EV1000 Clinical Platform

What you need. When you need it.
The EV1000 clinical platform from Edwards Lifesciences presents the physiologic status of the patient in an 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.

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.
Edwards Oximetry Central Venous Catheter VolumeView Set 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 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, SVV, SVR/SVRI) every 20 seconds, making it the practical and reliable solution for hemodynamic optimization in moderate to high-risk surgery.

**Edwards Oximetry Central Venous Catheter**
The Edwards oximetry central venous catheter continuously monitors central venous oxygen saturation (ScvO₂), which may be used in Early Goal-Directed Therapy (EGDT) protocols 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).
Heart size reflects patient volumetric status
Vasculature can depict vasoconstriction or vasodilation
5 levels of lung water shown in lungs

Clarity

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 to help you make better decisions.

Real-time Physiology Screen
The animated 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 cause of a particular situation, further assisting and guiding your clinical decisions.
Hemodynamic Optimization
Monitoring and optimizing Stroke Volume (SV) by fluid challenges during the surgical procedure is a strategy to help reduce postoperative complications. Stroke Volume Variation (SVV) measured can be used to tailor fluid therapy. Cardiac output measured continuously can be used (in combination with SaO2 and hemoglobin) to monitor and calculate DO2.

These advanced hemodynamic parameters, when combined with a Perioperative Goal-Directed Therapy (PGDT) protocol, are key to maintaining the patient in the optimal volume range.

Perioperative Goal-Directed Therapy Screens
The EV1000 clinical platform offers the next perspective on guiding volume administration to reduce variability and help you keep your patients in the optimal volume range, while supporting your Perioperative Goal-Directed Therapy (PGDT) compliance. The latest visual clinical support screens available for use with the FloTrac sensor and ClearSight finger cuff, enable you to maintain your patients in the optimal volume range and reduce volume administration variability.

Time-in-Target indicator facilitates Perioperative Goal-Directed Therapy (PGDT) compliance, helping the user to track and manage key parameters, and create and monitor customized protocols. The Time-in-Target indicator represents the accumulated percentage of time a parameter has been maintained within target range during an active tracking session.
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 intuitive 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.

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 the most appropriate intervention.
Connectivity

Connectivity within the EV1000 clinical platform enables you to optimize your clinical workflow. Edwards provides options for connecting the platform within the clinical environment that include IFMout through a serial connection and HL7 (Health Level 7) through an Ethernet port. HL7 is a standard for exchanging information between medical applications.

PGDT Analytics
This tool enables clinicians to access EV1000 clinical platform monitoring data in an offline PC application. The software creates monitoring dashboards for parameter, cohort and cross cohort analytics. It also provides Time-in-Target indicator from Perioperative Goal-Directed Therapy sessions.

Single Cohort – PGDT Analytics

For over 40 years, Edwards Lifesciences has been helping you make proactive clinical decisions to advance the care of surgical and critical care patients. Through continuing collaboration with you, ongoing education and our never-ending quest for advancement, Edwards develops solutions that provide the clarity to make proactive clinical decisions.

Visit Edwards.com/EV1000 to learn more

The EV1000 clinical platform NI and ClearSight finger cuff are indicated for patients over 18 years of age in which the balance between cardiac function, fluid status, and vascular resistance needs continuous assessment. The EV1000 clinical platform may be used for the monitoring of hemodynamic parameters in conjunction with a perioperative goal directed therapy protocol. In addition, the noninvasive ClearSight system is indicated for use in patients with co-morbidities for which hemodynamic optimization is desired and invasive measurements are difficult. The EV1000 clinical platform and the ClearSight finger cuffs noninvasively measures blood pressure and associated hemodynamic parameters.

The EV1000 clinical platform is indicated for use primarily for critical care patients in which the balance between cardiac function, fluid status and vascular resistance needs continuous or intermittent assessment. The EV1000 clinical platform may be used for the monitoring of hemodynamic parameters in conjunction with a perioperative goal directed therapy protocol. Analysis of the thermodilution curve in terms of mean transit time and the shape is used to determine intravascular and extravascular fluid volumes. When connected to an Edwards oximetry catheter, the monitor measures oximetry in adults and pediatrics. The EV1000 clinical platform may be used in all settings in which critical care is provided.

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References

Edwards Lifesciences devices placed on the European market meeting the essential requirements referred to in Article 3 of the Medical Device Directive 93/42/EEC bear the CE marking of conformity.

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