

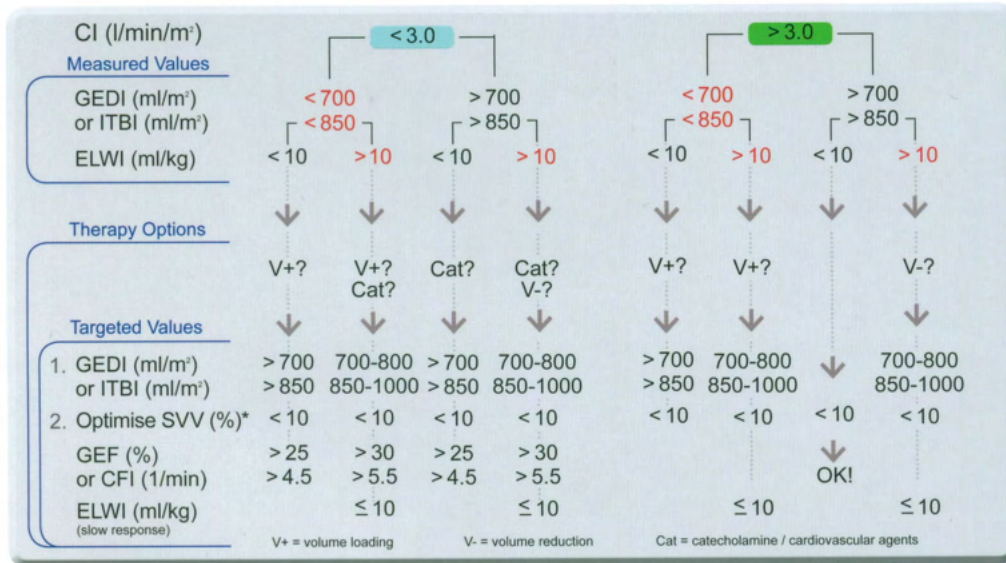
Haemodynamic Normal Values

Central Venous Oxygenation - Oxygenation Balance (Oxygen load of the venous blood after passing through the organs)		ScvO ₂ **	70-80 %	
O ₂ Consumption (Consumption of O ₂ by organs)		VO ₂ l	125-175 ml/min/m ²	
O ₂ Delivery (Delivery of O ₂ via blood to organs)		DO ₂ l	400-650 ml/min/m ²	
Haemoglobin (Oxygen transporter in blood)		Hb ^{mm}	8.7-11.2 mmol/l (Male) 7.5-9.9 mmol/l (Female)	
Arterial / capillary oxygen saturation (Oxygen load of arterial blood)		SaO ₂ / SpO ₂	96-100 %	
Oxygen Delivery	Flow	Cardiac Index	CI	3-5 l/min/m ²
		Pulse Contour Cardiac Index (Cardiac Index related to body surface)	PCCI	3-5 l/min/m ²
Blood Flow	Chronotropy	Heart Rate	HR	60-80 bpm
	Stroke Volume	Preload	Stroke Volume Index (Output per heart beat)	SVI
		Global Enddiastolic Volume Index (Volume of blood in the heart)	GEDI	680-800 ml/m ²
		Intrathoracic Blood Volume Index (Volume of blood in heart and lungs)	ITBI	850-1000 ml/m ²
		Stroke Volume Variation (Dynamic fluid responsiveness)	SVV	0-10 %
		Pulse Pressure Variation (Dynamic fluid responsiveness)	PPV	0-13 %
Afterload		Systemic Vascular Resistance Index (Resistance of vascular system)	SVRI	1700-2400 dyn ^{sec} cm ⁵ m ²
Contractility	Mean Arterial Pressure	MAP	70-90 mmHg	
	Global Ejection Fraction (Ratio of stroke volume and preload)	GEF	25-35%	
	Left Ventricular Contractility (Increase of arterial pressure over time)	dPmax	Trend information	
	Cardiac Function Index (Ratio of CI and preload)	CFI	4.5-6.5 1/min	
	Cardiac Power Index (Global cardiac performance)	CPI	0.5-0.7 W/m ²	
Lung	Extravascular Lung Water Index (Lung oedema)	ELWI	3-7 ml/kg	
	Pulmonary Vascular Permeability Index (Permeability of lung tissue)	PVPI	1.0-3.0	
Liver	Plasma Disappearance Rate ICG (Performance of the liver)	PDR	16-25 %/min	
	Retention rate of ICG after 15 minutes (Performance of the liver)	R15	0-10 %	

Absolute values (non-indexed values) are only usable in trend screens and have no normal range. * SVV/PPV are only applicable in fully ventilated patients without cardiac arrhythmias.
** A high-normal / high ScvO₂ can be a sign of insufficient O₂ utilisation *** 14-18 g/dl (Male); 12-16 g/dl (Female)

Haemodynamic Decision Model

This decision model is not obligatory. It cannot replace the individual therapeutic decisions of the treating physician.



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