



Insight where it matters

Philips Allura Xper family for interventional neuroradiology

PHILIPS

Insight with highly

As a neuro-interventionalist, your cases are among the most demanding in the field. You routinely perform complex procedures on seriously ill patients under critical conditions. To meet the standards of clinical care, you demand gold standard performance from your interventional system.

In answer to your and your colleagues' demands Philips introduces the next generation of Allura Xper biplane systems. These are optimized to provide you with better insight to support your decisions with optimal risk management.

The leading edge Allura Xper family combines superb flat detector image quality with advanced interventional tools. With Philips' 2k imaging you can evaluate small vessels so you can move through the procedure with confidence. Allura 3D-RA helps to improve treatment planning, providing you with valuable 3D vessel information, where and when you need it.

Risk management is enhanced with XperCT. This technology provides CT-like imaging during the procedure right in the angio suite. You can push the applications envelope with Dynamic 3D roadmap and XperGuide providing you with Live 3D image guidance capabilities.

The Xper technology that is at the heart of the Allura Xper family allows you to streamline the clinical workflow to match your preferences, so you can focus on the patient – not the system. Multi-modality information integration is provided with Xper Workspace to further enhance clinical insight during the procedure.

Philips offers a choice of systems with the Allura Xper FD20/10 and Allura Xper FD20/20, with its two large detectors, to match your clinical practice. Whichever system you choose the Allura Xper family sets a new standard in neuro-interventional imaging.

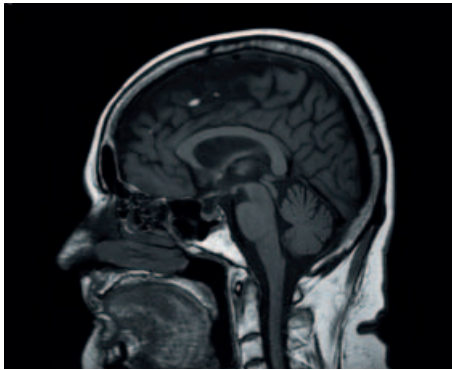


advanced technology



Confidence at every

Designed to give you enhanced insight, the new Allura Xper family helps you make crucial decisions at every stage of your procedure: from preparation and planning to archiving and reporting.



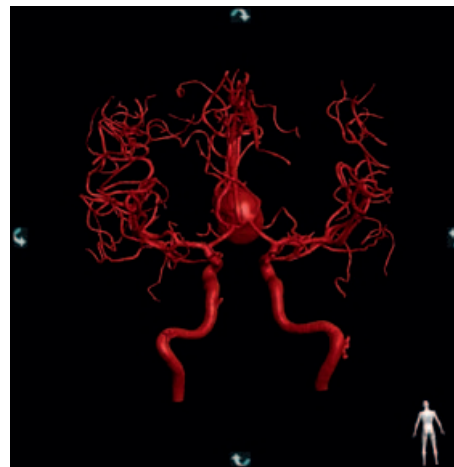
XperGuide

Simplified preparation

Planning your procedure is made faster and more convenient than ever thanks to the system's ability to show you all previous images at bedside – including MR, CT and X-Ray datasets. Patient preparation is also easier and faster, you can now apply your preferred settings at the touch of a button. The 'geometry reset' function automatically realigns the system to the default position within seconds.

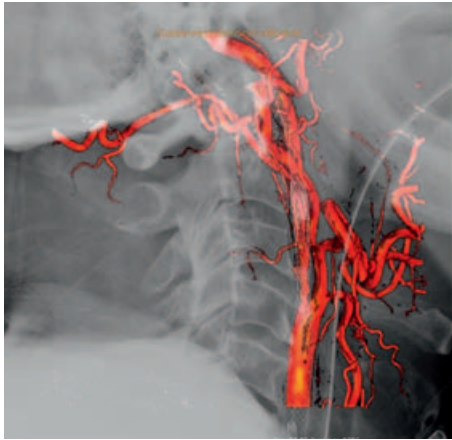
Enhanced diagnosis

You can evaluate small details and vessels with extreme clarity taking full advantage of Flat Detector technology combined with the Philips unique 2k x 2k imaging chain. Diagnosis is further enhanced with high quality 'real-time' reconstructions, allowing you to review vasculature in 3D with a single contrast injection. In addition, the high-resolution 3D vessel information can be fused with CT and MR datasets enhancing clinical insight. And with remarkable XperCT technology, developed by Philips, you can evaluate soft tissue and bony structures right in the angio suite.



Allura 3D-RA

stage



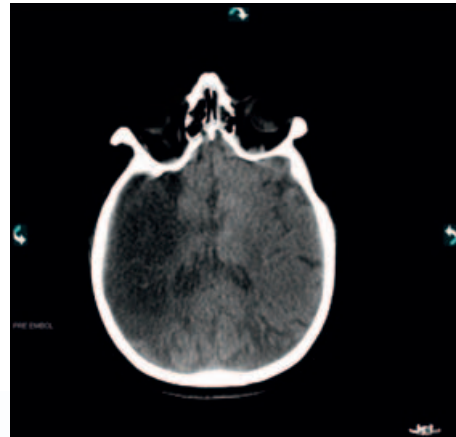
Dynamic 3D Roadmap

Advanced treatment

During treatment you have high-quality fluoroscopy and advanced roadmapping capabilities. Navigation can be further enhanced with the Dynamic 3D Roadmap, which can result in less contrast medium and X-ray dose. With ViewForum or your PACS workstation linked to MultiVision, immediate access is provided to multi-modality information at tableside. Another important efficiency feature is the Xper Table's automatic positioning – bringing the table back to the reference position with a single command. Throughout your diagnosis and treatment, your patient benefits from DoseWise: the Philips philosophy for reducing X-ray dose while ensuring excellent image quality.

Speeding up archiving and reporting

With ViewForum, post-processing can be performed while you examine and treat your patient, thus improving lab efficiency. You can also send the medical report with images via email to referring physicians straight from your Allura Xper system. In short, the Allura Xper FD20 biplane series can truly open a new era of advanced clinical solutions for your angio suite, helping to grow your practice. What's more, thanks to the advanced automation and systems integration, everything is easy to use and deployed in seconds. Just what you would expect from a company dedicated to sense and simplicity.



XperCT



Xper lets you focus on

To meet the challenge of the increasing variety of delicate procedures, you need an X-ray system that is both advanced and easy-to use. Only then can you fully focus on your patient – not the system. The Allura Xper systems take user friendliness one step further with Xper technology, allowing you to streamline your clinical workflow to your preferences.

Easy positioning and optimal 3D performance

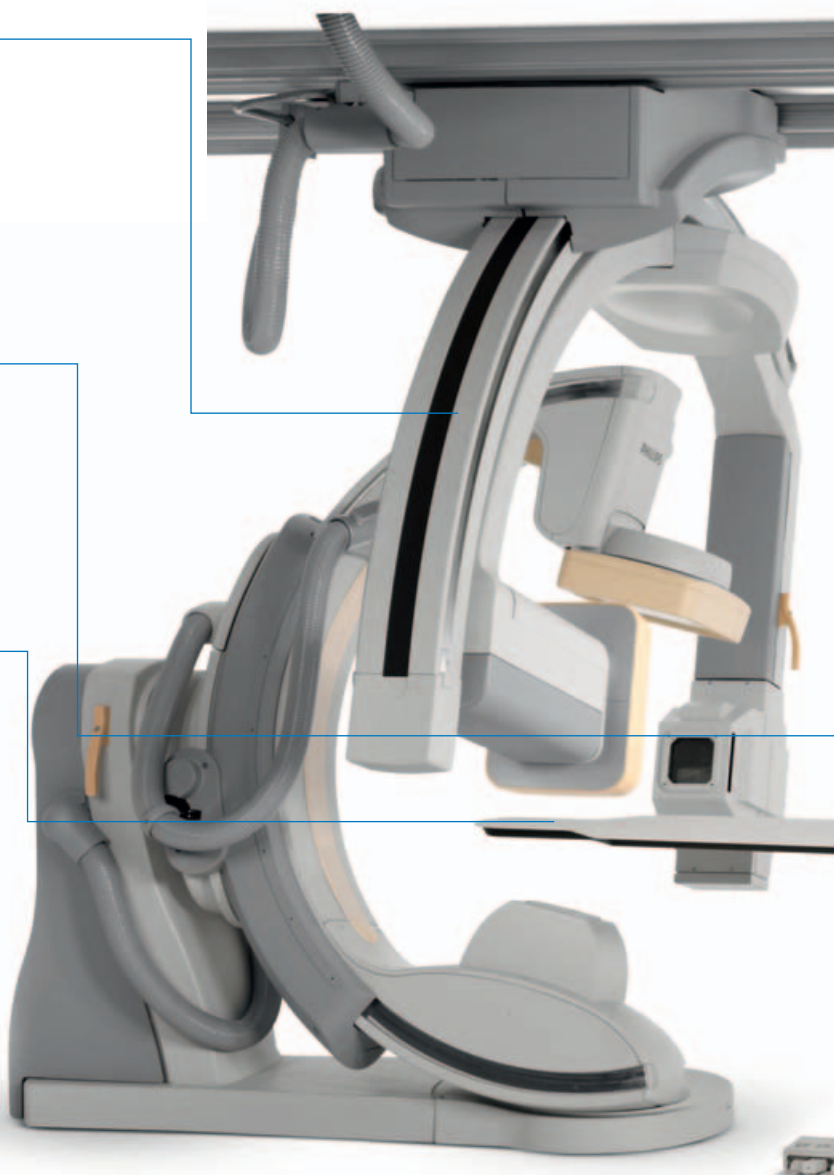
The Allura Xper systems are designed for fast, flexible imaging. The rock-solid C-arm provides excellent patient access and also enables you to perform rotational scans within seconds. And you can take full advantage of the Allura's speed with total confidence, thanks to the BodyGuard detection system, which senses the patient's body.

Intuitive controls at tableside simplify operations

The Allura Xper system enables you to focus on the patient with a user interface that is intuitive and ergonomic, making system operation transparent. The Xper Module gives you full command of the system at tableside: from selecting the protocols you need to using the advanced interventional tools, and streamlining procedures.

Easy patient access

The Xper Table, with its feather-light, free-floating capabilities, 250 kg patient weight capacity, and tabletop memory position, makes patient positioning easier than ever. Together with its true iso-centric tilt and cradle capabilities it gives you flexibility in patient positioning. Patient access is further improved with the unique double C-arc concept on the lateral stand creating optimal space for the interventional team. Patient access is improved with the compact design of the flat detector allowing for positioning close to the head even with a large lateral detector. With the lateral detector mounted on the doctor's side, scatter radiation towards the operator is reduced.



the patient



Complete viewing flexibility

In today's interventional setting, you are performing more complex procedures with smaller devices in complex anatomy - a difficult combination. Often you are sorting through diagnostic information from multiple sources to help guide your intervention. To help you with these challenging viewing requirements, you could use up to six or eight monitors. If you're looking for one of the best, Philips has introduced a new viewing concept: FlexVision XL, which provides outstanding viewing flexibility. Using a large, high-definition LCD screen, FlexVision XL allows you to display multiple images in a variety of layouts – each tailored for your specific procedure. With FlexVision XL, you have the image size you want, where you want it.

Personalization streamlines interventions

With Xper Settings, your personal preferences and protocols are pre-programmed, saving you time and effort during procedures. Everything from patient data management, exam scheduling, image acquisition, system movement, image post-processing and archiving – can be set according to your own way of working and also for each of the clinicians in your department.

Visualization at its cutting

As interventions increase in complexity, image quality becomes even more critical. In the course of a day's work, high-quality imaging saves time and assists with clinical decisions.

2k imaging for superb image quality

The Allura Xper systems take full advantage of flat detector technology to offer you superb clinical images. They incorporate a complete 2k imaging chain with four times more information than with conventional systems. With its 2k biplane imaging capabilities it redefines image clarity, visualizing small vessels and structures.

Powerful imaging tools to support clinical performance

Designed to meet your most demanding imaging requirements and to help you achieve excellent patient care consistently, the Allura Xper systems provide a powerful set of advanced imaging tools. These include Roadmap Pro, Dual Fluoro, and SmartMask functionality for improved guidance during interventional procedures. Fluoroscopy and Subtracted Fluoroscopy image quality is greatly enhanced by the Philips unique Xres image processing algorithm. Xres optimizes image quality in real-time by simultaneously reducing noise levels and enhancing contrast areas. Furthermore high speed subtracted acquisition up to 60 frames per second is possible to evaluate blood flow in e.g. AVMs.

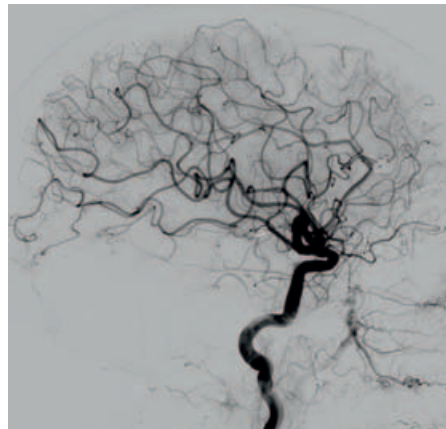
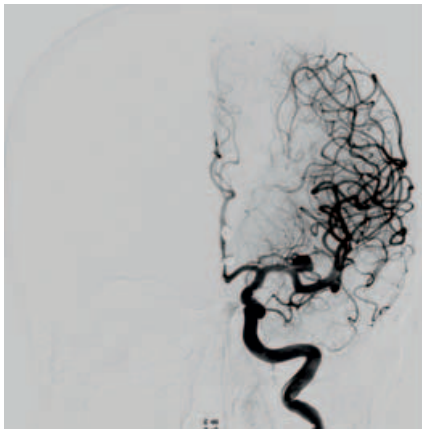
Excellent image. Perfect sense.

Image quality is essential in today's angio suite.

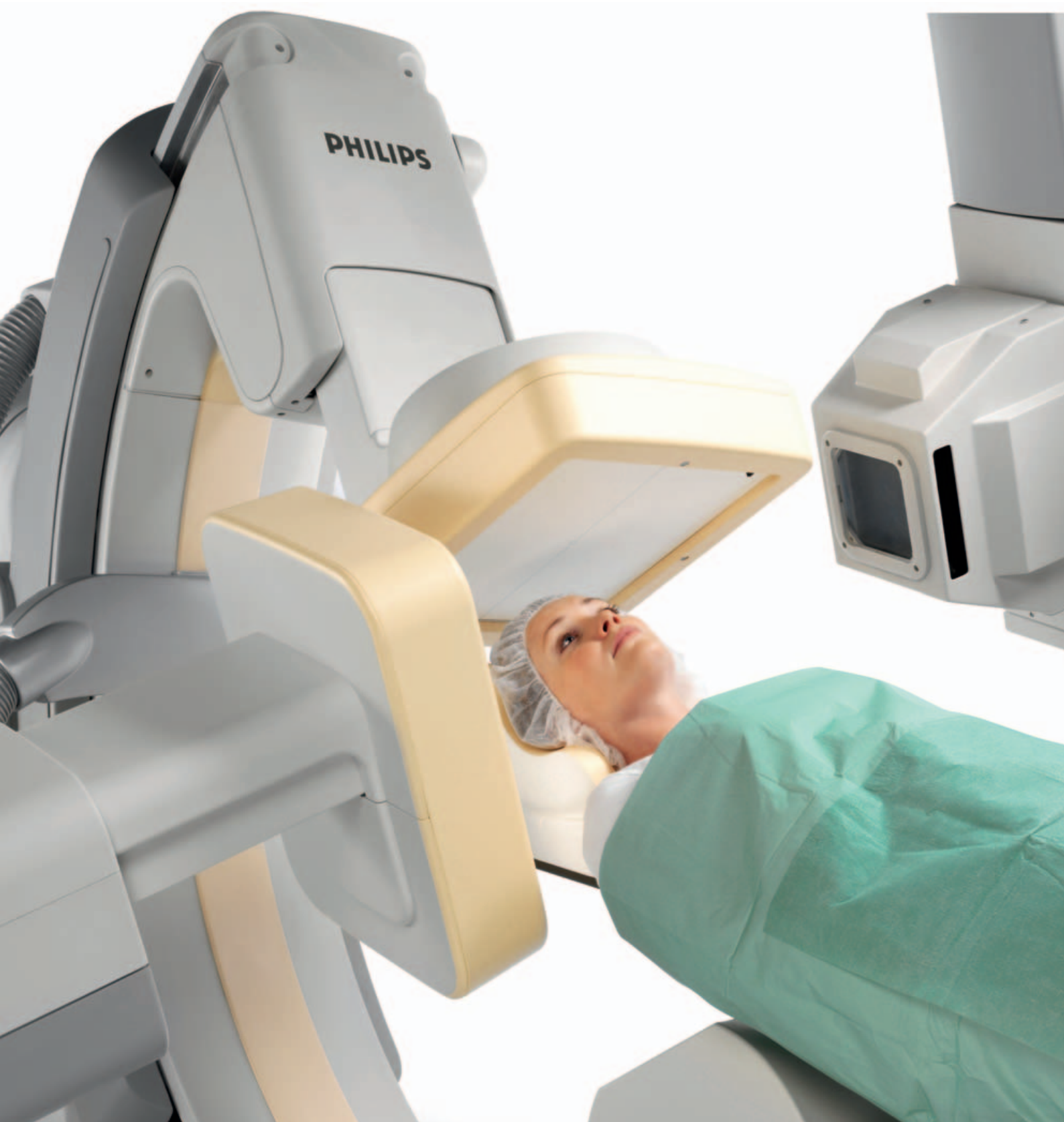
But so too is minimizing X-ray and contrast doses. Fortunately, Philips has applied its unique 'DoseWise' philosophy of X-ray dose management for low dose levels while producing excellent image quality.

The powerful MRC X-Ray tubes allows for uninterrupted, virtually noiseless operation while Spectrabeam technology filters out soft radiation; the most important factor in overall X-ray dose reduction. Additional technologies to further reduce radiation include:

- Xper beam shaping to position shutters and wedges without using radiation
- Xper Fluoro storage to document and review important phases of the procedure
- Grid switch pulsed fluoroscopy for the sharpest X-ray pulses.



edge



An extra dimension to

Give your angio offering an extra dimension with our advanced 3D imaging options.

They can assist in your decision making and can increase the range of procedures available in the suite, cutting waiting time and inconvenience for your patients.

Interventional 3D imaging

Philips Allura 3D-RA provides extensive 3D visualization of vascular pathologies from a single rotational angiography run. Used with the unique whole-body coverage of Philips Allura FD systems, it can cover any anatomy including cerebral, abdominal and peripheral vasculature. Moreover, its high-resolution 3D reconstructions are available in near real-time, while a full suite of analysis and visualization supports interventional decisions

- 3D imaging in the interventional lab
- Volumetric view of any vascular anatomy for 3D guidance during treatment
- Assists with treatment planning

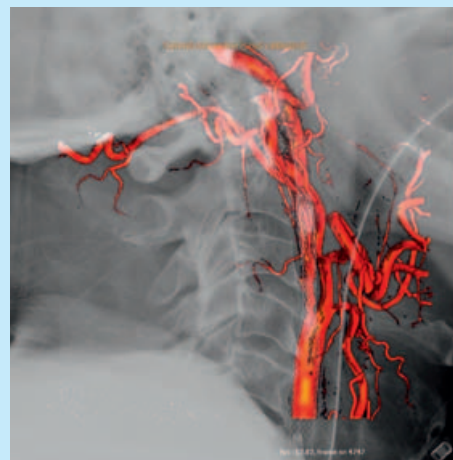
Live 3D image guidance

Philips Dynamic 3D Roadmap provides live 3D image guidance for navigating through vascular structures anywhere in the body. It offers real-time registration of live 2D fluoroscopy with a 3D angiography volume. The 3D vessel tree can be acquired with the 3D-RA feature on the X-ray system or from a previous CT/MR scan. The resulting roadmap shows the progress of a guide wire, catheter or coil in real time for neuro or body applications, with automatic compensation for changes in table and gantry position, field of view and source-image distance.

- Full 3D view for live guide-wire or catheter navigation through complex structures
- Helps reduce X-ray dose and contrast medium usage than with conventional roadmaps
- Dynamic guidance with real-time compensation for changes in table and gantry position, field of view and source-image distance



Automatic vessel analysis including automatic aneurysm detection



3D-RA of vertebrales as roadmap for neuro intervention

your angio suite

CT-like imaging during interventions

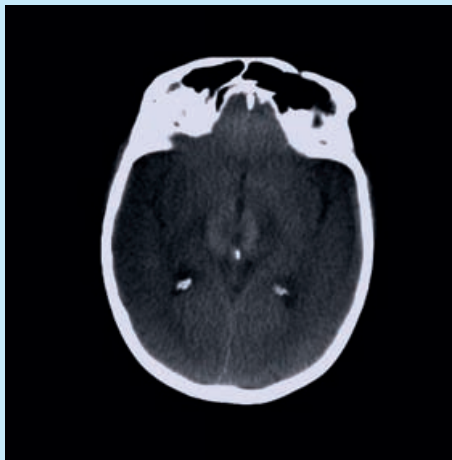
Add CT-like imaging to your interventional system. XperCT lets you assess soft tissue, bone structure and stent deployment before, during and after interventional procedures. Using a range of acquisition protocols, it supports neuro and body applications – delivering high-quality 3D reconstructions in less than a minute. During examinations, it helps you avoid structures and identify vessels feeding tumors. And it can help to reduce delays and enhance patient comfort during post-procedure check-ups.

- Supports diagnosis, planning, interventions and follow up
- Combine with Allura 3D-RA to visualize soft tissue and vascular anatomy on one image
- Use with XperGuide option for live needle guidance anywhere in the body

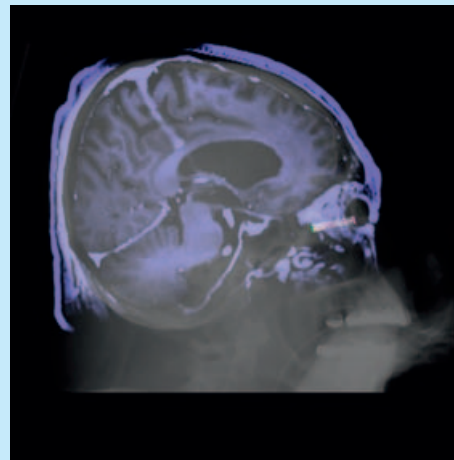
Live 3D needle image guidance

Philips XperGuide overlays live fluoroscopy and 3D imaging data (from CT, MR or Philips XperCT) to deliver real-time 3D needle guidance. It offers full tableside control plus entry-point and progress views for an easier workflow. This advanced navigation tool lets you keep a wide range of needle procedures such as biopsies, drainages and RF ablations in the angio setting. So there's less waiting and inconvenience for your patients, and less disruption for your diagnostic CT suite.

- Supports a wide range of procedures from biopsies and drainages to RF ablations
- Real-time feedback on needle location during diagnosis, planning and intervention
- Ideal patient access throughout the procedure



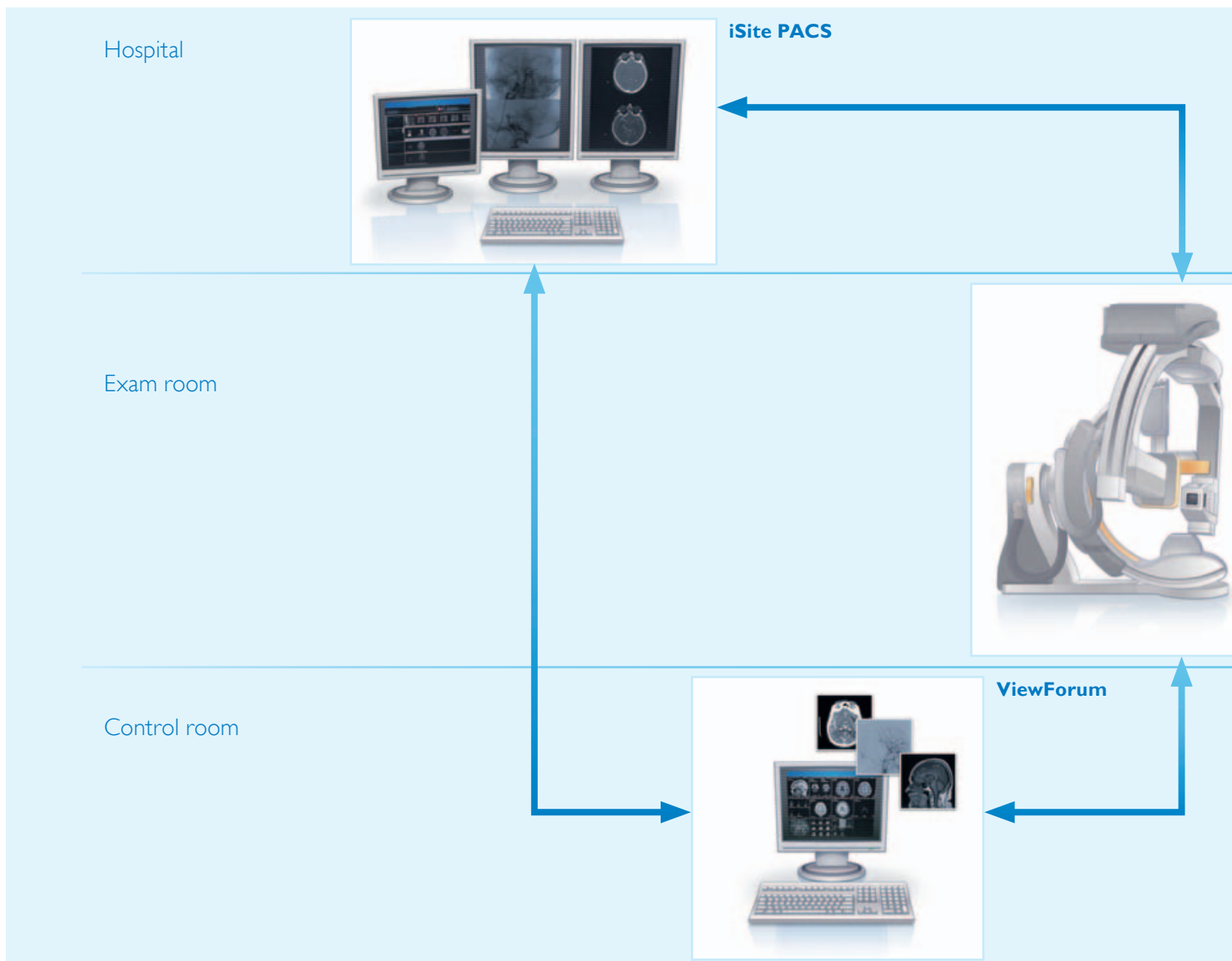
XperCT



XperGuide

Easy and fast access to

The increasing complexity of procedures is compounded by the pressures on you and your team to perform more procedures. So, more than ever, you need easy and fast access to all relevant information and clinical data, preferably integrated with departmental IT systems. That's why Philips provides an integrated environment that brings together all the information you need, where you need it. So you can manage and improve your procedures and departmental efficiency with ease.



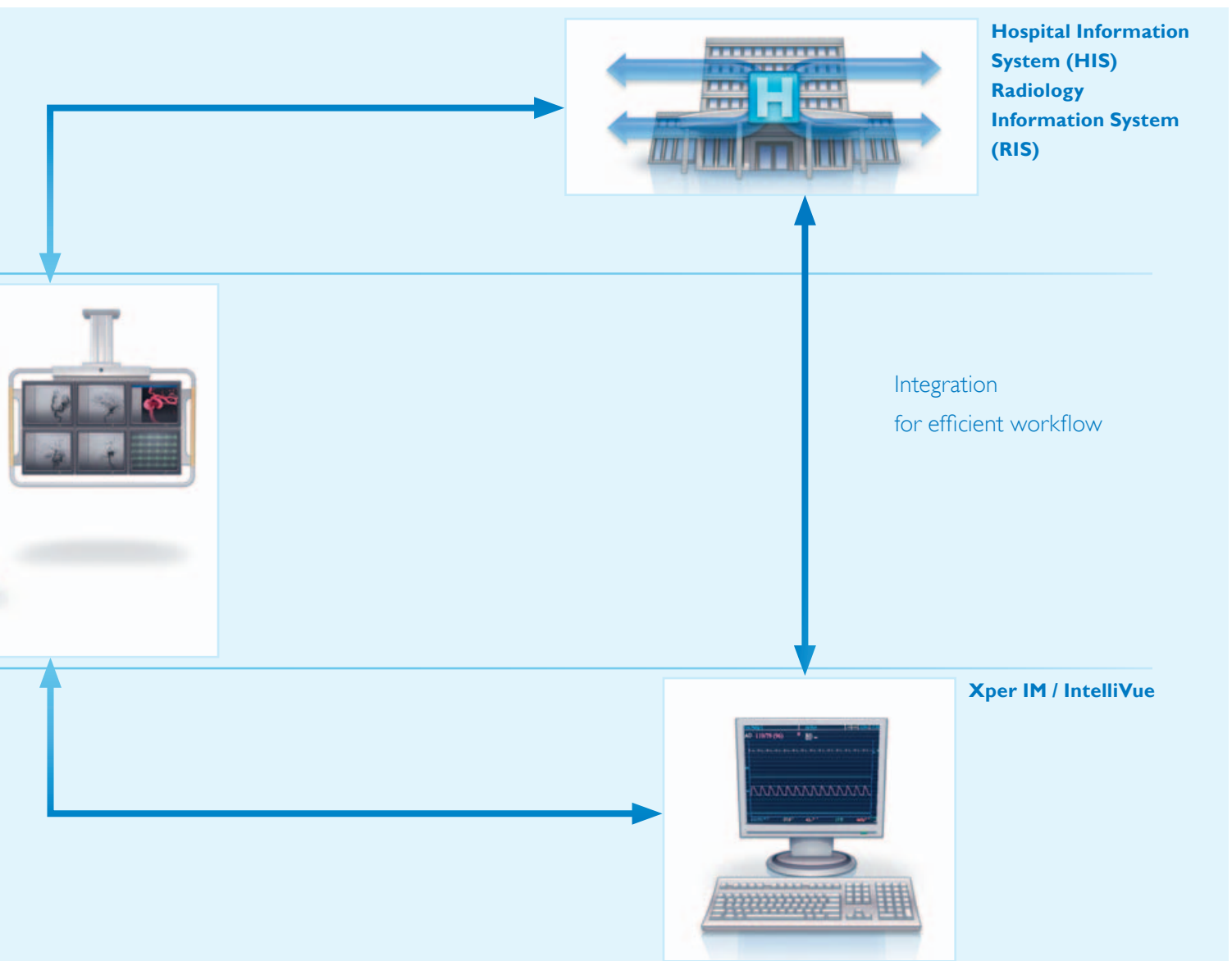
your patient data

Streamlined patient and procedure management

- Access to previously acquired diagnostic data from CT, MR and X-ray
- Operational integration with HIS/RIS and iSite PACS to save space in the control room
- Parallel working allows for post-processing of a patient in the control room, while treating another patient in the exam room
- Medical reports sent with clinical images to referring physicians
- Automatic archiving of clinical images to flexible destinations.

Integrated interventional environment to assist with fast and accurate decisions

- Access and control of multi-modality information in the exam room
- Integration with Philips IntelliVue for patient monitoring
- Integrated hemodynamic monitoring and electronic clinical reporting as well as billing and inventory management by Xper Information Management.



An open door to the

Philips provides a full lifecycle solution designed around your patients, your people, and your organization. We help you succeed in every phase of system ownership, from planning to start-up, through peak usage and renewal.

With more than 5,000 Allura systems in use worldwide, Philips has become the trusted choice of radiologists around the globe. Why? In one word: reliability.

How do you measure reliability? If you can start procedures when you arrive in the morning and end the day without equipment-related interruptions, that's reliability. Allura has been tested in the busiest institutions in the world, passing with flying colors.

The Allura Xper biplane series are especially reliable in the long term. Our wide choice of options enables us to configure a solution that perfectly addresses all your needs, your application mix, and your budgetary requirements. It's also designed to grow with you, with timely upgrades so that it remains optimally productive in the years to come.

Philips Remote Services

Philips Remote Services provide the advanced diagnostics that help minimize downtime even more. Your equipment remains more reliable through Remote Proactive Support, remote diagnoses and fast repair. And with Remote Desktop assistance, you allow us to see what is on your screen. You can even allow our experts to perform certain tasks for you from a distance, making our remote help as efficient as possible. Best of all, our Remote Services solution is offered free of charge to customers with a Philips Platinum, Gold or Silver service agreement and during warranty.

Keep your technology fresh

Choose Philips Technology Updates, so you can keep your system fresh with an update of the purchased interventional tools like Allura 3D-RA or XperGuide. You and your staff get free clinical education with each update, ensuring you stay as advanced as your system.



future



More patient comfort, less stress

At Philips we obviously focus on the system itself, but then we look further. Even with the most advanced technology, the human factor remains critical. We consider the total interventional experience and we have created the unique 'ambient experience concept'.

Ambient experience maximizes comfort and minimizes stress for both patients and staff by using a combination of lighting, music and architectural elements to create a uniquely soothing and comfortable environment – in the waiting room, in the procedure room, and in the control room. This revolutionary concept is based on a deep understanding of patient and medical staff needs: insights that help you create a more relaxing experience for your patients, a better working environment for your staff, and a unique competitive differentiator for your healthcare facility.

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