


Clinical demands are getting more specific. So are we.

Interventional procedures are expanding. New technologies and devices are creating very specific challenges, complexities, and needs.

Add to that the increasing number of procedures and patients and you can see the need for optimized workflows. That’s why we created clinical suites: a flexible portfolio of integrated technologies and services for cardiac, vascular, oncology, neuro and spine interventions. We also offer Hybrid OR solutions that create an innovative care environment for performing open and minimally invasive surgical procedures. Each of our clinical suites offers specific image guided therapy solutions to provide more choice and flexibility to avoid complications. So you can be confident in your performance and in the fact your patients are receiving exceptional care.

No matter what your need, we have the solution. There is no one-size-fits-all solution for interventional procedures. That’s why our clinical suites are tailored to meet your specific challenges while offering you the flexibility to carry them out in the easiest, and most efficient way.

To find out more about each of our clinical suites, simply go to the corresponding page.

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Transforming complex PCI procedures into confident care
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Seamless integration drives EP excellence
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SHD suite
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Spine suite
Perform spine surgery with confidence and precision
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The world of interventional cardiology is evolving rapidly. What worked for you yesterday may not be right for you today. New technologies and devices are continually adding complexities to your already complex procedures. Our PCI suite combines innovative technologies from Philips Devices with advanced imaging to support PCI procedures and intracoronary devices techniques.

PCI suite offers you cutting-edge innovations including Philips exclusive and proven iFR/FFR co-registration technologies that move physiology from justification to physiology guidance. And real-time image guidance aids you in placing devices in the right position while providing confident confirmation of results. Not to mention, ClarityIQ technology that provides high quality imaging for a comprehensive range of clinical procedures, achieving excellent visibility at ultra low X-ray dose levels.

**Key benefits**

- Provides real-time live navigational guidance and enhances visualization in complex PCI procedures
- Confident treatment decisions for optimized PCI with Philips’ exclusive iFR & FFR co-registration technologies
- Seamless integration of guidance technologies to simplify workflow and improve procedural efficiency

**Proven outcomes:** iFR-guided strategy compared to FFR-guided strategy

Consistent patient outcomes with significantly reduced patient discomfort

<table>
<thead>
<tr>
<th>Year</th>
<th>iFR-guided</th>
<th>FFR-guided</th>
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<tbody>
<tr>
<td>1</td>
<td>3.1%</td>
<td>30.8%</td>
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**DEFINE FLAIR** reported a 90% reduction in patient discomfort.

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<tr>
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<tbody>
<tr>
<td>1</td>
<td>3.0%</td>
<td>68.3%</td>
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**iFR Roadmap** provides an automated real-time co-registration of the iFR or FFR physiological measurement with its anatomical location on the Dynamic Coronary Roadmap.

**StentBoost Live** provides instantaneous enhanced visualization of positioning and deployment in real-time, eliminating the need for additional images before you reposition the device. It quickly helps you verify positioning before and after deploying balloons, stents, and intracoronary devices to display underdeployment and confirm full expansion.

** DEFINE FLAIR** reported a 90% reduction in patient discomfort.

**iFR Swedeheart** reported that with no hyperemic agent, you can achieve a 95.7% reduction in patient discomfort using an iFR-guided strategy.

- p = < 0.0001

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Seamless integration drives EP excellence

The global burden of cardiac arrhythmias is increasing. Patients with atrial fibrillation (AF), in particular, face an increased risk for stroke, dementia, heart failure, and death, and the number of affected patients is expected to double in the next 40 years.

EP suite offers solutions to address the growing AF patient population. It can seamlessly integrate all EP equipment of preference to create an electrophysiology lab solution that fits all requested clinical and financial requirements.

Key benefits

- Provides an ease-of-use platform for seamless integration into different lab environments
- Automates segmentation of the cardiac structures
- Enhances visualization of 3D cardiac anatomy
- Facilitates intuitive catheter navigation

With FlexVision Pro for Azurion, you can intuitively control the most critical lab instruments via a single mouse and keyboard to streamline the lab workflow, integrating established 3D mapping systems and remote tracking devices.

For treating atrial fibrillation, EP Navigator facilitates intuitive 3D catheter image guidance during AF ablation procedures. It provides detailed 3D anatomy, which can be overlaid onto live fluoroscopy, removing the need for a 3D mapping system. Or this data can be exported to a compatible 3D mapping system to help manage dose and reduce procedure time.
A paradigm shift is under way in the treatment of structural heart disease. From transcatheter aortic valve replacement (TAVR) to left atrium appendage occlusions (LAAo), minimally invasive interventional procedures are on the rise. Our SHD suite aims to remove the barriers associated with these complex treatments by delivering relevant clinical value where it’s needed most – at the point of patient treatment. Comprised of intuitive tools with integrated imaging modalities, the SHD suite enhances communication and workflow among your heart team and helps optimize real-time navigation.

**EchoNavigator**
Automatically fuses live TEE and live fluoroscopic images, in real-time to intuitively and quickly guide your device in 3D space. It simplifies navigation and device placement, and improves communication within the heart team.

**HeartNavigator**
Designed for streamline planning, device selection, and projection angle selection. It automatically segments tissue, anatomical structures, landmarks, calcium and anatomical planes using cardiac CT data. During the procedure, HeartNavigator provides live image guidance to support you in positioning a device.

SHD suite offers users clear anatomical guidance during all types of structural heart disease procedures and simplified navigation for accurate device placement. Our Hybrid OR room solution promotes increased confidence and flexibility for performing TAVR and other complex cardiac procedures in a surgical environment.

**Planning to live guidance for SHD procedures**

**Key benefits**
- Streamlines SHD procedure planning, device selection, and live image guidance for greater confidence
- Fuses live 3D TEE and live fluoroscopic images for a better view of structures
- Manage radiation exposure with ClarityIQ technology for cardiac procedures

**Reference 5**

"The beauty of good imaging is that you don’t have to imagine too much."
Professor J. Zamorano, Head of Cardiology, University Hospital Ramon y Cajal, Madrid, Spain
VesselNavigator
Fusion technology that merges 3D vascular anatomical information from existing CTA and MRI datasets with a live X-ray image. It provides an intuitive and continuous 3D roadmap to guide you through vasculature during the entire procedure, thereby reducing the need for a conventional contrast enhanced roadmap.

2D Perfusion
Imaging technology that visualizes the restoration of blood flow to the region of interest. It helps to compare perfusion characteristics in micro- and macro-circulation pre-and post-intervention, allowing you to see and quantify the effects of revascularization procedures immediately while the patient is still on the table, enabling you to determine if additional treatment is necessary.

Vascular suite
Redefining outcomes for vascular treatment

Vascular interventions are becoming more diverse and complex. An increasing patient population, the development of new devices, and an uptake in the complexity of minimally invasive procedures mean you need to see better to perform better. Our Vascular suite does just that by providing outstanding imaging even in the most difficult procedures. And when it comes to defining a treatment strategy, for example, with a Critical Limb Ischemia (CLI) procedure, our Vascular suite provides remarkably detailed insights into anatomy, pathology and perfusion. With our Hybrid OR solutions for vascular surgery and interventions, you can confidently perform advanced endovascular aneurysm repair (EVAR) and other complex vascular procedures in a full surgical environment. So whether you’re delicately navigating a guidewire or selecting the appropriate therapeutic device in challenging vasculature, you’re able to see and understand the full perspective of the anatomy. What’s more, it protects your staff and patients by managing radiation and contrast dose, all in a fast, accurate, and intuitive way.

Vascular suite offers planning and visualization tools for the most demanding vascular interventional procedures.

Key benefits
- Makes imaging and therapy simpler, more informative, and less invasive to promote confident decisions
- Supports standardization and consistency of vascular workflows to save time and money
- Excellent visibility at ultra low X-ray dose levels for a comprehensive range of clinical procedures with ClarityIQ technology

2D Perfusion finally puts objective information behind the tough questions I face during PAD interventions. Have I done enough, and is the tissue around the wound perfused?

Jihad Mustapha, MD - Metro Health Hospital, MI, USA

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Neurovascular intervention and surgery are changing rapidly as more diseases are treated with less invasive techniques. New devices offer new treatments, but smaller and less radio opaque devices also present new challenges when it comes to placement and treatment assessment.

Meet Neuro suite. Its high quality imaging puts you in firm control whether you’re visualizing the smallest intracranial vessels, precisely placing a flow diverter, treating an acute ischemic stroke patient, or working slowly through a complex arteriovenous malformation. It can also simplify your workflow, shorten procedure time, and manage radiation dose, and that means everything when your patients’ lives are at stake.

**Key benefits**

- Displays vessel anatomy and device apposition to the lumen in never-before-seen detail.
- Enhances neuro workflow and patient handling to promote new efficiency and consistency.
- Elevates treatment confidence with dynamic live image guidance through complex vascular lesions.

**AneurysmFlow**

Post-intervention functional assessment of blood flow can be difficult. AneurysmFlow is designed to give you real-time information before and after treatment. It visualizes and quantifies flow changes for greater confidence in procedural effectiveness.

**XperCT and VasoCT**

The ability to visualize sub-millimeter vascular anatomy and embolic material improves the chances of success and shortens procedure time. The XperCT volume can be acquired right in the Neuro suite and helps identify subtle soft-tissue lesions. VasoCT provides high resolution 3D imaging that reveals key information about cerebral vascular structures to support the highest possible spatial assessment of vessels in the soft tissue context.

VasoCT is done after every intervention in my institution. It provides an immediate feedback on our interventional result. It is a must for us.”

Dr. Pedro Lylyk, ENERI clinic, Buenos Aires, Argentina
Minimally invasive oncology interventions continue to offer multiple significant benefits for cancer patients. In every successful intervention, critical insight and careful orchestration between imaging, treatment planning, and live guidance play a vital role.

You have to be able to spot all tumors including those on the periphery of the organ, easily access them, deliver targeted embolization/ablation, and finally, determine procedural success in the shortest time possible.

Onco suite provides tools for successful intervention and removes the barriers to efficient and reproducible treatments with groundbreaking visualization. Consistency and precision offered by the Onco suite platform leads to superior care and confident performance.

Key benefits

- Provides a comprehensive solution for planning and image guidance of embolization and ablation procedures
- Supports treatment of multiple lesions simultaneously with Live Image Guidance
- Improves lesion detection with high spatial resolution and enhanced contrast-to-noise performance
Spine surgery was traditionally an “open surgery” procedure. Surgeons accessed the affected area via a large incision and they could physically see and touch the patient’s spine to position implants such as pedicle screws. In recent years, however, there has been a definite shift to the use of minimally-invasive techniques. Surgeons manipulate surgical tools through small incisions in the patient’s skin to minimize blood loss and soft tissue damage, and consequently reduce postoperative pain. Due to the inherently reduced visibility of the spine during these procedures, surgeons have to rely on real-time imaging solutions to guide their surgical tools and implants. The same is true for minimally-invasive cranial surgery and surgery on complex trauma fractures.

Spine suite offers advanced 2D and 3D (intra-operative) imaging to enhance understanding of the spinal bony anatomy, allowing the clinician to better understand the clinical problem and select the appropriate treatment strategy. Our Hybrid OR solutions promote increased confidence and flexibility for performing spinal surgery.

Key benefits

- Provides industry-leading 2D and 3D imaging that boosts confidence and enhances precision throughout the procedure.
- Reduces the need for post-op CT verification by providing excellent in-room cone-beam CT imaging.
- Enhances the user experience thanks to greater movement flexibility, intuitive positioning guidance, and enhanced patient access.
- Supports diverse spine, neuro, and orthopedic procedures in Hybrid OR solutions.
Our image guided therapy clinical suites are a combination of the Azurion platform, interventional solutions, devices, workflow options, accessories, education, and services. We also offer room solutions and support to create a leading-edge Hybrid OR. Since all solutions are integrated, you have the flexibility to configure a treatment environment that matches your clinical challenges and requirements.

Flexibility is the key to success when designing your clinical suite. They’re designed to enable you to be very specialized in one specific therapy area. Or they can take on multi-therapy tasks allowing you to use one lab for different procedures. Whatever your needs are, we provide a comprehensive range of options and support to help you realize a suite that fits your clinical and budgetary requirements. You can find an overview of our full offering on pages 22-23 of this brochure.

Flexibility, the key to meeting today’s changing clinical realities
Azurion – one platform, an endless array of clinical possibilities

Based on the three principles of superior care, lab performance, and unique user experience, Azurion provides a consistent standardization of care. Backed by our clinical suites, it’s an invaluable platform to improve workflows, and provide new treatment options.

What makes Azurion so unique?

With its wide range of intervention tools, Azurion is designed to help you perform procedures more efficiently and consistently with fewer complications. It also offers greater user customization and control over every aspect of interventions.

With our Azurion 7 Hybrid OR solutions, you can even realize an innovative surgical care environment that offers unmatched procedural flexibility and ease of use, while meeting the highest standards for surgical infection control and hygiene.

“We can manipulate integrated IVUS, PACS and all IVR tools by using FlexVision Pro. Therefore there is no need for additional staff to support these tools during the procedure.”

Masanori Tateuchi, Clinical Engineer, Sapporo Heart Center
Our clinical suite offerings

Create your perfect clinical suite. We offer a comprehensive range of options and support to help you realize a suite that fits your clinical and budgetary requirements.

Our offerings also include advanced education, efficiency programs, and RightFit service agreements.

PCI suite
System platform: Azurion 3 F12, 7 C12, 7 B12/12
ClarityIQ technology
Dedicated PCI products: Dynamic Coronary Roadmap
Intelligent Coronary Roadmap
StentScape Live
CardioScape 3D
CT Triangulation
Dedicated PCI devices: IBUS, IBUS Flex, IBUS Scout
AngioSculpt PTCA Scoring Balloon Catheter
Integrated tools: SYNCHRONx, ELCA coronary laser atherectomy catheters
Integrated tables: CORE Integration, EPQF1 ultrasound
Xper IM
IntelliSpace Cardiac/Vascular
XperFlex Cardiodyne Portal
DoseAware
Accessories: Radial access arm board

EP suite
System platform: Azurion 3 F12, 3 F15, 7 C12, 7 C20, 7 B20/12
ClarityIQ technology
EchoNavigator
Integrated tools: CARTO, CARTO Uniris
Xper IM
IntelliSpace Cardiac/Vascular
XperFlex Cardiodyne Portal
DoseAware
Accessories: Radial access arm board

SHD suite
System platform: Azurion 7 F12, 7 C12, 7 C20, 7 B12/12, 7 B20/12
ClarityIQ technology
Dedicated SHD products: HeartNavigator
EchoNavigator
Integrated tools: XperCT Dual (with TEE), XperCT Dual
IntelliSpace Cardiac/Vascular
DoseAware
Accessories: Radial access arm board

Vascular suite
System platform: Azurion 3 F15, 7 C20, 7 C20 FlexMove
ClarityIQ technology
Dedicated Vascular products: VesselNavigator
VasoCT
XperCT Dual
XperGuide
3D Roadmap
Integrated tools: Xsio Matrix ultrasound
DoseAware
Accessories: Radial access arm board

Neuro suite
System platform: Azurion 7 B20/15, 7 C20
ClarityIQ technology
Dedicated Neuro products: AneurysmFix
2D Perfusion
MR/CT Roadmap
3D Roadmap
Integrated tools: CX50x Matrix ultrasound
DoseAware
Accessories: Neuro headholder, Neuro table top

Onco suite
System platform: Azurion 7 C20
ClarityIQ technology
Dedicated Onco products: EmboGuide
XperGuide Ablation
3D Roadmap
Integrated tools: CX50x Matrix ultrasound
DoseAware
Accessories: Radial access arm board

Spine suite
System platform: Azurion 7 C20, 7 C20 FlexMove
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Dedicated Spine products: XperCT Dual
Integrated tools: Xsio Matrix ultrasound
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Integrated tables: Maquet Magnus O.R., Trumpf TruSystem 7500 O.R.

* Check availability in your Market