well as catheter placement

- Fluoroscopy
- DSA (Digital Subtraction Angiography)
- 3D imaging
- Needle guidance
- Image fusion

MRI

Whole-body MRI for enhanced soft-tissue information without ionizing radiation

- Soft-tissue imaging
- Perfusion imaging
- Diffusion-weighted Imaging
- Imaging to support ablation verification
- Vascular assessment

Sliding gantry CT

Fast and comprehensive image information in time-critical situations

- High- and low-contrast imaging
- Skeletal imaging
- CT angiography
- CT needle guidance
- Perfusion imaging

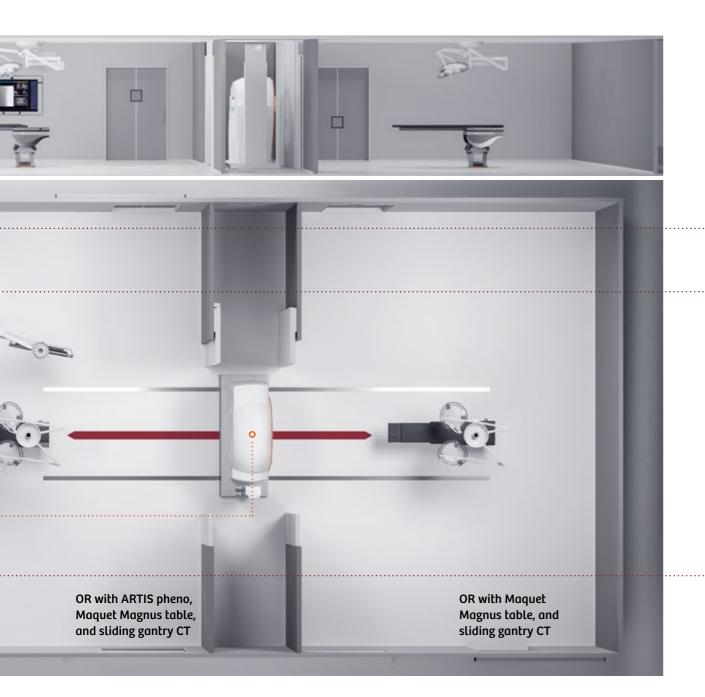


















Seamless workflows

Getinge Maquet Magnus^{*}

The patient remains in the final treatment position on the surgical table for imaging with ARTIS pheno or a sliding gantry CT.

Combi Dockable Table**

For seamless patient transfer from surgical table to MRI scanner with integrated coils that support head and body imaging.

Getinge Maquet Transmobil TT-M*

Holistic workflow for patient transfer beyond OR:

- From helicopter landing pad or ER to ICU, radiology, or OR
- ICU to OR and back for postoperative care
- From other ORs to MR modality



nexaris Angio-MR-CT | Experience seamless access

Transfer patients without repositioning

PILOT^{*} is a patient-centered transfer system that eliminates the barriers to using intraoperative whole-body Angio, CT, and MR imaging at any point during the procedure. The patient can be transferred seamlessly throughout the entire hospital and between imaging modalities without repositioning.



Combi Dockable Table is securely docked to the Maquet Magnus table^{**}

The core of the transfer system is the new transfer board[°], jointly designed by Siemens Healthineers and Getinge. You can slide the transfer board from the Maquet Magnus[°] surgical table to the Combi Dockable Table^{s°} and back without patient repositioning.



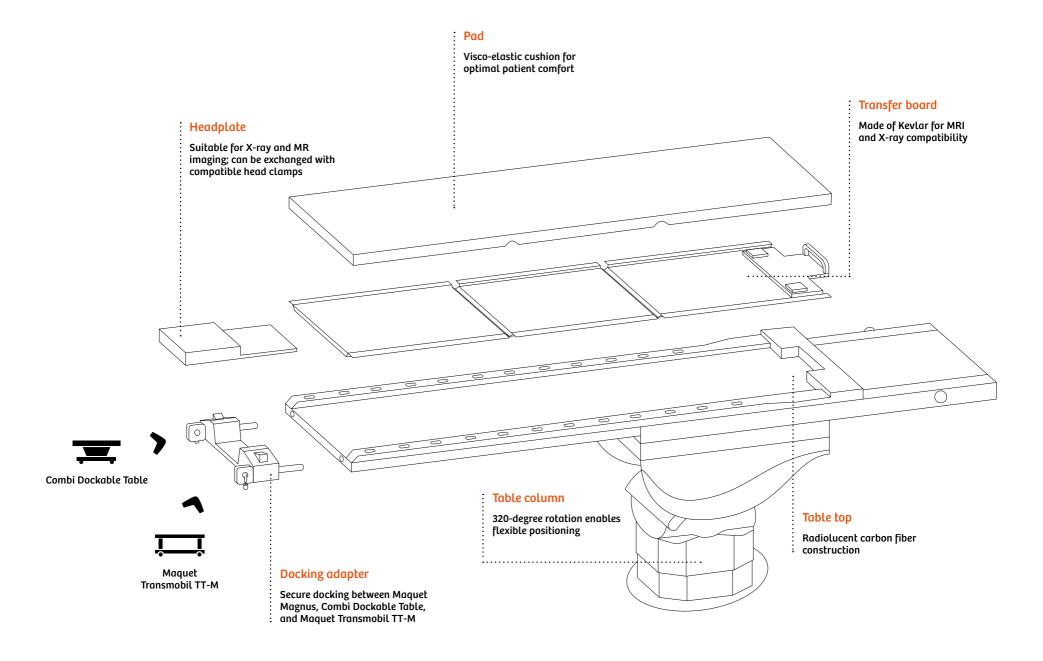
Patient slides smoothly between tables on the transfer board

Seamless transfer between the Angio system and MRI scanner at any point during the procedure is now making its debut in an OR setting. Both table top and transfer board are made from X-ray translucent material to permit intraoperative CT as well.



Patient is transferred to the MRI scanner using the Combi Dockable table

Furthermore, the patient transporter Maquet Transmobil TT-M^{*} allows for patient transfer from anywhere in the hospital to the OR and back.





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Synergized Angio, MR, and CT image information

nexaris Angio-MR-CT paves the way for innovative treatments that combine multiple imaging modalities in a single procedure. Seamless access to cutting-edge imaging offers exceptional precision and quality control, as well as the potential to replace open procedures that are more invasive with minimally invasive alternatives.

Improved resection results

Tumor resection requires extreme precision

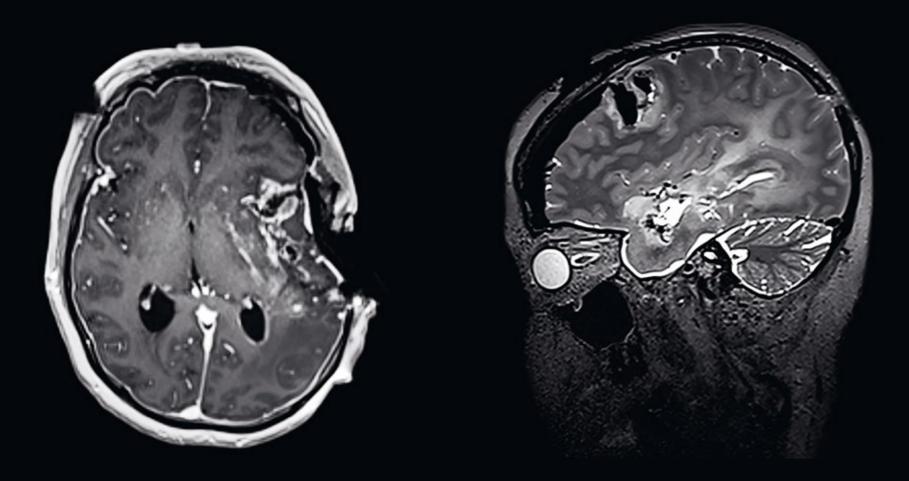
Surgical resection still represents the most reliable solid tumor treatment with curative intent. Complete removal (R0) while preserving as much healthy tissue and organ function as possible is all about precision.

Verification of surgical results is crucial

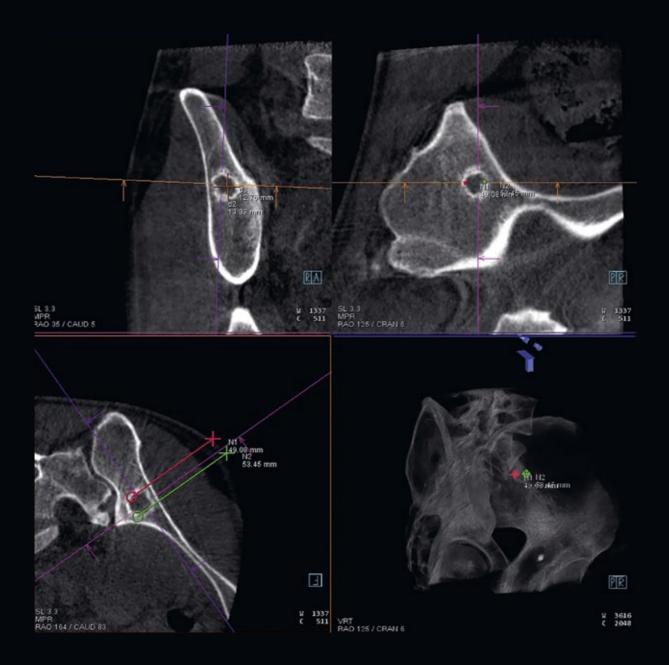
Even if all planning was done properly, surgeons must ascertain that the entire tumor has in fact been removed. Cancer recurs locally in up to half of all patients, and this significantly reduces long-term survival.⁸

Intraoperative multi-modality imaging offers innovation potential

nexaris Angio-MR-CT provides access to intraoperative imaging to help assess the completeness of tumor resection. Additionally, intraoperative imaging can be used to determine whether the procedure needs to be adapted and continued to ensure optimal patient outcomes. Studies in the field of neurosurgery have shown that intraoperative MRI can be beneficial for physicians who wish to verify tumor resection completeness. In one study, for instance, surgeons modified the procedure for almost 30% of patients in response to intraoperative MRI findings.^{9, 10, 11} With nexaris Angio-MR-CT, MRI of the whole body is possible as well, and this can dramatically increase the application potential of MRI for treating tumors using resection.



Intraoperative MR images of the head to check the results of a brain lesion resection Courtesy of University Clinic of Navarre (CUN), Spain



Cryoablation of a bone tumor: planning with robotic C-arm Courtesy of Radboud University Nijmegen Medical Centre, Netherlands

Full control over ablation

Ablation is particularly important in advanced tumor stages

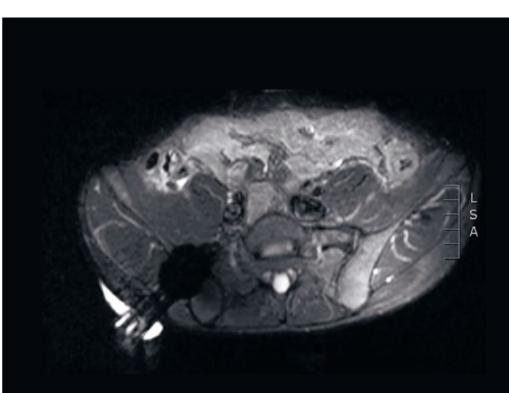
Ablation eliminates cancerous tissue inside the body by delivering either extreme cold or heat using a needle. Less invasive than resection, ablation is particularly beneficial for elderly patients, those at increased risk for bleeding, and patients who cannot tolerate traditional surgery due to other medical conditions. In some cases, ablation represents the only option for prolonging the life of patients with advanced disease who are not candidates for surgery with curative intent.

Accurate targeting and precise guidance pose a challenge

Accurately targeting the tumor and ensuring that small lesions have been fully ablated can be difficult. The widely used CT and cone-beam CT needle guidance cannot be used reliably to verify that the whole tumor has been ablated. MRI can measure multiple parameters which provide information necessary for performing a precise ablation.

Intraoperative multi-modality imaging enables visualization throughout the procedure

With nexaris Angio-MR-CT, *syngo* DynaCT (cone-beam CT) offers high spatial resolution for visualizing small vascular structures. This supports diagnostic determinations and simplifies needle positioning.¹² Intraoperative CT imaging represents an alternative in cases when the intervention requires live 3D fluoroscopy for guidance.¹³ MRI can potentially be of help to physicians who wish to use imaging for assessing ablation success.¹⁴



Cryoablation of bone tumor: MRI to support verification of treatment success Courtesy of Radboud University Nijmegen Medical Centre, Netherlands

Fast trauma care

Trauma care needs vary widely from patient to patient

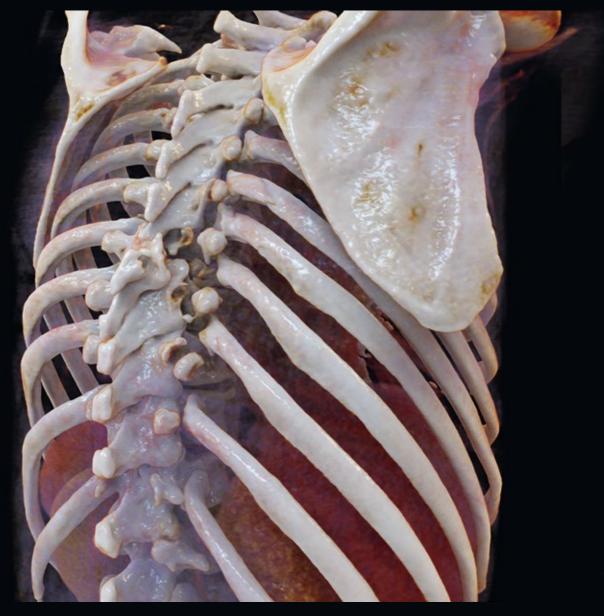
In trauma cases, a patient's hemodynamic stability determines the next steps. While stable patients first arrive in the emergency room for evaluation, unstable patients are transferred directly to the OR for surgery to stop the bleeding.

Unstable patients introduce serious difficulties

Performing whole-body CT on hemodynamically unstable patients can raise the chance of survival by up to 33%, according to one study.¹⁵ However, more than half of trauma surgeons refrain from it in cases of severe bleeding because logistical challenges such as inadequate availability of resuscitation equipment and potential time delays due to having to transport the patient render imaging too risky.¹⁶

Multi-modality imaging right in the OR allows for fast treatment

With seamless access to multi-modality imaging right in the OR, nexaris Angio-MR-CT offers previously unimaginable opportunities for treating trauma patients. PILOT^{*} makes it possible to bring patients directly from the helicopter pad to the OR using the Maquet Transmobil TT-M^{*} patient trolley and transferring them onto the surgical table – without any need for lifting. The sliding gantry CT allows you to perform CT imaging for evaluation right away. With the patient already in final position for treatment, the robotic C-arm supports all necessary procedures such as screw placement or embolization to stop the bleeding.



CT image of a trauma case with multiple spine fractures *Courtesy of UI Radiologie Salzburg, Austria*





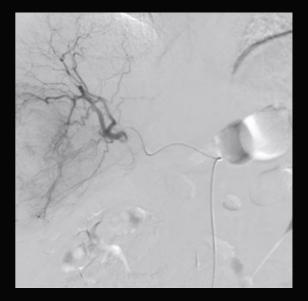
Experience the power of high-end imaging

Image guidance helps with intraoperative monitoring and outcome verification. When you combine multiple imaging modalities during therapy, you get all the advantages of each right away without having to make any compromises. Sheer endless potential for innovating procedures awaits you.

Angiography: perform complex procedures



Pelvic screw placement Courtesy of University Hospital Ulm, Germany



Vascular structures within the liver Courtesy of Jikey University School of Medicine, Japan

X-ray-based imaging enables endovascular treatment without large incisions. Modern systems can also visualize complex pathologies in 3D using a single rotational run of the C-arm.

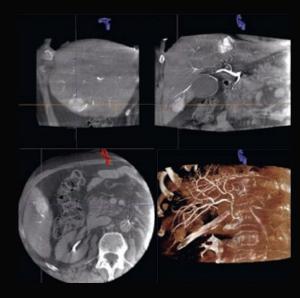
Fluoroscopy

Paired with contrast media, 2D imaging shows vascular structures. You can also use 2D imaging to visualize instruments such as catheters during endovascular procedures, or bones and screws during orthopedic interventions.

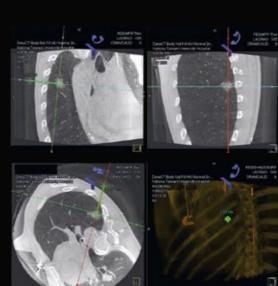
Robotic C-arms can additionally provide a "roadmap" by fusing a preoperative 3D image with live imaging during the procedure. This allows you to see structures and landmarks without contrast media. Live fluoroscopy provides real-time guidance during treatment. Dedicated acquisition modes that yield higher quality – at higher dose – lend support for diagnostic and documentary purposes.

DSA (Digital Subtraction Angiography)

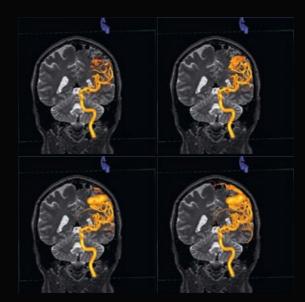
DSA is a digital technique that removes the static background and makes vessels with contrast more visible. This technique is the standard for clear visualization of important structures.



Hepatocellular carcinoma Courtesy of Medizinische Hochschule Hannover, Hannover



Biopsy of a lung nodule Courtesy of National Taiwan University Hospital, Taiwan



Fusion of head MRI with 4D DSA – combined soft-tissue and blood flow information Courtesy of Alfried Krupp Krankenhaus, Essen

3D imaging

syngo DynaCT enables rotational acquisition and 3D reconstruction for cross-sectional imaging or volumerendered techniques. The resulting visualization gives a solid base for planning and assisting procedures. The high spatial resolution displays even the smallest vessels and structures.

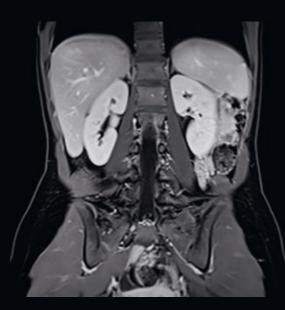
Needle guidance

Robotic C-arms from Siemens Healthineers represent the most convenient way to perform instrumented procedures compared to other imaging modalities. The robotic C-arm uses a laser to pinpoint the exact trajectory and optimal entry point for any instrument, from a biopsy needle to a bone screw. Once you have selected your destination and your entry point on the 3D image, the system calculates the path on its own.

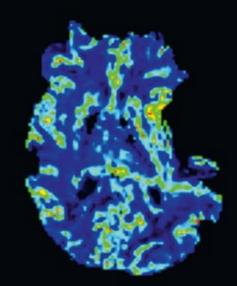
Image fusion

Image fusion combines information from multiple modalities to give you a fuller picture of the situation. You can fuse highly detailed soft-tissue MR images with 4D DSA, or preoperative CT images with live interactive images from the angiography system. This helps you make the most out of the available information as well as avoid radiation dose and contrast injections necessary for repeat scanning.

MRI: visualize soft tissue without radiation



Abdominal imaging Courtesy of Virchow Klinikum, Germany



Intraoperative perfusion imaging of the brain Courtesy of University Clinic of Navarre (CUN), Spain

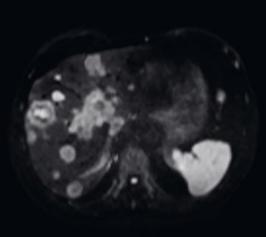
MR imaging provides highly detailed, non-invasive images of anatomical structures and their surrounding tissue – without any ionizing radiation.

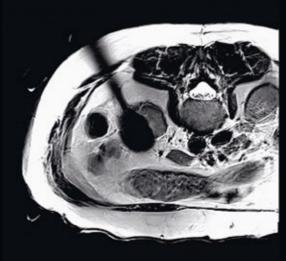
Soft-tissue imaging

MRI is the best option when you need optimal softtissue contrast. You can use it to visualize areas such as the brain, spine, joints, and abdomen. Beyond high-contrast resolution, MRI can suppress fat and water to make lesions truly stand out. Intraoperative MRI can support assessment of tumor resection completeness.

Perfusion imaging

With MRI, you can assess tissue-level perfusion by measuring blood flow either with or without contrast (DSC, DCE, and ASL). Alternatively, you can do so by evaluating blood oxygenation (BOLD). Perfusion information provides valuable diagnostic information to physicians seeking to detect ischemia, demonstrate reperfusion after revascularization, and distinguish between different tumors (e.g., glioblastoma vs. cerebral metastases). Using functional MRI, you can also analyze highly localized brain activity in real-time.







Diffusion imaging of the liver Courtesy of SCM Imagerie Par Resonance la Roseraie, France

Imaging during MR-guided kidney cryoablation Courtesy of Brigham and Women's Hospital, USA

Renal angiography Courtesy of Kosei Hospital, Japan

Diffusion-weighted imaging

Diffusion-weighted imaging allows you to observe the movement of water molecules within tissue. It can help identify ischemia (both acute and chronic) because the movement is correlated with the amount of water in the interstitial space, which changes depending on the cellularity of the tissue and cell state. You can also use it to distinguish between abscess and necrosis, and to identify different tumor forms based on their cellularity.

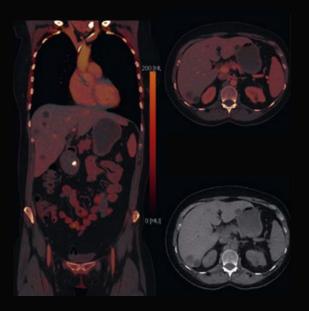
Imaging to support ablation verification

MRI can potentially be of help to physicians who wish to use imaging for assessing ablation success.

Vascular assessment

MRI enables 3D angiography without additional contrast. This is particularly valuable for treating patients with renal insufficiency: you can visualize their vascular anatomy and obtain functional information on blood flow in a non-invasive way.

CT imaging: get the full picture fast



Multiple hepatic lesions Courtesy of University Hospital Basel, Switzerland





Lateral ankle joint fracture Courtesy of CIMOP Bizet, France

CT scanners enable fast imaging with high spatial resolution for 3D reconstruction of bony structures and soft tissue such as the liver, lung tissue, and fat. You can perform scans during multiple contrast phases because of the fast acquisition times, resulting in more information about the vascular anatomy and its function.

High- and low-contrast imaging

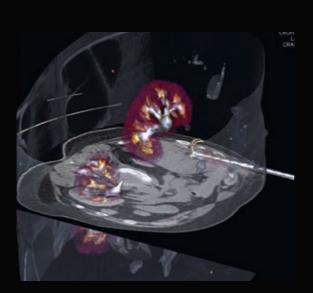
The good low-contrast resolution of the CT scanner helps you differentiate tissue. This effect can be further enhanced with contrast media.

Skeletal imaging

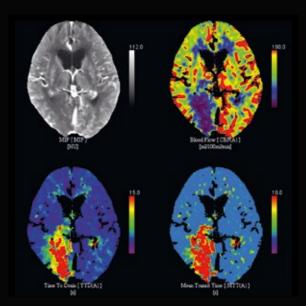
The high spatial resolution and 3D capabilities of CT imaging are ideal for diagnosing bone fractures and alterations in structures that are impossible to see using traditional radiography.



Long-range acquisition with great vascular details Courtesy of CIMOP Bizet, France



Radiofrequency ablation of liver metastasis Courtesy of LMU Großhadern, Germany



Comprehensive stroke assessment Courtesy of LMU Großhadern, Germany

CT angiography

CT imaging with contrast media represents a minimally invasive way of visualizing vessels in the whole body. You can differentiate arterial, venous, and portal vessels depending on the phase and even mask out bones. Unlike angiography, CT imaging requires no specific catheterization and provides information about the vessel wall. You can also use 4D CTA runoffs to obtain dynamic information to identify flow problems and distinguish calcium plaques.

CT needle guidance

CT guidance can serve as an alternative to ultrasound imaging when you are positioning needles for a biopsy or drainage. With near real-time 3D guidance featuring axial, coronal, sagittal, and oblique planes, you can achieve accurate positioning quickly, regardless of anatomical complexity. Automatic needle detection algorithms make needle tracking and navigation easy.

Perfusion imaging

With CT scanners, you can assess tissue-level perfusion by tracking the flow of contrast media within vessels. This information is useful for diagnosing ischemic stroke, differentiating infarct core and penumbra, and visualizing organ perfusion for surgical and embolization procedures. When multiple modality changes are necessary during treatment, the speed of CT imaging – and the ease with which it can be combined with angiography – offers a great advantage.

Team up with an experienced partner

Customize your nexaris Angio-MR-CT

Through seamless access to multi-modality imaging and hospital-wide patient transfer, the combination of nexaris Angio-MR-CT and PILOT^{*} creates an entirely new treatment experience. Let's combine forces to design the OR that will help you innovate therapy.

Plan your multi-room setup

Siemens Healthineers and Getinge will accompany you along the journey of customizing your multi-modality OR according to your specific needs by combining our shared technical and clinical experience with multi-modality setups. We believe in partnering with our customers as we design and implement our solutions, so we are excited to hear your ideas and help you translate them into practice.

When setting up your nexaris Angio-MR-CT, it is crucial to keep the whole project in mind and at the same time address the particular needs of different stakeholders from both a clinical and a technical point of view. Our goal is to deliver a tailor-made solution that meets your needs and exceeds your expectations.





Initial consultation

Installing a highly flexible OR setup that combines imaging modalities for optimal utilization necessitates extensive OR planning experience and in-depth knowledge of clinical applications. We bring together experts in architecture, clinical applications, technical installations, and rules and regulations to align requirements at the right time and place. Depending on your needs, our consultants are ready to accompany your project from concept through implementation.

OR planning

During OR planning, everybody needs to be on the same page. This is why we make it a priority to discuss layout options with our customers and adjust them until they are perfect. We choose the appropriate clinical, technical, or financial approach to communicating these options according to the needs of our partners in every phase. We also provide 3D renderings of the planned setup that show only those aspects relevant for medical staff to streamline planning for clinical applications.

Smooth operations

Surgery, interventional radiology, and diagnostic radiology all have different requirements. The technical department requires easy access to the technical room, and the hygienist is focused on easy and thorough cleaning. At the same time, hospital management is interested in how to make the setup both cost-effective and efficient. We will help you manage all of these priorities to deliver optimal care and remain at the forefront of therapy.

Configure your multi-modality OR



Robotic Angio system

ARTIS pheno is a unique robotic angiography system that lets you perform complex treatments while reducing complications and improving outcomes. With excellent imaging capabilities and OR integration, it is the gold standard when it comes to individualized preprocedural planning, intraoperative guidance, and immediate assessment.

MRI

nexaris Angio-MR-CT is compatible with MAGNETOM Skyra (3T) and MAGNETOM Aera (1.5T).^{**} Offering exceptional image quality, increased flexibility, and superior speed both modalities support MRI for the whole body. The exam software DotGO makes protocol management intuitive, so you can consistently achieve high-quality scan results. The 70-centimeter Open Bore provides ample space for patients and MR-compatible instruments.

СТ

With SOMATOM CT Sliding Gantry systems, you get advanced CT imaging on rails. The scanners SOMATOM Edge Plus and SOMATOM Definition Edge both combine exceptional scan speed for time-critical cases with advanced imaging capabilities for pre-, intra-, and postoperative functional assessments.

With its 80-centimeter bore, SOMATOM Confidence^{***} was designed to maximize space for patients and instruments during surgical and interventional procedures.

Surgical table system by Getinge

The Maquet Magnus^{*} adds extraordinary flexibility to your OR. The table system is freely configurable based on your diagnostic and therapeutic needs. In combination with the special table top and transfer board^{*}, you can access all imaging modalities of nexaris Angio-MR-CT with ease. Even in time-critical situations, the Maquet Magnus gives you the freedom you need to make the best possible decisions for your patients.

Dockable MR table

Combi Dockable Table^{**} enables safe patient transfer from the surgical table to the MRI modality. With embedded body coils and the use of additional flex coils, you can perform whole-body intraoperative MRI at any point during therapy.

Patient transporter by Getinge

No matter whether your patient is located in the ICU or just arrived via helicopter, the height-adjustable Maquet Transmobil TT-M^{*} enables you to bring him to the OR and back. Because the patient transporter supports the PILOT transfer board, you can simply slide the patient onto the Maquet Magnus or Combi Dockable Table once you get to the OR – no repositioning or lifting is necessary.



Additional products and services





The ACUSON Freestyle ultrasound system sets the pace for modern healthcare. Its advanced technologies, including the industry's first wireless ultrasound transducers, are designed to streamline operation and sterile field management. Value-based innovations for improving visualization and cablefree scanning are built to deliver new levels of ease and efficiency at your point of care. Deliver the quality and safety your patients deserve with value-based technologies designed to reduce complications and improve infection control.



Advanced system support

Siemens Remote Service (SRS) is a secure data link that connects your medical systems to the service experts in our Customer Care Center. Via SRS, the performance and condition of your equipment can be monitored in real time. SRS makes a broad range of proactive and interactive services available – including fast error identification, remote repair and software updates, preventive maintenance, and collaboration services.



Getinge Maquet VARIOP and Integrated Workflow Solutions

Structure and flow are the fundamental elements of a successful hybrid OR. With the Maquet VARIOP modular room system, your Getinge expert can plan and design an intuitive workplace that streamlines workflows. Combined with IT solutions by Getinge that work together to ensure a safer, integrated, and better utilized facility, we are enabling healthcare professionals to focus on delivering the best possible care for patients.



Getinge Solutions for hybrid ORs

From MR-compatible ventilators to tables and everything in between, Getinge has created a product offering for hybrid suites that is second to none. The elements complement each other for seamless interaction and an ergonomic user experience. We go beyond individual products and deliver complete multidisciplinary solutions that suit all professional disciplines within the hybrid OR environment.

Technical specifications



ARTIS pheno

Installation	. Floor-mounted
C-arm	. 6-axes, SID lift, detector + collimator rotation
Detector	zen technology, 1,000-micrometer scintillator thickness, 92 fps readout for 3D
X-ray tube	flat emitter technology, CLEARpulse



MAGNETOM Skyra

Magnet	. 3T
Field-of-view	. 50 x 50 x 45 cm³
Bore size	. 70 cm Open Bore
Gradient power	. 45/200, simultaneous
Coils	. Flex 4 Large + Flex 4 Interface, Flex 4 Small + Flex 4 Interface, Body 18, Body 18 Long, Spine 32, Combi Coil Base
Software version	. syngo MR E11
Patient table	. Tim Dockable Table + Combi Dockable Table**



MAGNETOM Aera

Magnet	. 1.5T
Field-of-view	. 50 x 50 x 45 cm³
Bore size	. 70 cm Open Bore
Gradient power	. 33/125 or 45/200, simultaneous
Coils	. Flex 4 Large + Flex 4 Interface, Flex 4 Small + Flex 4 Interface, Body 18, Body 18 Long, Spine 32, Combi Coil Base
Software version	. syngo MR E11
Patient table	



SOMATOM Edge Plus Sliding Gantry

Travel length	. 12 m
Number of detector rows	. 64
Max. slices/rotation	. 128 (acquired slices)/ 384 (reconstructed slices)
Rotation times	. 0.28 s, 0.33 s, 0.5 s, 1.0 s
Generator power	. 100 kW
Aperture	. 78 cm
Tube voltage	
Clinical options	TwinBeam Dual Energy, Adaptive 4D Spiral, Adaptive 3D Intervention Suite, iMAR



SOMATOM Definition Edge Sliding Gantry

Travel length	12 m
Number of detector rows	64
Max. slices/rotation	128 (acquired slices)/ 384 (reconstructed slices)
Rotation times	0.33 s, 0.5 s, 1.0 s (opt. 0.28 s)
Generator power	80 kW (opt. 100 kW)
Aperture	78 cm
Tube voltage	70, 80, 100, 120, 140 kV
Clinical options	TwinBeam Dual Energy, Adaptive 4D Spiral, Adaptive 3D Intervention Suite, iMAR



SOMATOM Confidence Sliding Gantry***

Travel length12 m
Number of detector rows 32
Max. slices/rotation 64 (acquired slices)/ 192 (reconstructed slices)
Rotation times 0.33 s (opt. 0.3 s)
Generator power
Aperture
Tube voltage
Clinical options Adaptive 3D Intervention Suite, iMAR

Getinge Maquet Magnus 1180.12^{*}

Length	700 mm
Width6	20 mm
Height adjustment8	37–1467 mm
Lateral tilt±	15°
Longitudial shift6	00 mm
Trendelenburg / revers Trendelenburg ±	15°



Combi Dockable Table**

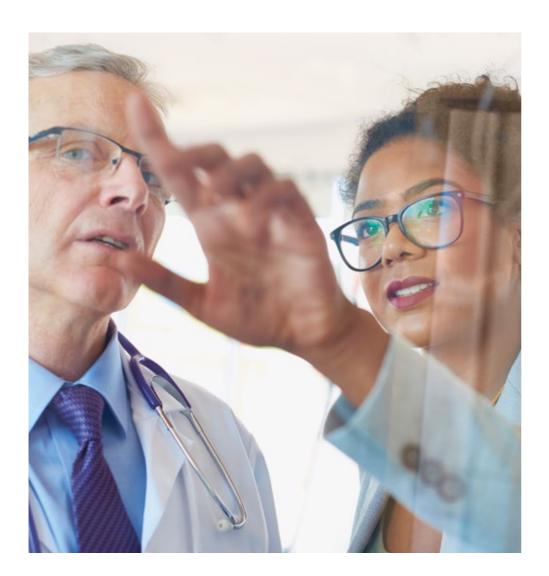
Length	. 2485 ± 4 mm
Width	. 864 ± 4 mm
Height	. 680 + 13 mm up to 1032.5 + 13 mm
Vertical movement	. 680–1030 + 13 mm at 60 mm/s
Horizontal movement	. max. 2610 mm (Aera) max. 2757 mm (Skyra) at max. 200 mm/s



Getinge Maquet Transmobil TT-M*

Length
Width 821 mm
Height adjustment721–1043 mm
Lateral tiltn.a.
Longitudial shiftn.a.
Trendelenburg / revers Trendelenburg ± 15°





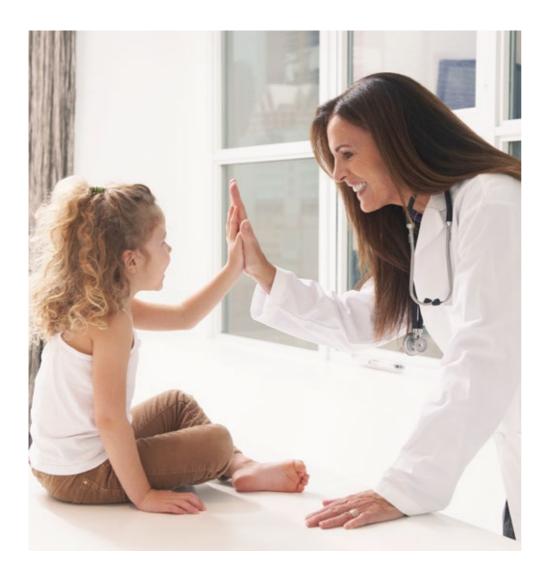
Why Siemens Healthineers?

At Siemens Healthineers, our focus is to help healthcare providers succeed in today's dynamic environment.

Healthcare providers around the world have long relied upon our engineering excellence – leading-edge, high-quality medical technologies across a broad portfolio. Our technologies touch an estimated 5 million patients globally every day.¹⁷ At the same time, they help hospital departments to continuously improve their clinical, operational, and financial outcomes.

We now consolidate this unprecedented volume of data and insights and turn them into pioneering enterprise and digital health services. With those, we maximize opportunities and share risks for the success of your entire health system.

Partnerships are built on people. With Siemens Healthineers there is no team more committed and more connected than we are to realize your success together.





Together with our innovation partner Getinge

We are proud to partner with Getinge to innovate treatment in modern hospitals. Getinge features well-known and dependable product brands such as Maquet. Using our combined clinical and technical experience, we are developing solutions to eliminate barriers to intraoperative imaging. Two companies combine forces to achieve a shared goal: advancing therapy outcomes. 1 "Factsheet no. 404: Ageing and health," September 2015, World Health Organization.

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*** 64-slice configuration

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Siemens Healthineers Headquarters Siemens Healthcare GmbH Henkestr. 127 91052 Erlangen, Germany Phone: +49 913184-0 siemens-healthineers.com