



PHILIPS

Image guided therapy

Hemo system

Monitor - measure - record

Improving workflow in the interventional lab

Key advantages:

- Improved communication in the interventional lab by visualizing hemodynamic analyses in the exam room
- Enhanced workflow through integrated FFR
- Confidently used by all staff members with minimal training

Philips Interventional Hemodynamic system

Brings advanced hemodynamic measurements into the interventional lab to support clinical decision making. This system includes a patient monitoring device mounted at the table side and a workstation in the control room with a user interface designed to simplify hemodynamic monitoring and assessment. The users in the control room can also perform hemodynamic analyses and display them in the exam room. Displaying all relevant physiologic waveforms and analyses supports you in making a real-time assessment of the patient's condition during an intervention.

Improved communication in the interventional lab by visualizing hemodynamic analyses in the exam room

In the control room, clinical staff can monitor all of the patient's vital signs, analyze physiological parameters and easily display calculation results in the exam room. These results are displayed as a numerical value and a gradient image. Displaying numerical and graphical results helps clinical staff stay focused on the tasks at hand without the need to leave the sterile area.

Team members in the exam room can now visualize and adapt vital signs and physiological calculations easily at table side using the Touch Screen Module. Being able to control visualizations and adapt measurements on the Touch Screen Module helps improve workflow by letting you perform more tasks at table side.

100%

of the users believe that visualization of analyses in the exam room **improves communication** with the control room¹

Enhanced workflow through integrated FFR

The fully integrated functional measurement option is your gateway to bringing the latest physiological techniques into the interventional lab. It allows you to perform and analyze Fractional Flow Reserve (FFR) measurements in both the exam and control room.

These technique can provide valuable functional information regarding the severity of lesions in the coronary arteries. FFR measurements are displayed in real time and stored as part of the automatically populated hemodynamic record.

100%

of the users believe the system provides an **enhanced workflow** due to the integration of fraction flow reserve (FFR) functionality.

Confidently used by all staff members with minimal training

The new user interface provides on-screen guidance to help team members smoothly proceed through procedures and work efficiently with each other. The interactive heart diagram on the workstation aids team members in the control room in quickly performing pullbacks and changing the pressure labels.

The steps required to perform specific tasks are highlighted in the control panel to provide guidance to easily perform measurements. These features promote ease of use by all staff members with minimal training, allowing flexible staff rotation in the interventional lab.

88%

of the users believe the system can be **confidently used** by all staff members with minimal training¹

¹ Results obtained during usability study performed in December 2016. The study involved 33 participants. Participants were spread evenly over technologist/nurses and physicians. To evaluate benefits of the multi-user capabilities of the new system design and user satisfaction, its novel design was tested by participants that had relevant working experience in the interventional lab and who had not previously used the new system.



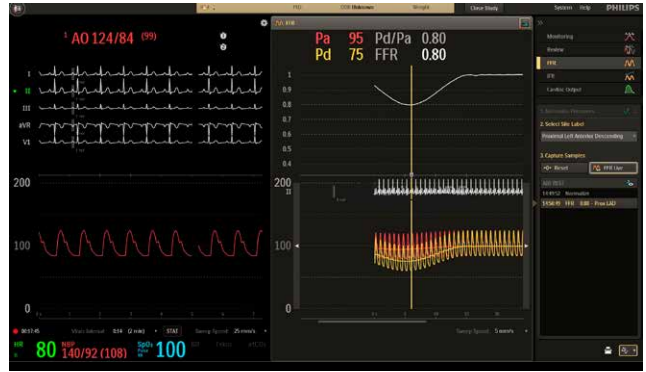
Hemodynamic analyses performed in the control room can be shown in the exam room to help the users to stay focused on the task at hand.



Control of Philips Hemo on Touch Screen Module



Improved communication between control room and exam room



Integrated FFR



Graphical interaction and user guidance through the procedure



Confidently used by all staff members with minimal training

Integrated with your Philips X-ray system and Xper Information Management (IM) to streamline lab workflow

Your Philips interventional X-ray system and Hemo system work efficiently together to reduce manual data entry. This in turn may reduce user entry errors, help improve the integrity of your reports and minimize interruptions. All aimed at helping you focus on your patient and communicate effectively with your team. Xper IM helps you create more efficient workflows with physiomonitors and cath lab data management, facilitating collaboration across the cardiovascular teams with less effort on your part.

For example, it provides a single point of contact for pre-, during and post-procedure documentation and reporting. Xper IM populates the final cardiac report with patient data, and interfaces with HIS, PACS and EMRs to avoid redundant data entry and to integrate patient records in reporting, including patient demographics, hemodynamic measurement and calculations, an arterial tree overview for stent and balloons as well as a complete overview of device, medication, sedation, patient charges and so on. Xper IM also streamlines workflows in billing, registry reporting and inventory management.



Fits your clinical workflow

You can choose from a variety of configurations of the Philips Interventional Hemodynamic System to get the best fit for your interventional lab:

- Each system comes with a small, reliable and user-friendly patient monitoring device. It's small enough to hold in your hands and can be easily mounted where you need it most. When suitably positioned, you have unrestricted access to your patient from nearly any position, without restricting table movement.
- The single and dual display configurations are available. With the dual display configuration in the control room you can always view patient monitoring, hemo analyses and reports on a full screen.
- You can easily control visualization of vital signs and all measurements from the table side using the Touch Screen Module option on the Philips interventional X-ray system.

System specification of Philips Hemo system

- Comprehensive hemodynamic measurements and analysis
- Non-invasive blood pressure (NIBP)
- Pulse oximetry (SpO₂)
- Four invasive blood pressure channels
- Body surface temperature
- 12 Lead Surface ECG
- Thermodilution Cardiac Output
- Fick Cardiac Output
- Respiration rate
- Capture and store hemodynamic waveforms and ECG's
- Full disclosure (record, store all waveforms data for post case review and analysis)
- End of case reporting (hemodynamic measurements and calculations)
- Print waveforms and hemodynamic analysis
- Storage of all patient data

Optional packages

- Integrated FFR measurements (compatible with Philips and St. Jude)
- Main- and side stream EtCO₂
- Procedure/event charting and data collection
- Rolling stand

Integrated with Philips interventional x-ray system

- Hemo control from Touch Screen Module
- Patient demographics
- Connected to Monitor Ceiling Suspension or FlexVision

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