Proactive decision support for smart recovery

HemoSphere advanced monitoring platform

Edwards

HemoSphere advanced monitoring platform

Predictive decision support
The first-of-its-kind Acumen Hypotension Prediction Index (HPI) software predicts the likelihood of a patient trending towards a hypotensive event* and provides you with insights to understand the root cause and proactively inform a potential course of action for your patient.

*A hypotensive event is defined as MAP <65 mmHg for a duration of at least one minute.

Individualized patient care
Full-range compatibility with noninvasive, minimally-invasive and comprehensive catheter solutions allow you to pair a single monitor with the right device for your patient across different clinical settings and diverse patient profiles.

Comprehensive view of your patient
With a sleek and compact design, HemoSphere advanced monitoring platform offers a unique visual monitoring experience with enhanced screen clarity, intuitive navigation, and responsive touch for intelligent decision support during rapidly changing situations.

Fluid responsiveness test results

Cockpit

The monitoring platform of the future

HemoSphere advanced monitoring platform provides a comprehensive view of hemodynamics and tissue oximetry, giving you confidence in knowing that your patient has continuous oxygen saturation and is adequately perfused.

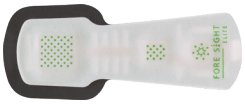
The only modular hemodynamic monitoring platform to offer full-range cuff, sensor, and catheter compatibility and first-of-its-kind hypotension predictive decision support software, HemoSphere advanced monitor enables proactive, individualized patient management.

Individualized patient care on a single platform

HemoSphere advanced monitoring platform offers full-range device compatibility for proactive decision support across a diversity of patient profiles and across care settings.

Noninvasive

ClearSight finger cuff
CO/CI • SV/SVI • SVV • SVR/SVRI • MAP
Delivers continuous blood pressure and advanced hemodynamic parameters in an noninvasive finger cuff.



ForeSight Elite tissue oximetry system
StO_2
Continuously monitors oxygen saturation, noninvasively.

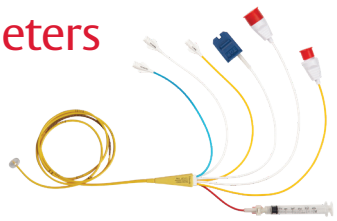
Minimally-invasive

Acumen IQ sensor
HPI • Ea_{dyn} • dP/dt • CO/CI • SV/SVI • SVV • PPV • SVR/SVRI • MAP
Unlocks the Acumen HPI software that predicts the likelihood of a patient trending towards a hypotensive event.*

FloTrac sensor
CO/CI • SV/SVI • SVV • PPV • SVR/SVRI • MAP
Delivers advanced pressure and flow parameters for managing perfusion. Connects to an existing radial arterial line.

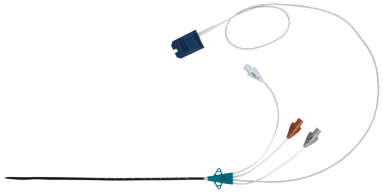
* A hypotensive event is defined as MAP <65 mmHg or a duration of at least one minute.

Catheters

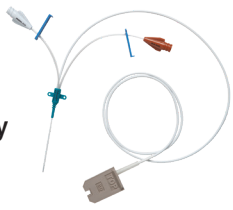


Swan-Ganz pulmonary artery catheter Now with 20 second flow parameters**
CO_{20s} • SV_{20s} • CO/CI • SV/SVI • SVR/SVRI • PVR/PVRI • RVEF/EDV • SvO_2 • CVP • PAP • PAOP
New algorithm combines thermodilution and pulse contour analysis to deliver cardiac output and stroke volume updates every 20 seconds. Continuously assesses flow, pressure, and oxygen delivery and consumption to assist in your early evaluation of cardiac performance.

** 20s parameters are available only when a TruWave sensor is connected in invasive mode.



Edwards oximetry central venous catheter
$ScvO_2$ • CVP
This triple lumen central venous oximetry catheter delivers the added capability of continuously monitoring central venous oxygen saturation.



PediaSat oximetry catheter
$ScvO_2$ • CVP
The first oximetry catheter designed for pediatrics delivers continuous, real-time monitoring of oxygen delivery and consumption.

Proactive decision support for smart recovery

Hemodynamic and tissue oximetry insights provided by HemoSphere advanced monitoring platform can help guide you with proactive decision support in cardiac and non-cardiac clinical situations so you can maintain optimal patient perfusion.

Cerebral and tissue desaturations
Cerebral desaturations are serious and may lead to complications such as post-operative cognitive dysfunction and increased incidence of stroke. Having a comprehensive picture of oxygen delivery and consumption may allow you to reduce the clinical implications of prolonged desaturations.

Hemodynamic Instability
Continuous access to pressure and flow parameters help to determine patient fluid responsiveness and guide individualized patient management to maintain optimal perfusion.

Sepsis management
Severe sepsis and septic shock are among the most important causes of morbidity and mortality in patients admitted to the intensive care unit.[2] Access to cardiac output (CO) and stroke volume (SV) enables early detection and management of sepsis which is critical to improving survival rates and reducing the economic burden of sepsis.

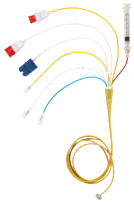
Hypotension
Hypotension is common. Studies show strong associations between intraoperative hypotension (IOH) and increased risk of acute kidney injury (AKI) and myocardial injury, which is the leading cause of postoperative mortality within 30 days after surgery.[1] Early detection of hypotension by continuous hemodynamic monitoring can reduce a patient's risk.

Solutions for smart recovery

HemoSphere advanced monitoring platform enables you to individualize patient care by choosing the right solution for your patient in each clinical setting. Solutions for smart recovery help you gain the specific insights you need to shape critical decisions that can have a meaningful impact on your patient's recovery.

Non-cardiac bundle

ClearSight finger cuff	Acumen IQ sensor	FloTrac sensor



Acumen IQ sensor	FloTrac sensor	Swan-Ganz catheter	Edwards oximetry CVC	ForeSight Elite tissue oximetry system*

Cardiac bundle

* ForeSight Elite tissue oximetry module only is included in the non-cardiac bundle

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For more than 50 years, Edwards Lifesciences has been helping you make proactive clinical decisions and advance the care of surgical and acutely ill patients across the continuum of care. Through ongoing collaboration with clinicians, providing continuous education, and our dedication to purposeful innovation, Edwards continues to develop smart hemodynamic management solutions that enable proactive decision support.

References

1. Salmasi, V., Maheshwari, K., Yang, G., Mascha, E.J., Singh, A., Sessler, D.I., & Kurz, A. (2017). Relationship between intraoperative hypotension, defined by either reduction from baseline or absolute thresholds, and acute kidney injury and myocardial injury. *Anesthesiology,* 126(1), 47-65.
2. Mayr, F., Yende, S., Angus, D. (2014). *Epidemiology of sever sepsis*. Vol 5 Issue.

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