New products

Philips integrated cath lab

The Philips integrated cath lab concept provides easier access to clinical data for simplified interventional care. Presented at the Cardiovascular Research Foundation’s (CRF) nineteenth annual Transcatheter Cardiovascular Therapeutics (TCT) scientific symposium held in Washington DC, USA, from October 20-25, 2007, Philips integrated cath lab concept comprises a range of technologies that enhance workflow by incorporating key visualization, image analysis and patient data management tools into the catheterization laboratory.

In the integrated cath lab concept, CT and MRI examinations help clinicians spot and diagnose the first signs of heart abnormalities. Next, cardiovascular X-ray technologies are complemented by hemodynamic monitoring, charting, post-procedure reporting and cardiovascular image management solutions, delivering clinical data when and where it is needed to help manage a patient through the whole care cycle from early diagnosis to treatment to wellness and follow-up.

As a patient undergoes a variety of treatment options for cardiovascular disease, Philips’ flexible cath lab products integrate important patient data from around the hospital to foster better collaboration between the cardiologists and the clinicians who provide diagnosis, planning and treatment.

New Xper system release

A new Xper system release features an Xper table optimized for percutaneous coronary intervention (PCI) techniques and hybrid procedures involving both interventionalists and cardiothoracic surgeons. Tools for enhancing PCI techniques include the latest version of StentBoost, providing both lumen and stent views, as well as Volcano’s integrated IVUS. IVUS provides detailed and accurate measurements of lumen and vessel size, plaque area and volume, allowing physicians to make more informed decisions during PCI.

The new system release also marks the production release of Philips CT TrueView. This system allows direct importation of CT Angiography (CTA) from Philips Extended Brilliance Workspace, into the Philips Xper cath lab.

Live 3D Transesophageal Echo

Philips Live 3D Transesophageal Echo (TEE) application enables cardiologists, cardiac surgeons, interventionalists, anesthesiologists and echocardiographers to view multiple perspectives of the heart. The Live 3D TEE is the result of combining and miniaturizing two cutting-edge technologies: the 3D power of xMATRIX technology and the exceptional image clarity of PureWave crystal technology. This combination provides heart specialists with additional information for diagnosis, treatment planning, monitoring and assessment, which was previously unavailable to them.

Integrated Data Management

The Philips Xcelera R2 cardiovascular information management solution provides a scalable central workspace for a wide range of imaging modalities used in cardiology, bridging the clinical information gap between diagnostic...
cardiology, invasive cardiology and electrocardiography (ECG) management by providing rational interoperability across these unique, yet related domains.

Simplified access to all relevant information facilitates knowledge sharing, saves time and helps to improve patient management at lower costs. **Xper Information Management**

In addition to Xcelera’s image management and analysis capabilities in the cath lab, Philips Xper Information Management enhances workflow before, during and after interventions. During procedures, Xper Information Management features comprehensive hemodynamic monitoring and charting, as it precisely captures and integrates data at the point of care. To expedite post-procedure workflow, Xper Information Management presents robust clinical reporting and data mining capabilities integrated with the system database, charting and scrapers.

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**Cliniscape MCA**

The Cliniscape MCA (Mobile Clinical Assistant) is a new category of mobile point-of-care devices that addresses the need of nurses and physicians to have patient data at their fingertips, anywhere in the hospital or clinic. It integrates all the features needed to increase patient safety and reduce administrative workload.

Based on Windows XP Tablet PC edition, an Intel Core Solo CPU with a 40 GB hard-disc, WLAN 802.11a/b/g and an easy-to-read 10.4 inch XGA touch-screen with digitizer, the new Philips MCA combines a number of features on a single platform, including:

- an RFID reader for user authentication and identification of patients, medication, blood containers and other clinical specimens
- an optional built-in barcode scanner to support bar-code based identification protocols
- Bluetooth for cordless connection of devices such as a heartbeat or blood-pressure sensor, telephone headset or dictation microphone
- 2 Mpixel camera for on-line capture of digital pictures of patient wounds
- Medical grade compliance to allow its use in clinical areas where traditional laptops or tablet PCs are not allowed.

Designed as a semi-sealed device (IP54) the MCA can easily be wiped clean with disinfectant to reduce the risk of infection. Its durable design makes the MCA able to withstand knocks and drops (1 m). The lightweight device (1.4 kg) is provided with a handgrip on the back, allowing it to be held flat with the minimum fatigue. The long-life battery (3.5 hrs) can be easily exchanged for a fresh one in the docking station without disrupting applications currently in use. The “grab and go” docking comes with 3 USB ports and one Ethernet jack to allow the MCA to be used as a desktop device while docked.

The MCA category was defined by Intel Digital Health and has the support of a number of leading healthcare EMR vendors. The MCA can be used for wireless access to various Philips applications such as CareVueChart, iSite, Xcelera Webforum and TraceMasterVue, helping to ensure seamless information flow throughout the hospital.

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**Green Flagship products**

Green Flagship products are products that meet Philips’ rigorous environmental standards in manufacturing and use. To be considered as a Green Flagship product, the product must first undergo a divisional EcoDesign procedure. Next, the product is benchmarked in six green focal areas and must perform significantly better (>10%) than comparable products in at least one of them.
Based on this analysis, the product must be shown to:

- Have the best environmental performance in the market, or
- Be the most innovative environmentally friendly product in its class, or
- Be the best environmental solution in its application area.

The following products meet Philips Green Flagship standards for healthcare products.

### IntelliVue MMS X2 multi-measurement module

The Philips IntelliVue MMS X2 is an enhanced multi-measurement module that can be used with any compatible Philips IntelliVue patient monitor. Once detached from the host monitor, it becomes an independent, battery-operated transport monitor with its own display, alarm function and the ability to store up to 24 hours of patient information.

As soon as it is reconnected to another IntelliVue host monitor, the IntelliVue MMS X2 behaves like a conventional multi-measurement module, with stored patient monitoring data being automatically uploaded into the new monitor without interruption in monitoring. If equipped with wireless networking capability, the IntelliVue MMS X2 can also transmit data directly to an IntelliVue Information Center, allowing clinicians to have access to a complete, continuous record of patient monitoring data wherever the patient may go: from emergency room to operating room to ICU and recovery.

The Intellivue MMS X2 is available with up to 12 ECG leads, with multi-lead arrhythmia and ST segment analysis, respiration, \( \text{SpO}_2 \) (choice of advanced technologies) and non-invasive blood pressure, plus a choice between invasive blood pressure and temperature, or mainstream and sidestream \( \text{EtCO}_2 \).

The Intellivue MMS X2 makes it possible to provide a dedicated monitor for every patient that comes into an emergency room or other area of the hospital. The patient can remain connected to the module for the duration of care, with no gaps in the monitoring record, even when the Intellivue MMS X2 is attached to a high end IntelliVue, or during transport through to discharge. This provides greater continuity of care and more confident assessment of treatment.

The IntelliVue MMS X2 is a Philips Green Flagship product.

### IntelliVue MP2 patient monitor

Based on the same compact design as the IntelliVue MMS X2, the IntelliVue MP2 is a light, compact patient monitor offering benefits for users in and outside of the hospital. Small hospitals and surgery centers can benefit from a rugged, compact, full-featured patient monitor that offers clinical decision support tools such as ST Map and Horizon Trends, and the ability to connect to the IntelliVue Clinical Network. These features enable clinicians to assess patient information and make confident care decisions. Users outside of the hospital, including government, law enforcement, civilian applications and disaster relief organizations, have expressed a need for a stand-alone monitor that can capture patients’ vital signs while being durable enough to withstand the rigors of use in the field. The IntelliVue MP2 also features a highly configurable display that can be set up to meet these users’ individual needs.

The Intellivue MP2 and Intellivue MMS X2 were shown at the European Society of Intensive Care Medicine (ESICM) congress in Berlin (October 7-10, 2007) and at the American Society of Anesthesiologists (ASA) meeting in San Francisco (October 13-17, 2007).