

Changing the pace of hemodynamics

Smart. Innovation.



HemoSphere advanced monitoring platform

Proactive patient insights for smart recovery.

HemoSphere advanced monitoring platform offers advanced hemodynamic parameters that can help guide you with proactive decision support in a range of clinical situations and settings so you can maintain optimal patient perfusion.



Cerebral and tissue desaturations

Research demonstrates that cerebral desaturations have been associated with post-operative neurocognitive disorders, increased length of stay in both the hospital and ICU, increased incidence of stroke, and decreased survival. 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.



Hypotension

Recent studies show associations between intraoperative hypotension (IOH) and increased risk of acute kidney injury (AKI) and myocardial injury, which is the leading cause of post-operative mortality within 30 days after surgery.¹ Early detection of hypotension by continuous hemodynamic monitoring can reduce a patient's risk.



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.

The monitoring platform of the future.



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

With a sleek and compact design and responsive touch screen navigation, this platform offers a unique visual monitoring experience. Visual and clinical decision support that can be used across acute care settings.

A comprehensive view of your patient, every step of the way.

For each clinical decision moment, HemoSphere advanced monitoring platform enables proactive decision support across a diversity of patient profiles and across care settings.



Past trends

Allows you to select, place and track interventions over time while providing key trending data.



Present data

Depicts continuous changes occurring in your patient by delivering visual and numeric parameters.



Future insights

Acumen Hypotension Prediction Index software is a first-of-its-kind predictive decision support software that detects the likelihood of a patient trending toward a hypotensive event.*

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

Compatibility for individualized patient management.



Acumen IQ sensor

Part of the Acumen decision support suite, the Acumen Hypotension Prediction Index software is unlocked with the Acumen IQ sensor.



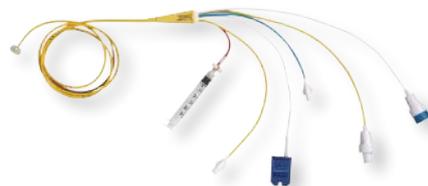
ForeSight Elite tissue oximetry system

ForeSight Elite sensors deliver accurate performance and precision in tissue oximetry. Reliable, real-time monitoring of surgical patients provides decision support for detecting and managing hypoxic events as soon as they occur.



FloTrac sensor

Delivers advanced pressure and flow hemodynamic parameters for managing perfusion. Offers continuous insight to determine patient's hemodynamic status. Seamlessly connects to any existing arterial catheter.



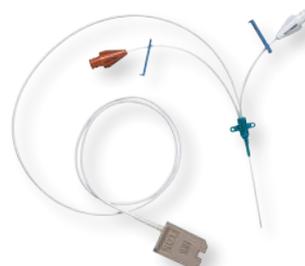
Swan-Ganz pulmonary artery catheter

Gives you the clarity of a comprehensive hemodynamic profile delivered by a single catheter. It allows you to continually assess flow, pressure and oxygen delivery and consumption, to assist your early evaluation in your critically complex patients.



Edwards oximetry central venous catheter

This triple lumen central venous oximetry catheter delivers the added capability of continuously monitoring central venous oxygen saturation.



PediaSat oximetry catheter

The first and only pediatric oximetry catheter with continuous SvO₂ monitoring for proactive monitoring of tissue hypoxia.

Individualized patient care on a single platform.

HemoSphere advanced monitoring platform has the capability to provide the parameters you need for your patient's continuum of care. Its modular design enables the monitor to pair with different clinical settings all through a single platform.

	Non-invasive	Minimally-invasive	Invasive			
	ForeSight Elite sensor	Acumen IQ sensor	FloTrac sensor	Swan-Ganz catheter	Edwards oximetry CVC	PediaSat catheter
StO ₂	•					
HPI		•				
Ea _{dyn} (HPI)		•				
dP/dt (HPI)		•				
CO/CI		•	•	•		
SV/SVI		•	•	•		
SVV/PPV		•	•			
SVR/SVRI		•	•	•		
PVR/PVRI				•		
SvO ₂				•		
ScvO ₂					•	•
RVEF/EDV				•		
MAP		•	•			
PAP				•		
CVP				•	•	•

Know more. Know now.

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For more than 40 years, Edwards Lifesciences has been helping you make proactive clinical decisions in advancing the care of acutely ill patients across the continuum of care.

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 severe sepsis*. Vol 5 Issue 1.

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