Improve Patient Flow and Patient Care

Despite great advances in care, prompt treatment of STEMI patients remains a leading challenge worldwide.

STEMI:

✓ Strikes when we least expect it
✓ Can be tough to diagnose
✓ Requires collaboration among multiple patient care teams for success

And it all has to happen very quickly.

With the LIFEPAK 15 monitor/defibrillator, Physio-Control brings to market the third generation of 12-lead ECG acquisition and transmission.

STEMI is a dynamic event. STEMIs aren’t broken bones and ECGs are not x-rays. Because transient changes with ECGs can completely alter patient diagnosis and resulting treatment, the 15 continuously monitors patients while you focus on treating the patient.

The LIFEPAK 15 monitor/defibrillator is designed to help you accurately diagnose and treat STEMI patients. It features:

- Easy and quick acquisition of a baseline, pre-medication 12-lead ECG
- Clinically proven Glasgow algorithm to clearly interpret 12-lead ECGs and to provide the information you need to help you make the correct diagnosis\(^{1,2,3}\)
- Continuous ST-segment monitoring in all 12 leads to quickly identify STEMI and alert you to ST-segment changes—the only company in the industry to offer this feature*\(^{4}\)
- Automatic transmission of a new ECG when changes occur, if configured to do so
- Seamless sharing of ECGs to speed treatment of STEMI patients

The pioneer in prehospital 12-lead ECG acquisition and transmission, Physio-Control continues to advance the state of the art, with more peer-reviewed published data on 12-lead ECG transmission than anyone in the industry.\(^{5,6,7,8,9}\)

“It is great to see the cath lab team waiting for the patient when we roll through the emergency department door.”

David Chisholm, Battalion Chief, Frederick County (MD) Division of Fire and Rescue Services
Seamlessly share ECGs to speed treatment of STEMI patients

Despite the 90-minute door-to-balloon (D2B) time recommended by the European Society of Cardiology, American College of Cardiology (ACC) and American Heart Association (AHA), many hospitals are unable to provide needed treatment that quickly.\textsuperscript{10,11} Receipt of a prehospital 12-lead ECG has a big impact in early STEMI patient identification—even bigger than having a cardiologist on-site 24/7.\textsuperscript{12} There is a trend to think beyond D2B times and start the 90-minute countdown at the first patient contact with EMS: EMS-to-Balloon (E2B) time.\textsuperscript{13,14}

EMS plays a vital role in positive STEMI patient outcomes—success relies on the transmission of accurate prehospital ECGs and coordinated regional systems.

Clinically-proven Glasgow algorithm for accurate cardiac diagnostics

- Developed by a team of world-renowned experts in ECG algorithm performance\textsuperscript{15}
- Validated against an extensive prehospital database to demonstrate accuracy with the initial ECG\textsuperscript{1,2}
- Accounts for many diverse parameters, including patient age and gender, for accurate STEMI identification

Information where it needs to be—now

The 15 in conjunction with the web-based LIFENET STEMI Management Solution creates an early warning system for STEMI patients:

- Allows for automatic, secure transmission of critical ECG data with multiple patient care teams simultaneously
- Confirms information was transmitted and received
- Securely links prehospital, emergency room and PCI treatment teams
- Supports appropriate patient triage and activation of the cath lab before patient arrival when warranted
- A subscription service, requires no dedicated equipment, servers or maintenance from your IT department

End result: better patient flow, with the goal of better patient outcomes

Quickly confirming STEMI diagnosis means patients are routed immediately to the facility that can best meet their needs:

- Mobilize the cardiac catherization lab if appropriate
- Reduces false-positive cath lab activations
- Free up the ED
- Enable EMS to move on quickly to the next case

On Scene

The LIFEPAK 15 monitor/defibrillator allows you to easily acquire a baseline pre-medication 12-lead ECG, and quickly identify STEMI and treat patients accordingly.

Whether responding to an emergency call...
Whether responding to an emergency call or ED walk-in, the LIFEPAK 15 monitor/defibrillator helps you focus on your patient.

Improve Patient Flow and Patient Care with the LIFEPAK 15 Monitor/Defibrillator

**Transmit**

Seamless integration with the LIFENET® STEMI Management Solution lets you securely share data with others who are critical to patient survival.

**Receive**

Patient ECG data arrives before EMS so patient can be routed to the right facility, where the hospital team is ready to provide lifesaving treatment.

**Act**

Provide best patient care and best use of scarce healthcare resources.

**Helps Shorten EMS-to-Balloon Time**

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Patient ECG data arrives before EMS so patient can be routed to the right facility, where the hospital team is ready to provide lifesaving treatment.

Provide best patient care and best use of scarce healthcare resources.

Continuous monitoring of ST-Segment in all 12 leads to quickly identify STEMI

- Works in the background to capture transient changes to ECGs while you tend to your patient
- Alerts you to any changes, with an automatic ECG print-out
- Automatically transmits a new ECG when changes occur, if you configure it to do so
- Doesn’t distract you with needless print-outs of stable ECGs

The larger 100mm printer results in more readable traces and easier interpretation and analysis of ECGs.

The clearest confirmation of STEMI available on any monitor/defibrillator.

A large screen to easily visualize the graph plotting the ST J-point with the greatest deviation.
REFERENCES


15 University of Glasgow, Section of Cardiology and Exercise Medicine, Royal Infirmary, Glasgow, U.K.

All information in this brochure, including comparative statements are valid as of February 2009.

For more information, please contact your sales representative or visit our website at www.physio-control.com