## Hemodynamic Normal Values



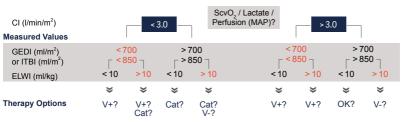
				us Oxygenation - Oxygenation Balance of the venous blood after passing through the organs)	ScvO <sub>2</sub> *	70-80 %
			O <sub>2</sub> Consumpti	on (Consumption of O <sub>2</sub> by organs)	VO <sub>2</sub> I	125-175 ml/min/m²
<u></u>			O <sub>2</sub> Delivery (D	elivery of O <sub>2</sub> via blood to organs)	DO <sub>2</sub> I	400-650 ml/min/m <sup>2</sup>
Delivery			Hemoglobin (Oxygen transporter in blood)		Hb <sup>™</sup>	8.7-11.2 mmol/l (Male) 7.5-9.9 mmol/l (Female)
آر آ			Arterial / capil	llary oxygen saturation (Oxygen load of arterial blood)	SaO <sub>2</sub> /SpO <sub>2</sub>	96-100 %
Oxygen	3		Flow Chronotropy	Cardiac Index (Trend, Cal, td, PC) Heart Rate/Pulse Rate	CI HR/PR	3.0-5.0 l/min/m <sup>2</sup> 60-100 1/min
	Blood Flow	Stroke Volume	Preload  Afterload	Stroke Volume Index (Output per heart beat) Global Enddiastolic Volume Index (Volume of blood in the heart) Intrathoracic Blood Volume Index (Volume of blood in heart & lungs) Stroke Volume Variation (Dynamic fluid responsiveness) Pulse Pressure Variation (Dynamic fluid responsiveness) Systemic Vascular Resistance Index (Resistance of vascular system)	SVI GEDI ITBI SVV''' PPV'''	40-60 ml/m² 680-800 ml/m² 850-1000 ml/m² <10 % <10 % 1700-2400 dyn*s*cm**m²
			Contractility	Mean Arterial Pressure Global Ejection Fraction (Ratio of stroke volume & preload) Left Ventricular Contractility (Increase of arterial pressure over time) Cardiac Function Index (Ratio of Cl and preload) Cardiac Power Index (Global cardiac performance)	MAP GEF dPmx CFI CPI	70-105 mmHg 25-35% Trend info - mmHg/s 4.5-6.5 1/min 0.5-0.7 W/m <sup>2</sup>
			Lung	Extravascular Lung Water Index (Lung edema) Pulmonary Vascular Permeability Index (Permeability of lung tissue)	ELWI PVPI	3.0-7.0 ml/kg 1.0-3.0
			Liver	Plasma Disappearance Rate ICG (Performance of the liver) Retention rate of ICG after 15 minutes (Performance of the liver)	PDR R15	18-25 %/min 0-10 %

Absolute values (non-indexed values) are only usable in trend screens and have no normal range. \*A high-normal / high ScvO<sub>2</sub> can be a sign of insufficient O<sub>2</sub> utilization \*\*14-18 g/dl (Male); 12-16 g/dl (Female) \*\*\*SVV and PPV are only applicable in fully ventilated patients with a tidal volume 2 8 ml/kg PBW (predicted body weight) and without cardiac arrhythmias

## Hemodynamic Decision Model



NOTE: PULSION Medical Systems is a medical device manufacturer and does not practice medicine. PULSION does not recommend these values for use on a specific patient. This decision model is not obligatory.



V+ = volume loading V- = volume withdrawal Cat = catecholamine / cardiovascular agents

Please reevaluate vour clinical decisions and the set target parameters.

## **Targeted Values**

> 700
> 25
> 5
≤ 10

- Volume Responsiveness? (Passive Leg Raising / Endexpiratory Occlusion Test / Volume Challenge / SVV / PPV?)
- . Contractility Problem? (GEF / CFI / Echo?)

This information is intended for an international audience outside the US and does not replace any individual therapeutic decision of the treating physician. Indications, contraindications, warnings and instructions for use are listed in the separate instructions for use, Products may be pending regulatory approvals to be marketed in your country.

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