

GE Discuss Flexibility of Cath Lab Solution



GE Healthcare's Mac-Lab haemodynamic recording system brings new features and functionality designed to help make the lab more productive, minimise workflow and data storage obstacles, and enable more procedures per day.

Each year, cardiovascular disease causes more than 4.3 million deaths in Europe. That is nearly half (48%) of all deaths in Europe³. As a result, millions of cardiac catheterisations are performed annually. This minimally invasive procedure is used primarily to diagnose or treat heart disease.

GE Healthcare's Mac-Lab recording system is used during cardiac cath and interventional radiology procedures for the acquisition, display, recording and monitoring of clinical data from adult and pediatric patients. New features and functionality are designed to address the need for a convenient way to document during these procedures, streamline workflow to potentially help see more patients daily, and decrease potential for errors or loss of data.

"In a dynamic patient care environment, the ability to respond to constantly changing circumstances is critical. The new Mac-Lab hemodynamic recording system is intended to help simplify workflow and minimise bottlenecks, so the focus can be on the patient, not the process," said Reaz Rasul, General Manager of Interventional Cardiology, GE Healthcare.

Typically, a cardiac cath study record is interrupted as the patient is moved from one care area to another. Now, streamlined Multi-Path documentation and reporting helps the user document cases with few interruptions. The user has the flexibility to start a report anywhere on the network and to document on multiple stations simultaneously—enabling a constant stream of a patient's clinical data from the pre-procedure holding area, to the lab, into recovery. Studies are automatically pulled by the Centricity* INW server after completion, eliminating the need to push studies manually.

In the Multi-Path workflow, each new study is created on the acquisition system in the procedure room where the study will be performed. Review workstations can join or leave any study at any time.

Invasive Workbenches helps expand the power of Mac-Lab recording, enabling scientific research on any previously acquired Mac-Lab dataset. It interfaces directly with MATLAB** algorithmic development software and its powerful suite of signal processing tools and graphics, making it possible to develop and apply custom algorithms to analyze signals post-procedure.

This powerful tool supports low-cost testing of early hypothesis or investigations. When a hypothesis is proven, screen capture of waveforms, algorithms, and case data makes it easy to create papers suitable for publication. The system supports statistical analysis through MATLAB or via export to Excel**.

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