



HEMODYNAMIC PATTERNS

Condition	SAP	CVP	PAP	PCWP	CO	C(a-v)O ₂	PVR	SVR
Hypovolemic shock	↓	↓	↓	↓	↓	↑	↑	↑
Cardiogenic shock	↓	↑	↑	↑	↓	↑	↑	↑
Septic shock	↓	↓	↓	↓	↑	↓	↓	↓
Cardiac Tamponade	↓	↑	↑	↑	↓	↑	↑	↑
RV Infarction	↓	↑	↑	↑	↓	↑	↑	↑
Pulmonary Embolism	↓	↑	↑	↑	↓	↑	↑	↑
Airways Obstruction	↔↑	↔↑	↑	↔	↔↑	↔	↑	↔

HEMODYNAMICS

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CO	4.25-6.12 L/min	HR*SV	Cardiac Output
CI	2.5-3.6 L/min/m ²	VO ₂ /Ca-vO ₂ (fick)	Cardiac Index
EF	55-78 %	SV/EDV	Ejection Fraction
HR	60-90 bpm	CO/SV	Heart Rate
SV	69-87 mL/beat	CO/HR	Stroke Volume
SI	41-60 mL/beat/m ²	CI/HR	Stroke Volume Index
BFVR	0.9-1.4 ratio	CI/BVI	Blood Flow:Volume Ratio
BV	3-5.1 L	PV/(1-Hct)	Blood Volume
PRESSURES			
MAP	70-105 mmHg	(SP+2DP)/3	Mean Arterial Pressure
MPAP	9-17 mmHg	(PSP+2PDP)/3	Mean Pulmonary Arterial Pressure
PP	20-70 mmHg	SP-DP	Pulse Pressure
RPP	6000-12000 mmHg*bpm	HR*SP	Rate Pressure Product
CPP	60-80 mmHg	DP-PCWP	Coronary Perfusion Pressure
COP	23-29 mmHg	(glob*1.4)+(alb*5.5)	Colloid-Oncotic Pressure
RESISTANCES			
SVR	770-1500 dyn*slcm ⁵	((MAP-CVP)/79.92)/CO	Systemic Vascular Resistance
SVRI	1970-2390 dyn*slcm ⁵ *m ²	((MAP-CVP)/79.92)/CI	Systemic Vascular Resistance Index
PVR	20-120 dyn*slcm ⁵	((MPAP-WP)/79.92)/CO	Pulmonary Vascular Resistance
PVRI	30-240 dyn*slcm ⁵ *m ²	((MPAP-WP)/79.92)/CI	Pulmonary Vascular Resistance Index
CARDIAC WORK			
LCWI	3.4-4.2 kg*m/m ²	CI*MAP*0.0144	Cardiac Work Index, Left
RCWI	540-660 g*m/m ²	CI*MPAP*0.0144	Cardiac Work Index, Right
LVSWI	50-62 g*m/m ²	SI*MAP*0.0144	Ventricular Stroke Work Index, Left
RVSWI	7.9-9.7 g*m/m ²	SI*MPAP*0.0144	Ventricular Stroke Work Index, Right
ELECTROCARDIOGRAPHY			
Q-T_c	0.34-0.42 s	(QT)/(sqrtRR)	Q-T interval correction
RR	0.42-1.2 s	RR interval	RR interval
abbrev		nl values	units
		equation	

CONVERSION

*Celsius = (°F - 32)/1.8 *Fahrenheit = (°C x 1.8) + 32
 French Units: 1 french unit = 1 mm x 3.14
 mmHg & cmH₂O: 1 mmHg = 1.36 cmH₂O

PULMONARY

RR	10-16 resp/min	Respiratory Rate
VT	400-600 mL	Wt*VT
Ve	4.0-8.0 L/min	VT*RR
Vo	80-300 mL	(VT*(PaCO ₂ -PECO ₂))/PaCO ₂
FVC	>4.0 L	Forced Vital Capacity
FEV₁	>3.0 L	FEV ₁ /FVC = >60%
Qs/Qt	0.0-7.0 %	Shunt, physiologic
		((CcapO ₂ -CaO ₂)/(CcapO ₂ -CvO ₂))*100
A-a GRADIENT		
PA-aO₂	5-25 mmHg	A-a Gradient
		((FIO ₂)*(PB-PH ₂ O))-(PaCO ₂ /R)-(PaO ₂)
PA-aO₂c	5-25 mmHg	A-a Gradient, age-corrected
		2.5+(0.25*age)
PAO₂	95-105 mmHg	Alveolar Oxygen Tension
		((FIO ₂)*(PB-PH ₂ O))-(PaCO ₂ /R)
PaO₂	80-100 mmHg	arterial Oxygen Tension
		Measured, [estimated=100-(0.33*age)]
PIO₂	100-150 mmHg	(FIO ₂)*(PB-PH ₂ O)
PB	0.760 mmHg	Barometric Pressure
		29.92*((1)-(6.87535*alt*10 ⁻⁶))+5.2561
FIO₂	19-21 %	Fraction of inspired O ₂
PH₂O	47 mmHg	Water vapor (partial press.)
R	0.7-1 ratio	Respiratory Quotient
OXYGEN CONTENT		
CaO₂	17-20 mL/dL	arterial Oxygen Content
		((Hb*1.36)*(SaO ₂))+((PaO ₂ *0.0031)
CcapO₂	21-21 mL/dL	capillary Oxygen Content
		((Hb*1.36)*(ScapO ₂))+((PaO ₂ *0.0031)
CvO₂	12-15 mL/dL	mixed venous O ₂ Content
		((Hb*1.36)*(SvO ₂))+((PvO ₂ *0.0031)
Ca-vO₂	4-5 mL/dL	Oxygen Content Difference, arterial-venous
		(CaO ₂)-(CvO ₂)
PaO₂	80-100 mmHg	arterial Oxygen Tension
SaO₂	96-99 %	arterial Oxygen Saturation
PvO₂	35-45 mmHg	mixed venous O ₂ Tension
SvO₂	60-80 %	mixed venous O ₂ Saturation
PaCO₂	35-45 mmHg	arterial CO ₂ Tension
PACO₂	35-45 mmHg	Alveolar CO ₂ Tension
PvCO₂	40-50 mmHg	mbxed venous CO ₂ Tension
PECO₂	25-35 mmHg	Expired CO ₂ Tension
OXYGEN TRANSPORT		
O₂ ext	20-30 %	Oxygen Extraction Rate
		CO*CaO ₂ *10
DO₂	750-1200 mL/min	Oxygen Delivery
		CI*CaO ₂ *10
DO₂ I	550-650 mL/min/m ²	Oxygen Delivery Index
		CO*Ca-vO ₂
VO₂	200-280 mL/min	Oxygen Consumption
		CI*Ca-vO ₂
VO₂ I	115-165 mL/min/m ²	Oxygen Consumption Index
		Wt*VCO ₂
VCO₂	120-320 mL/min	Carbon dioxide Production

Math Formulas In Medical Field

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