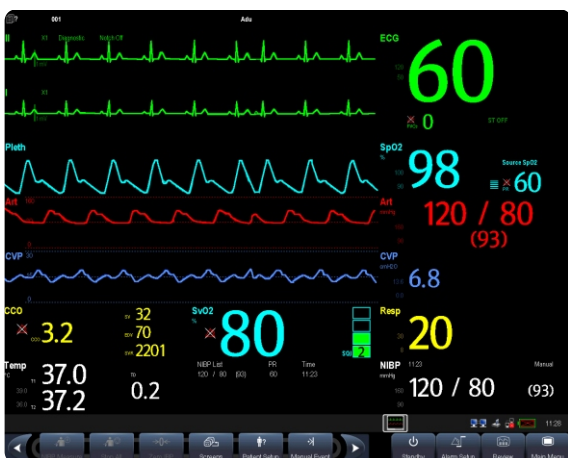


CCO/SvO₂ Link Module

Capture every aspect of hemodynamic status

Mindray CCO/SvO₂ Module is designed to acquire real-time information from Vigilance II – continuous cardiac output (CCO), continuous end diastolic volume (EDV), and venous oxygen saturation (SvO₂ and ScvO₂), etc – for display on BeneView patient monitor, and therefore supports clinician's decision at the patient's side.



Integrating hemodynamic information on the patient monitor

The CCO/SvO₂ Module is a lightweight, plug-and-play unit which is used on the BeneView main unit or the Satellite Module Rack. It connects BeneView with the Edwards Vigilance II monitor through an interface cable.

Vigilance II monitor has two primary cardiac output monitoring modes:

- Continuous Cardiac Output (CCO), and
- Intermittent (Bolus) Cardiac Output (ICO)

Hemodynamic parameters are acquired and integrated on the BeneView patient monitor's main screen. Alarm settings such as alarm levels and limits can be separately set on the BeneView.

Besides, the following measurements can also be displayed on the monitor :

- Continuous cardiac index (CCI) or cardiac index (CI)
- End diastolic volume index (EDVI)
- System vascular resistance (SVR)
- System vascular resistance index (SVRI)
- Stroke volume (SV)
- Stroke volume index (SVI)
- Right ventricular ejection fraction (RVEF)
- Blood temperature (BT)
- End systolic volume (ESV)
- End systolic volume index (ESVI)
- Central venous oxygen saturation (ScvO₂)
- Oxygen delivery (DO₂)
- Arterial oxygen saturation (SaO₂)
- Oxygen consumption (VO₂)
- Oxygen extraction index (O₂EI)

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Real-time CCO and SvO₂ monitoring

With CCO/SvO₂ module, BeneView provides clinicians with a range of hemodynamic parameters, many of which are not available on the traditional right heart thermo dilution technology. *

Parameters	Derived Information
SvO ₂ (Mixed Venous Oxygen Saturation)	Tissue oxygenation
SQI (Signal Quality Index)	Reliability of readings
EDV (Continuous End Diastolic Volume)	Preload
SVR (Systemic Vascular Resistance)	Afterload
CCO (Continuous Cardiac Output)	Contractility
SV (Stroke Volume)	Contractility
RVEF (RV Ejection Fraction)	Contractility

* Basic pulmonary catheters are limited to Intermittent Cardiac Output and PCWP, a pressure reflection of ventricular volumes.

CCO/SvO₂ Link Module is also capable of connecting Edwards Vigileo monitor, which is a minimally invasive monitoring platform that measures APCO (arterial pressure cardiac output), oximetry (ScvO₂, SvO₂), SVV, as well as derived continuous SVR when interfaced with the appropriate bedside monitors.

Advantage of CCO/SvO₂ monitoring as compared to the traditional C.O. monitoring

- Maximum amount of diagnostic information with same invasive procedure
- Continuous assessment of DO₂ / VO₂ balance with SvO₂ monitoring
- Continuous assessment of adequacy of CO by assessing DO₂ / VO₂ balance with SvO₂ monitoring
- Continuous assessment of components of stroke volume (preload, afterload, and contractility) (RVEDV, SVR, RVEF and SVI)
- Increased accuracy of cardiac output calculations, elimination of ventilator cycle and thermal noise effect
- Mitigation of:
 - User error in association with wedge procedure/ calculation through automated alternative preload parameter (RVEDV)
 - Inappropriate preload assessment secondary to changes in ventricular compliance affecting PAD or PAOP
 - Pulmonary artery rupture potential associated with wedge procedure by providing automated preload parameter (RVEDV)
 - Inappropriate therapy due to miscalculation of PAOP by using automated preload parameter (RVEDV)
 - Iatrogenic infection risk from bolus injections
 - Cardiac output error with CCO automation through elimination of bolus cardiac output user error

DISTRIBUTOR:



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