What you need.
When you need it.
EV1000 Clinical Platform

The EV1000 clinical platform from Edwards Lifesciences presents the physiologic status of the patient in an entirely new, intuitive and meaningful way. Designed in collaboration with and validated by clinicians, the EV1000 clinical platform offers you scalability and adaptability for both the OR and ICU.

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The EV1000 clinical platform enables you to choose the parameters needed to monitor your patients and may be used with a variety of Edwards advanced hemodynamic monitoring tools for an integrated Edwards Critical Care System.
The EV1000 clinical platform provides the choice of the parameters you want to view and how you want to view them. The platform may be used with the Edwards advanced hemodynamic monitoring portfolio including the ClearSight finger cuff, FloTrac sensor, PreSep and PediaSat oximetry catheters and VolumeView set. The parameters provided by each are outlined below. Further, the platform provides a choice of screens so that you may view the parameters in a manner most meaningful to your clinical situation for visual clinical support.

**ClearSight Finger Cuff**  
(Noninvasive)  
The ClearSight system extends clarity to more moderate and high-risk surgery patients and noninvasively provides continuous hemodynamic monitoring including SV, SVV, SVR, CO and continuous blood pressure.

**FloTrac Sensor**  
(Minimally-Invasive)  
The FloTrac sensor easily connects to any existing arterial catheter and automatically calculates key flow parameters (CCO/CCI, SV/SVI, SV, SVR/SVRI) every 20 seconds, making it the practical and reliable solution for hemodynamic optimization in moderate to high-risk surgery.

**PreSep Oximetry Catheter**  
(Central Venous Catheter)  
The PreSep oximetry catheter continuously monitors central venous oxygen saturation (ScvO₂), which may be used in the Early Goal-Directed Therapy (EGDT) protocol¹ for the treatment of sepsis.

**VolumeView Set**  
(Transpulmonary Thermodilution)  
The VolumeView set provides volumetric parameters (EVLW, GEDV, GEF, PVPI, ITBV) and continuous, calibrated hemodynamic parameters (CCO/CCI, SV/SVI, SVV, SVR/SVRI).
**Guiding Platform**

The EV1000 clinical platform provides a choice of screen options to provide immediate insight to aid your therapeutic interventions. Presenting the physiologic status of the patient in an entirely new and meaningful way enables you to focus on your patient. Screen options include the real-time physiology screen (both intermittent and continuous), the cockpit screen, the goal positioning screen, graphical trend screens and the physio-relationship screen.

**Real-time Physiology Screen**

The real-time physiology screen visually depicts the dynamic changes occurring in your patient. By delivering parameters visually, as well as numerically, the EV1000 clinical platform allows you to more easily determine the root causes of a particular situation, further assisting and guiding your clinical decisions.

**Hemodynamic Optimization**

Monitoring non-invasive, dynamic values (SV) by volume loading during the surgical intervention and in the immediate postoperative period is a key strategy for reducing perioperative complications. Dynamic volume modelling can be utilized to set fluid therapies. Cardiovascular reserve can be utilized for optimizing the patient’s volumetric status. The key to maintaining the patient’s optimal volume range is understanding the relationship between oxygen delivery and consumption, allowing you to identify the root cause of the imbalance and the most appropriate intervention.

**Graphical Trend Screen**

The graphical trend screen allows you to select, view, and track interventions over time while providing key parameter trending data. The percentage change indicator provides additional insight into the patient’s condition.

**Continuous Physio-relationship Screen**

Continuous physio-relationship screens depict the balance between oxygen delivery and consumption, allowing you to identify the root cause of the imbalance and the most appropriate intervention.

**Goal Positioning Screen**

The Goal Positioning Screen (GPS) plots two key hemodynamic parameters against each other on the same X/Y plane. The blue pulsating sphere represents the current intersection of the parameters while the descending circles display the historical trend. The green target box indicates the desired clinical targets. This screen may be particularly helpful when implementing Perioperative Goal-Directed Therapy protocols.

**Visualized Physiology**

The EV1000 clinical platform presents patient hemodynamic information clearly and simply. 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 for improved decision making.

**Continuous Physiology Screen**

Continuous physiology screen is depicted in red, which indicates high-risk surgery, and green, which indicates low-risk surgery. Flow of blood cells represents cardiac output, and replications patient position on Frank-Starling curve. Heart rate reflects current heart rate, and heart size reflects patient volumetric status. Vasculature can depict vasoconstriction or vasodilation, and 5 levels of lung water shown in lungs.
**Guiding Platform**

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**Real-time Physiology Screen**

The real-time physiology screen visually depicts the dynamic changes occurring in your patient. By delivering parameters usually as well as numerically, the EV1000 clinical platform allows you to more easily determine the root cause of a particular situation. Further assisting and guiding your clinical decisions.

**Hemodynamic Optimization**

Matching mean arterial pressure (MAP) by volume loading during the surgical procedure or in the immediate postoperative period is a key strategy for reducing postoperative complications. Dynamic volume Intake (DVI) monitoring can be used to target fluid resuscitation. Cardiooutput measured continuously can be used in conjunction with SaO2 and lactate to adjust intraoperative goals with fluid boluses.

Two advanced hemodynamic parameters, when combined with a Perioperative Goal-Directed Therapy protocol, can help you monitor the patient's overall volume range. During surgery, as long as oxygen consumption is stable (ScvO2), you can use a target range for (DO2)+VO2.5% (ScvO2) is defined as the upper limit for targeted fluid resuscitation.

**Graphical Trend Screen**

The graphical trend screen allows you to select, place, and track interventions over time while providing key parameter trending data. The percent change indicator provides additional insight into the patient's condition.

**Physio-relationship Screen**

The physio-relationship screen depicts the balance between oxygen delivery and consumption, allowing you to identify the root cause of the imbalance and use appropriate intervention.

**Goal Positioning Screen**

The Goal Positioning Screen (GPS) plots two key hemodynamic parameters against each other on the same X/Y plane. The pulsating blue sphere represents the current intersection of the parameters, while the descending circles display the historical trend. The green target box indicates the intended physio-relationship.

**Hemodynamic Optimization**

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**Hemodynamic Optimization**

Matching mean arterial pressure (MAP) by volume loading during the surgical procedure or in the immediate postoperative period is a key strategy for reducing postoperative complications. Dynamic volume Intake (DVI) monitoring can be used to target fluid resuscitation. Cardiooutput measured continuously can be used in conjunction with SaO2 and lactate to adjust intraoperative goals with fluid boluses.

**Graphical Trend Screen**

The graphical trend screen allows you to select, place, and track interventions over time while providing key parameter trending data. The percent change indicator provides additional insight into the patient's condition.

**Physio-relationship Screen**

The physio-relationship screen depicts the balance between oxygen delivery and consumption, allowing you to identify the root cause of the imbalance and use appropriate intervention.
**Visualized Physiology**

The EV-1000 clinical platform allows you to view patient hemodynamic information in an array of ways. 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 for improved decision making.

**Real-time Physiology Screen**

The real-time physiology screen visually depicts the dynamic changes occurring in your patient. By delivering parameters visually as well as numerically, the EV-1000 clinical platform allows you to more easily determine the root cause of a particular situation. Further assisting and guiding your clinical decisions.

**Hemodynamic Optimization**

Monitoring mean arterial blood volume (BV) by volume loading during the surgical procedure or in the immediate postoperative period is a key strategy for reducing postoperative complications.1,2 Dynamic volume targeting (DVT) research is on the way to make fluid therapy: cardiac output increased over time can be used in combination with SVV and hemoglobin to visualize and optimize DO2 with fluid (including red blood cells) and vasoactive agents.3,4

Three advanced hemodynamic parameters, when combined with a Perioperative Goal-Directed Therapy protocol, can help to visualize the patient’s state volume range. During surgery, as long as oxygen consumption is stable, ScvO2 can be used as a target for fluid therapy: heart rate increased over time can be used in combination with SVV and hemoglobin to optimize DO2 with fluid (including red blood cells) and vasoactive agents.

**Goal Positioning Screen**

The Goal-Positioning screen (GPS) plots two key hemodynamic parameters against each other on the same X/Y plane. The blue pulsating sphere represents the current position of the parameters while the descending lines display the historical trend. The green target box indicates the desired state of targets. This screen may be particularly useful when identifying and treating intraoperative complications, Perioperative Goal-Directed Therapy protocols.

**Continuous Physiology Screen**

Heart size reflects patient volumetric status

Oscillations can depict oscillations of resistance vessels

5 levels of lung water shown in lungs

**Intermittent Physiology Screen**

Heartbeat reflects current heart rate

Flow of blood cells represents cardiac output

Replicated patient position on Frank-Starling curve

**Heart size reflects patient volumetric status**

**Vasculature can depict vasoconstriction or vasodilatation**

**5 levels of lung water shown in lungs**

**Continuous Physiology Screen**

**Intermittent Physiology Screen**

**Goal Positioning Screen – High-Risk Surgery**

**Graphical Trend Screen – Select Intervention**

**Exclusive Cockpit Screen**

The cockpit screen combines large, easy-to-read numbers with specific, color-coded target ranges to deeply analyze patient status. You can choose parameters, values, and targets to meet your unique patient monitoring needs.

**Continuous Physio-relationship Screen – Hypovolemia**

**Graphical Trend Screen – Continuous Blood Pressure**

**Graphical Trend Screen – View Intervention Detail**

**Graphical Trend Screen – Select Intervention**

**Graphical Trend Screen – View Intervention Detail**

**Continuous Physio-relationship Screen – Hypovolemia**

**Graphical Trend Screen – Continuous Blood Pressure**

**Graphical Trend Screen – View Intervention Detail**

**Graphical Trend Screen – Select Intervention**

**Graphical Trend Screen – View Intervention Detail**

**Continuous Physio-relationship Screen – Hypovolemia**

**Graphical Trend Screen – Continuous Blood Pressure**

**Graphical Trend Screen – View Intervention Detail**

**Graphical Trend Screen – Select Intervention**

**Graphical Trend Screen – View Intervention Detail**
ClearSight Finger Cuff Setup

PreSep Oximetry Catheter Setup

FloTrac Sensor Setup

VolumeView Set Setup

Helping to advance the care of the acutely ill for 40 years, Edwards Lifesciences seeks to provide the valuable information you need, the moment you need it. Through continuing collaboration with you, ongoing education and our never-ending quest for advancement, our goal is to deliver clarity in every moment.

Visit www.Edwards.com/ECCS to learn more


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