



**PHILIPS**

Cardiology

# Clinical efficiency to empower better heart care

Philips coronary artery disease care

## Globally, coronary artery disease (CAD) is twice as prevalent as any other cardiac disease.<sup>1</sup>

As the prevalence of CAD grows, interventional cardiologists are feeling the strain. With an ever-increasing caseload and strained resources, delivering confident diagnoses and efficient, cost-effective high-quality care presents significant challenges.

The key to unlocking the power of diagnostic confidence, optimal outcomes, and time savings is clinical efficiency.

Philips empowers providers to deliver care for coronary artery disease through purposeful innovations that work together to deliver clinical efficiency throughout the care pathway.



When a patient shows symptoms of CAD, our solutions work together to enable quick, confident diagnosis.

Through seamless integration, we support clinical decision making to select the right treatment for the patient by providing the right data at the right time.



Once a patient is brought into the cath lab, we enable effective, efficient procedures through our optimized cath lab workflow options.

Together, our solutions are designed to deliver robust clinical results, along with connected workflows to drive departmental efficiency—and ultimately contribute to improved outcomes.





## Quick, confident diagnosis

Around 40% of all patients sent to the cath lab are found to have normal coronary arteries. Despite the high prevalence, this is a group that rarely receives a definitive diagnosis.<sup>2</sup> Better patient risk stratification is a significant need, to ensure that appropriate patients are selected for PCI.

At the same time, there are challenges in achieving diagnostic confidence. Non-invasive diagnostic exams that deliver suboptimal images can result in costly retesting, and clinicians often have difficulty accessing tools, images and reporting that can enable multi-modality diagnosis.

What if you could streamline diagnosis with fast access to full diagnostic data and reduced exam time?

### Our solution

Philips cardiology solutions provide robust, reproducible diagnostic insights while reducing the time from the start of the exam to results in hand—whether you are using spectral CT or cardiovascular ultrasound. The integrated systems of spectral CT and advanced visualization deliver multiple layers of data in a single, low-dose scan. Ultrasound measurement and analysis is seamlessly connected to the cardiology informatics workspace for multi-modality analysis and reporting. Both the cath lab and clinical physicians have quick access to complete diagnostic data, advanced analytics, and reporting to aid in treatment planning.

With the right diagnostic information in hand, clinicians have increased confidence in their decisions as they move the patient along the care pathway and into treatment.



## Effective, efficient treatment

More patients who have complex disease, or who are classified as high-risk, are becoming eligible for minimally invasive cardiac procedures.<sup>3</sup> But optimal treatment planning is hindered by the fact that 2D coronary angiography has limitations for detecting and assessing coronary stenosis. In fact, the DEFINE PCI clinical study, showcases that one in five patients left the cath lab with residual ischemia<sup>4</sup>—further highlighting the need for deep clinical insights to inform treatment decisions.

What if you could access more comprehensive clinical insights and increase confidence in treatment selection—all while reducing procedure time?

### Our solution

Philips cardiology solutions work together to provide more comprehensive and timely clinical insights that can improve outcomes, while optimizing treatment planning and minimizing time spent. Image-guided therapy, iFR, IVUS and hemodynamic monitoring, as well as cardiac pre-procedure planning and advanced applications, are all connected to the image-guided therapy interface to allow viewing, manipulation, and custom configuration on the monitor from a single controller at table side or from the control room.

With timely access to comprehensive clinical insights, clinicians can deliver optimized treatment plans and move each patient through treatment as efficiently as possible.

# Innovative solutions that connect throughout the care pathway

## Diagnosis



**Cardiac Ultrasound Systems—EPIQ CVx**  
Provide advanced capabilities including automated applications for 2D assessment of the heart, as well as robust 3D right ventricle volume and ejection fraction measurements—making accurate exams faster.



**Single-seat workstation solution—TOMTEC-ARENA**  
Integrates with EPIQ to effectively harness clinical information from cardiovascular imaging with off-cart review, rendering and advanced quantification in 2D and 3D imaging modes.



**Spectral CT**  
Supports diagnostic confidence in a single scan by providing spectral results in every scan, with no additional workflow steps.



**Advanced Visualization Solution—IntelliSpace Portal 12**  
Offers CT Comprehensive Cardiac Analysis, with automatic extraction and visualization of the coronary tree, as well as enhanced automatic labeling of the different coronary segments. The interventional bookmark enables quick transfer of diagnostic data from the imaging cardiologist to the interventional cardiologist to aid in treatment planning.

## Treatment



**Image Guided Therapy System—Azurion**  
Provides the ability to treat one more patient per day, reducing procedure time by 17%<sup>5</sup> with optimized workflow options in image guided therapy and clinical software. Dynamic Coronary Roadmap integrates seamlessly into standard of care workflow and in daily clinical practice.



**Interventional Applications Workstation—IntraSight**  
Provides more comprehensive clinical insights with seamless integration of iFR/FFR, IVUS and co-registration tools that improve patient health outcomes.

**Cardiovascular Workflow Solution—Xper Information Management (Xper IM)**  
Streamlines your workflow by integrating clinical systems and administrative functions.

**Interventional Hemodynamic System with IntelliVue X3**  
Brings advanced hemodynamic measurements to the cath lab. It integrates with the Philips IntelliVue X3 patient monitor to enable continuous patient monitoring before, during, and after the procedure.

**Instant Wave-Free Ratio—iFR**  
The leading hyperemia-free physiologic index for measuring pressure in diagnostic and interventional procedures, which can improve outcomes, save time, and reduce patient discomfort.<sup>7,8,9</sup> iFR is measured using the world's first solid core pressure guide wire, OmniWire,<sup>6</sup> with values co-registered directly on the angiogram.<sup>8,9,11</sup> This advanced physiologic guidance helps identify precisely which parts of a vessel are causing ischemia, to help determine treatment strategy.

**Intravascular Ultrasound—IVUS**  
See more clearly and improve patient outcomes with informed pre-stent planning and post-stent optimization.<sup>10</sup> Map the 3D vessel anatomy to the angiogram to understand precisely where the disease begins and ends.

**Multi-modality Image and Information Management Solution—IntelliSpace Cardiovascular**  
Delivers seamless access to images and information anytime, virtually anywhere, for the entire care team through an integrated advanced analytics platform.

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