Electrophysiology suite
Greater insight and confidence in EP procedures

1. Results obtained during user tests performed in November 2013 by Use-Lab GmbH, an independent company. The tests involved 30 USA-based clinicians (15 physicians teamed up with 15 nurses or X-ray technicians), who performed simulated procedures in a simulated OR environment. None of them had worked with a Philips C-arm or with each other before.


3. stoptheclot.org/about-clots/afib-2

4. cdc.gov/dhdsp/data_statistics/fact_sheets/fs_atrial_fibrillation

5. Results are specific to the institution where they were obtained and may not reflect the results achievable at other institutions.

6. VMQ 7.0 Claims evidence Report Document. "Results based on internal comparison between 40Hz and 80Hz in a set of 15 USA-based institutions; results may be different from other institutions.

7. It is the user’s responsibility to ensure that Philips network requirements (such as performance, security, and IT infrastructure) are met.

8. While using KOD EPR, occlusion functionality is enabled for all procedures. The system automatically activates the EPR functionality once the procedure begins.

9. VMQ 7.0 Claims evidence Report Document. "Results based on internal comparison between 40Hz and 80Hz in a set of 15 USA-based institutions; results may be different from other institutions.

10. VMQ 7.0 Claims evidence Report Document. "Results based on internal comparison between 40Hz and 80Hz in a set of 15 USA-based institutions; results may be different from other institutions.


15. Comparison of ablation force vs. advancement rate of Laser sheath 40Hz vs. 80Hz by use of the data collected in D015722, Data on file at Philips.

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Defining the future of image-guided therapy

Innovative solutions across the health continuum

At Philips, we look beyond technology to the experiences of patients, providers and caregivers across the health continuum, from healthy living to prevention, diagnosis, treatment and home care. We unlock insights leading to meaningful innovations from hospitals to home.

Our integrated solutions — packaged suites of systems, smart devices, software and services — combine broad and deep clinical expertise, technology and services, actionable data, consultative new business models and partnerships. Together, with our customers, we can transform how care is delivered and experienced, to deliver upon the Quadruple Aim: improved patient experience, better health outcomes, improved staff experience, and lower cost of care.

At Philips Image Guided Therapy, we have played a pioneering role in image-guided minimally invasive therapy for cardiovascular disease since the inception of the field back in the 1950s, thanks to our expertise in X-ray imaging systems. We aim to both improve existing procedures and introduce new procedures for better image guidance and interventional devices to help make treatment and decision-making more effective. At the same time, you’re looking to enhance workflows as the key to improving efficiency. That’s why we created our clinical suites; a flexible portfolio of integrated technologies, devices and services for a broad range of interventional procedures.

Each of our clinical suites offers specific image-guided therapy solutions to provide more choice and flexibility for exceptional care. You can be confident your patient is receiving the best possible care with the best technology. Together we aim to shape and create the future of image-guided therapy.

Introducing Clinical Suites

Helping to bring across our comprehensive clinical propositions

Clinical demands are getting more specific. And so are we. During an interventional procedure you are focused on making the best decisions you can for your patient. Each patient and each disease has very specific challenges, complexities and needs. As the number of procedures and patients grow, you see the need for better image guidance and interventional devices to help make treatment and decision-making more effective. At the same time, you’re looking to enhance workflows as the key to improving efficiency. That’s why we created our clinical suites; a flexible portfolio of integrated technologies, devices and services for a broad range of interventional procedures.

Healthy living
Prevention
Diagnosis
Treatment
Home care

Coronary suite
Transforming complex PCI procedures into confident care

EP suite
Greater insight and confidence in EP procedures

SHD suite
Confidence and efficiency in structural heart Interventions

CHD suite
Gentle care, powerful insights.

Vascular suite
Reinvent outcomes for vascular treatment

Neuro suite
Neuro decisions are based on what you see, so see more

Lung suite
All-in-one diagnosis and treatment of lung cancer

Spine suite
Perform spine surgery with confidence and precision

Onco suite
Critical insights for superior care in interventional oncology

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The global burden of cardiac arrhythmias is increasing. Patients with atrial fibrillation (AF), in particular, face an increased risk for stroke, dementia or heart failure. The number of affected patients is expected to double in the next 40 years. Electrophysiology (EP) solutions address this growing AF patient population. It can seamlessly integrate all your preferred EP equipment to create an electrophysiology lab solution that fits your requested clinical and financial requirements. Philips is focused on addressing key unmet needs in EP procedures today. We strive to provide superior imaging with the lowest possible radiation dose, offer more efficient workflow, optimize the quality of care and improve safety for patients. Our Azurion with ClarityIQ technology enables physicians to deliver fast and effective electrophysiology procedures with an efficient clinical workflow, while delivering excellent visibility at low X-ray dose levels for patients of all sizes. The KODeX-ePD system provides real-time, high-definition imaging that visualizes true anatomy during atrial fibrillation (AF) procedures using dielectric imaging. No ionizing radiation or contrast medium is required with this technology. These images allow variations in cardiac anatomy, including accessory veins, that might otherwise be missed using conventional imaging and mapping systems.

Azurion and KODeX-ePD together deliver innovation to offer the right tools for the unique procedure and patient. With the streamlined image visualization on FlexVision and FlexSpot, our ablation solutions are here to meet your needs and your staff’s needs every time.

Our Zenition family of mobile C-arms offers proven, ease of use without compromising image quality. This portfolio of products can help hospitals and clinicians deliver a flexible and cost-effective solution for cardiac rhythm device implantation.

Only Philips has the imaging expertise and broad portfolio of EP technologies to help you achieve this future. We invite you to join us on this journey.

Greater insight and confidence in EP procedures

**Electrophysiology suite**

**33.5 million**

People worldwide suffer from AF

**$ 6 billion**

AFib costs have been estimated at a year in the US alone

**People with AFib are nearly 5 times more likely to suffer a stroke than people without AFib**

**In AFib, the heart beats 100-175 times a minute, compared to a normal range of 60-100**

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**Organize and de-clutter the EP lab**

Control room clutter can be a nuisance in EP labs. With the Azurion integrated lab, controlling all compatible applications is easy with the FlexSpot. It gives you access to all compatible applications in one compact, customizable workspace that can be placed in the control room or exam room where needed.

- With FlexVision, you can now control all compatible applications in the interventional lab via the central touch screen module.
- The Azurion image-guided therapy platform offers proven tools and workflow innovation that empower you to decide, guide, treat and confirm with confidence.
- Advanced therapeutic and diagnostic devices and technologies enable you to personalize treatment decisions.

**Key benefits**

- Clutter-free and comfortable lab environment
- Streamlined workflow through lab integration
- Fast lab turnover between procedures
- Secure clinical performance and enhanced lab security over time (Windows 10 platform)
With Azurion, performance and superior care become one

With the Azurion image-guided therapy platform, the core of the EP suite, your medical teams benefit from a seamless user experience and the simplicity of table-side control that can improve EP lab workflow. At the table, you can control specialty EP diagnostic and therapy tools, for example your EP recording system or pre-operative CT without breaking sterility, enabling safe and effective treatment for a wide variety of routine and complex EP interventions.

Lab integration saves valuable procedure time by reducing equipment and workflow steps in the EP lab. Table-side control saves you from going to the control room to access applications. Data entry repetition is reduced by automatically transferring patient information to connected applications. You only enter patient information once. During procedures, smart solutions like ClarityIQ and Zero Dose positioning provide efficient dose management. This responds to a growing demand for enhanced patient and employee safety by providing low-dose X-ray that does not compromise image quality.

Reduction in procedure time by up to 17%, potentially letting you treat more patients each day.
KODeX-ePD system for cardiac imaging and mapping
Advancing imaging in electrophysiology

Despite advances in imaging and mapping technologies for electrophysiology, physicians are still encountering difficult challenges when performing interventions like cryo and RF ablations. The new KODeX-ePD system is an open platform that works with any qualified EP catheter and uses dielectric imaging to give physicians new insights to guide their interventions. It has been developed to address key unmet needs in EP procedures today. It is a completely new approach to cardiac imaging that shows real-time high-definition imaging of true anatomy and creates voltage and activation maps.

KODeX-ePD uses dielectric sensing to build anatomy, discriminate cardiac structures and assess tissue properties. Dielectric imaging creates high-definition 3D images of a patient’s cardiac structures in real-time, without using ionizing radiation or contrast media. This technology overcomes many limitations of the current technologies and offers benefits for both cryo and RF ablation procedures. It has the potential to provide new insights into complex cardiac structures and greatly simplify navigation and therapy delivery.

The KODeX-ePD system is a catheter-based dielectric imaging system to guide EP ablation procedures. This new imaging modality is initially targeted for, but not limited to, atrial fibrillation.

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KODeX-ePD Occlusion Viewer provides an indication of pulmonary vein occlusion for Medtronic’s cryoballoon ablation catheter without X-ray.

Simplify your workflow for more efficient procedures
Optimize your quality of care
See true anatomy without radiation
Personalize therapy based on intraprocedural insights

High-resolution images are obtained from the tip of any qualified catheter with 3D and PANO technology. This is done without using ionizing radiation or contrast medium. The system also provides electroanatomical mapping functionality.

The KODeX-ePD Occlusion Viewer provides an indication of pulmonary vein occlusion for Medtronic’s cryoballoon ablation catheter without X-ray.
Orchestrating your interventional cardiology workflow

IntelliSpace Cardiovascular
IntelliSpace Cardiovascular combines deep clinical expertise with technological innovation to securely connect patients, care teams and data across the entire cardiovascular care continuum by providing a single point of access anytime and virtually anywhere to support informed decision-making.

The Cardiology Timeline maintains an overview of the complete cardiac history of the patient, enabling easy navigation to the information needed.

Within IntelliSpace Cardiovascular you can create, review and finalize structured cardiac implantable electronic device (CI eD) follow-up reports in the Pacing ICD Check module with imported programmer data. It can be viewed and controlled from the FlexSpot and FlexVision Pro of Azurion, allowing for easy intra-procedural check of pre-operative information.

Key benefits
• Allows you to view and control multi-modality patient data at the table side in the exam room on IntelliSpace Cardiovascular with Azurion FlexVision Pro, without having to break scrub
• Enables you to control IntelliSpace Cardiovascular from Azurion FlexSpot in the exam room, or from a workstation in the control room
• Automatic in-context patient launch from Azurion to IntelliSpace Cardiovascular (as of 5.1)

Philips Hemo system with IntelliVue X3
Improving productivity and outcomes is a vital for healthcare facilities to meet the growing demand for cath lab services. Philips introduces the Interventional hemodynamic system (Philips Hemo system) which brings advanced hemodynamic measurements to the interventional lab. Integrated with the market-leading Philips IntelliVue X3 patient monitor, this unique combination enables continuous patient monitoring throughout the cath lab. By connecting the IntelliVue X3 in the cath lab with the Philips-Hemo system, you can continuously monitor a patient. There is no need to change cables, minimizing disruption and giving you more time to focus on your patient.

Key benefits
• Improved communication in the interventional lab by visualizing hemodynamic analyses in the exam room
• Confidence, usability by all staff members with minimal training

Xper Information Management
Xper IM is designed to enable more efficient cath lab workflows with hemodynamic monitoring and data management. It streamlines workflows in physician reporting, billing, registry reporting and inventory management. Xper IM has a broad range of interfaces, enabling disparate patient data across the care continuum to support informed decision making.

Key benefits
• Automated data collection and customized charting workflows, for example for lab results and updates
• Auto populated physician transcription based on the charting input
• Intelligent cardiovascular data management with analytics capabilities
See clearly. Treat optimally. Support across the entire treatment pathway.

**Decide**

**EchoNavigator**
Echocardiography makes it possible to view and control the latest ultrasound images in live fusion imaging. EchoNavigator uses SmartFusion to fuse live TEE and live fluoroscopy images in real time. This allows you to intuitively and quickly guide your device in the 3D space. TEE images provide views and can be automatically displayed in the X-ray image, moving the echo and X-ray images in sync when the C-arm is repositioned.

**EPIQ CVxi**
EPIQ CVxi delivers the exceptional image quality expected in a premium ultrasound system, along with efficiencies in procedure guidance driven by interventional dedicated tools and a cardiology-focused interface.

**Guide**

**Treat**

**KODeX-EPD – Advanced Imaging**
KODeX-EPD provides critical information in cardiac anatomy without fluoroscopy. During ablation procedures, the Occlusion Viewer provides an assessment of pulmonary vein occlusion, further reducing the dependence on X-ray.

**KODeX-EPD – Mapping**
KODeX-EPD creates continuously updated voltage and activation maps to support efficient collection of additional insights and confirm therapy impact.

**Confirm**

**Lead management devices**
With an aging patient population, more complex devices and expanded indications, lead management devices support physicians in safely managing every CI lead. These tools provide enhanced confidence in the ablation and lead extraction process from the intervention. KODeX-EPD can focus more on the patient’s overall health while assuring positive outcomes.

**KODeX-EPD – Advanced Imaging**
KODeX-EPD provides critical information in cardiac anatomy without fluoroscopy. During ablation procedures, the Occlusion Viewer provides an assessment of pulmonary vein occlusion, further reducing the dependence on X-ray.
**EchoNavigator on EPIQ CVxi**

Unparalleled visualization of anatomy and devices. Together.

Philips EPIQ CVxi delivers the exceptional image quality you expect in a premium ultrasound system, along with efficiencies in procedure guidance for LAAO, driven by dedicated interventional tools and a cardiology-focused interface.

**Advanced automation**

At the heart of this powerful architecture is advanced automation, designed to elevate the standards of ultrasound systems with anatomical recognition, protocols for automatic functionality and proven quantification. Exams are easier to perform and more reproducible, and deliver new levels of clinical information.

**Simplify navigation, device guidance and evaluation of results**

EPIQ CVxi makes it possible to view and control the latest innovation in real-time fusion imaging, EchoNavigator. It uses SmartFusion to fuse live TEE and live fluoroscopic images in real-time. This allows you to intuitively and quickly guide your device in the 3D space. TEE transducer position and orientation are automatically tracked in the X-ray image, allowing the echo and X-ray image to move in sync when the C-arm is repositioned.

The EPIQ CVxi’s 3D Auto LAA feature can reduce measurement time by 70% on average compared with measuring the LAA features manually.

Elevating intra-procedural echo guidance for left atrial appendage occlusion

In LAA occlusion, EchoNavigator enables the following to elevate confidence and boost efficiency:

- Automatic segmentation of 3D ultrasound to derive the left atrium and LAA ostium in order to optimize fluoroscopic projections and provide context for navigation.
- Manual markers automatically translated from ultrasound to fluoroscopy to keep sight of targets or critical structures to avoid.
- Live-on-live fusion of fluoroscopy and ultrasound including 2D, 3D, and color flow, to visualize occluder deployment.

**High safety. Low radiation. ClarityIQ technology**

High standards of safety and low radiation exposure

Several Azurion features have a focus on dose management. Our dose management solutions help you take control of patient care and staff safety, with a comprehensive suite of radiation dose management tools, training and integrated product technologies.

“With Philips ClarityIQ technology we can further enhance image-guided catheter ablation therapy for complex heart rhythm disorders. The number of people with arrhythmia eligible for catheter ablation therapy is increasing sharply, so treating the condition needs to be made simpler and even safer. In addition to minimizing the risk to patients, reducing X-ray dose is also an important step for medical personnel, because many of them are exposed to X-ray radiation on a daily basis.”

Lukas Dekker, cardiologist, Heart Center at Catharina Hospital, Eindhoven, the Netherlands

[Image of a diagram showing various medical equipment and a patient number, 15029, with 28 showing on the left side.]

[Additional text about Philips technology and its benefits in various medical procedures, emphasizing safety and efficiency.]
Improved patient outcomes

Lead extraction in CIED infection can be a life-saving procedure. Yet, over 60% of CIED-infection patients are treated inappropriately. Any patient with a CIED and an infection should be referred quickly for a lead extraction consultation, as data shows delaying lead extraction can lead to mortality. Philips is dedicated to helping physicians and patients manage every lead – safely, responsibly, predictably with the Philips Lead Management portfolio of safe and effective tools.

GlideLight laser sheath

- Versatility – No two lead removal procedures are the same. Each binding site is unique, lead designs vary, and every patient’s anatomy is different.
- Efficiency – Stalled progression during lead removal procedures can lengthen the time they take to complete. GlideLight laser sheath may enable smoother and more consistent progression.
- Control – Using high degrees of mechanical force when removing leads can compromise lead integrity. GlideLight laser sheath provides critical control when progressing through binding sites.

Safely and efficiently removing leads depends on tools that give you versatility and control. GlideLight laser sheath offers the unprecedented ability to customize the laser’s repetition rate throughout a procedure. At 80 Hz, the GlideLight laser sheath requires up to 55% less advancement force than laser sheath (SLS II) and advances up to 62% more efficiently through tough binding sites than laser sheath (SLS II).

TightRail mechanical rotating dilator sheath

With TightRail mechanical rotating dilator sheath, flexibility meets unparalleled control. The tool’s flexible shaft helps physicians remain coaxial to the lead while maintaining forward progression through tortuous vasculature. The dilating blade remains sheathed until activated, putting physicians in control and allowing counter-traction at the targeted leads distal tip.

Bridge occlusion balloon

A tear in the superior vena cava (SVC) during a lead extraction procedure is rare, occurring in just 0.5% of cases. But when a tear does occur, the Bridge occlusion balloon can be quickly deployed to stop blood loss and allow time for transition to surgical repair.

Manage every lead

Zenition Mobile C-arm

Unlimited potential at your fingertips

Work with ease and confidence today and tomorrow with Philips Zenition – a series of harmonized mobile C-arms that offer proven ease of use and future-fit capabilities.

Rising patient volumes and longer, more complex procedures put ever greater demands on imaging systems. Being able to quickly manipulate critical details of imaging during challenging procedures is key to providing excellent patient care. The Zenition series of mobile C-arms provides a wide variety of today’s and tomorrow’s international procedures with confidence, while effectively managing radiation dose.

Key benefits:
- Increase efficiency with user-friendly controls and efficient time-savers
- Reduce distractions with Zenition’s tablet-like simplicity and communication aids
- 45% less miscommunication during positioning through our patented Unified Workstation Communication aids
- Perform longer and complex procedures to serve a broad patient population
- Up to 49% reduction in Dose Area Product (DAP) with Automatic Shuttle Positioning protects patient anatomy and in-room personnel from unnecessary exposure
- Safeguard clinical performance and extend your system’s clinical relevance

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Indications for use: The GlideLight laser sheath is intended for use as an adjunct to conventional lead extraction techniques in patients with evidence of chronic infection caused by a chronic implanted lead or device with acute or subacute infection. Contraindications: Use of the laser sheath is contraindicated: When emergency thoracotomy with cardipulmonary bypass is considered to be the only preventable risk of the use of the laser sheath; Potential adverse events: The following adverse events or conditions may also occur during lead extraction with the laser sheath, but were not observed during the study: Bacterial translocation, bacteremia, lung damage, migration of lead fragments and device, myocardial avulsion/perforation, sepsis, ventricular tachycardia, ventricular fibrillation, cerebral embolism, stroke, pulmonary embolism, stroke, myocardial infarction, and death.

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Increase value throughout your electrophysiology suite lifecycle

Stay clinically and operationally relevant with Technology Maximizer

To keep your image-guided therapy suite state-of-the-art with regards to cyber security, clinical and operational advancements, subscribe to IGT Technology Maximizer.

Technology Maximizer secures all your eligible Philips imaging equipment with the same technology release level reducing maintenance complexity and simplifying lifecycle management across hospital departments. Maintain peace of mind with imaging equipment that is always up to date, and enhance patient care knowing you will always be first to take advantage of technology innovations.

### Standard offer
- Azurion system SW version upgrade
- State-of-the-art security
- Latest available Operation System
- Computer HW refresh to support software upgrade
- New version of existing iApps
- New version of existing iApps

### Mid-level offer
- Azurion system SW version upgrade
- State-of-the-art security
- Latest available Operation System
- Computer HW refresh to support software upgrade
- Application training for new or enhanced functionality (days)
- Future iApps in one clinical domain (Coronary, EP, SHD, Vascular, Neuro, Onco, Spine or Lung)

### Premium offer
- Azurion system SW version upgrade
- State-of-the-art security
- Latest available Operation System
- Computer HW refresh to support software upgrade
- Application training for new or enhanced functionality (days)
- Future iApps in one clinical domain

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**Application**

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<th>KODEX-EPD</th>
<th>Laser and mechanical extraction</th>
<th>CVxi &amp; EchoNavigator</th>
<th>Hemo system with IntelliVox X3</th>
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**Availabilities**

- Azurion procedures
- Device implants
- Lead removals/ extractions
- Hybrid procedures (LAAC, Ex-Maze)