Noninvasive advanced hemodynamic monitoring

Smart. Innovation.

ClearSight system
Visual clinical decision support screens allow for beat-to-beat recognition of rapidly changing clinical situations.

Continuous access to your choice of parameters on the EV1000 clinical platform, when used with the noninvasive ClearSight system, enables you to maintain your patients in the optimal volume range.

**EV1000 clinical platform**

Color-based indicators communicate patient status at a glance, and visual clinical support screens allow for immediate recognition and increased understanding of rapidly changing clinical situations to help you make better decisions.

Easy-to-use touch screens allow selection of the parameters most meaningful for each clinical situation.

**Heart Reference Sensor**

The ClearSight system Heart Reference Sensor (HRS) compensates for hydrostatic pressure changes due to height differences between finger and heart. The HRS compensates for clinician repositioning of the patient’s hand during a procedure or for patient movement.

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**Advanced hemodynamic parameters help guide you to individualized fluid management in the OR and ICU.**
The ClearSight system is a noninvasive solution that offers you proactive decision support to help optimize perfusion.

Continuous data offered by the validated ClearSight system enables you to proactively optimize perfusion through hemodynamic management.

The ClearSight system provides advanced hemodynamic parameters and continuous noninvasive blood pressure from a noninvasive finger cuff.

**Extends hemodynamic monitoring**

The ClearSight system gives you noninvasive access to automatically calculated, beat-to-beat hemodynamic information for a broad patient population, including patients in whom an arterial line would not typically be placed. Noninvasive hemodynamic monitoring offered by the ClearSight system provides information to enable you to make proactive clinical decisions across the continuum of care, including moderate- to high-risk surgery patients, and can be utilized to manage patients’ changing clinical situations in surgical, as well as acute care settings.

**Advanced hemodynamic parameters**

- Cardiac Output (CO)
- Stroke Volume (SV)
- Stroke Volume Variation (SVV)
- Systemic Vascular Resistance (SVR)
- Mean Arterial Pressure (MAP)

A versatile approach to continuous monitoring

Upon starting a measurement, the finger cuff can be used and re-applied for up to 72 hours on one patient. To increase comfort, two ClearSight finger cuffs may be connected simultaneously to alternate the measurement between two fingers. This allows uninterrupted continuous monitoring.
Enables you to make proactive clinical decisions based on insights into pressure and flow parameters.

Advanced hemodynamic parameters can alert you to hemodynamic instability
The ClearSight system provides you access to advanced hemodynamic parameters, including continuous noninvasive blood pressure, allowing you to evaluate hemodynamic instability and guide appropriate treatment.

Episodes of hypotension may be decreased through continuous monitoring
Cleveland Clinic researchers recently showed that continuous noninvasive monitoring reduced the amount of intraoperative hypotension by nearly half ($P = 0.039$) when compared to intermittent blood pressure monitoring.²

Early detection of hypotension by continuous hemodynamic monitoring allows for timely remedial actions, thereby reducing intraoperative hypotension.²

Enabling you to proactively manage intraoperative hypotension (IOH)
Clarity through advanced hemodynamic parameters CO, SV, SVV, and SVR can help you determine if the cause of IOH is preload, afterload, or contractility.

If the underlying cause of hemodynamic instability is related to decreased flow, continuous parameters can help you determine whether fluid is the appropriate therapy.

Additionally, continuous monitoring of advanced hemodynamic parameters can help you determine whether to augment vascular volume, reduce anesthetic administration, or use vasopressors or inotropes.²

Continuous assessment of pressure and flow parameters offers decision support to help proactively manage the duration and severity of IOH episodes.
When managing perfusion, stroke volume can be optimized using the patient’s own Frank-Starling curve. The patient’s response to a fluid challenge may be assessed by changes in SV, as indicated by location on the curve. Dynamic and flow-based parameters provide a comprehensive hemodynamic assessment and may help guide individualized fluid administration to avoid over and under resuscitation.3

For additional clarity into whether a ventilated patient will respond positively to fluid, stroke volume variation (SVV) has been proven to be a highly sensitive and specific indicator of preload responsiveness.4-7

**Hemodynamic parameters help you manage volume administration**
Advanced hemodynamic parameters provided by the ClearSight system may be used in perioperative goal-directed therapy (PGDT) protocols.

PGDT analytics is a PC only desktop application designed to organize and visualize data download files from the EV1000 clinical platform.

**Helps you comply with 3-hour and 6-hour CMS sepsis bundle guidelines**
The noninvasive ClearSight system allows continuous assessment of your patient’s physiological needs and helps you recognize hemodynamic instability from sepsis.8

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The ClearSight finger cuff can be used to measure flow-based parameters continuously prior to, during, and after the fluid administration portion of the 3-hour and 6-hour CMS sepsis bundles.
ClearSight system

The ClearSight system is comprised of the ClearSight finger cuff and EV1000 clinical platform.

1. EV1000 monitor
2. EV1000 pump-unit
3. Pressure controller
4. ClearSight finger cuff
5. Heart reference sensor

Enabling proactive clinical decisions.

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. 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.

Know More. Know Now.

Visit Edwards.com/ClearSight or contact your Edwards representative.

References

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