

# arithMedics"

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# «Medical Formulas & Equations»

#### HEMODYNAMIC PATTERNS

Condition	SAP	CVP	PAP	PCWP	CO	C(a-v)O2	PVR	SVR
Hypovolemic shock	-	-	-	-	-	•	*	*
Cardiogenic shock	-	•	*	•	-	•	•	•
Septic shock	-	-	-	-	*	-	-	-
Cardiac Tamponade	-	1	*	1	-	1	-	1
RV Infarction	-	•	-	-		•	-	
Pulmonary Embolism	-	•	*		-	*	*	•
Airways Obstruction	<b>→ +</b>		*	-	-	-	•	-

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#### HEMODYNAMICS

	YNAMICS		
CO		L/min	HR*SV
	Cardiac Out;		VO2/Ca-vO2 (fick)
CI	2.5-3.6	L/min/m²	CO/BSA
	Cardiac Ind	leux	
EF	55-78	%	SVEDV
	Ejection Fra	ection	
HR	60-90	bpm	COISV
-	Heart Rate		
sv	69-87	mL/beat	CO/HR
-	Stroke Volu		CONTRA
SI			CIRIO
34	41-60	mL/beat/m <sup>2</sup>	CI/HR
	Stroke Volu		
BFVR	0.9-1.4	ratio	CI/BVI
		Volume Ratio	
BV	3-5.1	L	PV/(1-Hct)
	Blood Votus	me	
PERESS	URES		
MAP	70-105	mmHg	(SP+2DP)/3
		ial Pressure	
MPAP	9-17	mmHg	(PSP+2PDP)/3
		onary Arterial P	
PP	20-70	mmHg	SP-DP
	Pulse Presi		SF-UF
RPP		mmHg*bpm	HR*SP
		ure Product	
CPP	60-80	mmHg	DP-PCWP
	Coronary P	erfusion Pressu	re
COP	23-29	mmHg	(glob*1.4)+(alb*5.5)
	Colloid-One	cotic Pressure	
CHEST SERVICE	ANCES	AND DESCRIPTION OF THE PARTY OF	
SVR		dyn*s/cm5	(IMAP-CVP)*79.92VCO
		ascular Resista	
SVRI			((MAP-CVP)*79.92)/CI
SALCI		ascular Resista	
PVR			
PVK	20-120		((MPAP-WP)*79.92)/CO
		Vascular Resist	
PVRI	30-240		((MPAP-WP)*79.92)/CI
		Vascular Resist	tance Index
CARDU	AC WORK		
LCWI	3.4-4.2	kg*m/m²	CI*MAP*0.0144
		ork Index, Left	
RCWI		g*m/m²	CI*MPAP*0.0144
		erk Index, Right	
LVSWI		g*m/m²	SI*MAP*0.0144
LASALI			
		Stroke Work Inc	
RVSWI	7.9-9.7	g*m/m²	SI*MPAP*0.0144
		Stroke Work Inc	dex, Right
LECTR	COCARDIO	RAPHY	
	0.34-0.42		(QT)/(sqrtRR)
	O-I interva		
Q-T_c	Q-T interval		RR interval
Q-T_c RR	0.42-1.2		RR interval

#### CONVERSION

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

#### PULMONARY

10-16

VT	400-600		Wt*VT
	Tidal Vo		
VE	4.0-8.0	Limin	VT*RR
Vo	80-300	mL	(VT*(PaCO2-PECO2))/PaCO2
		pace (physi	
FVC	>4.0	L	Forced Vital Capacity
FEV1	>3.0	L	FEV1/FVC = >60%
		Espiratory v	
Qs/Qt	0.0-7.0	76	Shunt, physiologic
	((CcapC	12-CaO2)/(C	CapO2-CvO2))*(100)
A-a GRA	NOTES TO		Commence (C. C. C.)
PA-eO2	5-25	mmHg	A-a Gradient
	(ICFRO2)	*(PB-PH)O	))-(PaCO2/R))-(PaO2)
PA-aO2 c		mmHg	2.5+(0.25*age)
		dient, age-c	
PAO2	95-105		Alveolar Oxygen Tension
			)-(PaCO2/R)
0-0-			
PaO2	80-100		arterial Oxygen Tension ted=100-(0.33*age)i
PIO <sub>2</sub>		mmHg	(FIO <sub>2</sub> )*(PB-PH <sub>2</sub> O)
		Oxygen Te	
PB	0-760	mmHg	Barometric Pressure
	29.92*((	(1)-(6.8753	5*alt*10^-6))^5.2561)
FIO2	19-21	96	Fraction of inspired O2
PH <sub>2</sub> O	47	mmHg	Water vapor (partial press.)
	0.7-1	ratio	Respiratory Quotient
R			
			Respiratory Quotiens
(O):37(F)(E)	I GOINT	ENT	
	17-20	mL/dL	arterial Oxygen Content
CaO <sub>2</sub>	17-20 (0Hb*1.3	mL/dL 36)*(SaO2))	arterial Oxygen Content (+(PaO2*0.0031)
(O):37(F)(E)	17-20 ((Hb*1.3 21-21	mL/dL 36)*(SaO2)) mL/dL	arterial Oxygen Content +(PaOz=0.0031) capillary Oxygen Content
CaO <sub>2</sub> CcapO <sub>2</sub>	17-20 ((Hb*1.3 21-21 ((Hb*1.3	mL/dL 36)*(SaO2)) mL/dL 36)*(ScapO	arterial Oxygen Content (+(PaO2*0.0031) capillary Oxygen Content (2))+(PaO2*0.0031)
CaO <sub>2</sub>	17-20 (045*1.3 21-21 (045*1.3 12-15	mL/dL 36)*(SaO2)) mL/dL 36)*(ScapO mL/dL	arterial Oxygen Content +(PaOz*0.0031) capillary Oxygen Content (2))+(PaOz*0.0031) mixed venous Oz Content
CaO2 CcapO2 CvO2	17-20 (045*1.3 21-21 (045*1.3 12-15	mL/dL 36)*(SaO2)) mL/dL 36)*(ScapO mL/dL	arterial Oxygen Content (+(PaO2*0.0031) capillary Oxygen Content (2))+(PaO2*0.0031)
CaO <sub>2</sub> CcapO <sub>2</sub>	17-20 (04b*1.3 21-21 (04b*1.3 12-15 (04b*1.3 4-5	mL/dL 36)*(SeOz)) mL/dL 36)*(ScapO mL/dL 36)*(SvOz)) mL/dL	arterial Oxygen Content +(PaOz*0.0031) capillary Oxygen Content (PaOz*0.0031) mixed venous Oz Content +(PvOz*0.0031) (CaOz)-(CvOz)
CaO2 CcapO2 CvO2	17-20 (04b*1.3 21-21 (04b*1.3 12-15 (04b*1.3 4-5	mL/dL 36)*(SeOz)) mL/dL 36)*(ScapO mL/dL 36)*(SvOz)) mL/dL	arterial Oxygen Content (+(PaO2*0.0031) capillary Oxygen Content (2))+(PaO2*0.0031) mixed venous O2 Content (+(PvO2*0.0031)
CaO2 CcapO2 CvO2	17-20 (04b*1.3 21-21 (04b*1.3 12-15 (04b*1.3 4-5	mL/dL 36)*(SeOz)) mL/dL 36)*(ScapO mL/dL 36)*(SvOz)) mL/dL	arterial Oxygen Content +(PaOz*0.0031) capillary Oxygen Content (PaOz*0.0031) mixed venous Oz Content +(PvOz*0.0031) (CaOz)-(CvOz)
CaO2 CcapO2 CvO2 Ca-vO2 PaO2	17-20 (pHb*1.3 21-21 (pHb*1.3 12-15 (pHb*1.3 4 - 5 Oxygen 80-100	mL/dL mL/dL 36)*(ScapO mL/dL 36)*(ScapO mL/dL Content Di mmHg	arterial Oxygen Content +(PaO2*0.0031) capillary Oxygen Content 2)+(PaO2*0.0031) mixed venous O2 Content +(PvO2*0.0031) (CaO2)-(CvO2) flerence, arterial-venous arterial Oxygen Tension
CaO2 CcapO2 CvO2 Ca-vO2 PaO2 SaO2	17-20 ((hb*1.3 21-21 ((hb*1.3 12-15 ((hb*1.3 4 - 5 Oxygen 80-100 96-99	mL/dL mL/dL 36)*(SaO2)) mL/dL 36)*(SvO2)) mL/dL 36)*(SvO2)) mL/dL Content Di mmHg %	arterial Oxygen Content (PaO2*0.0031) capillary Oxygen Content (2))+(PaO2*0.0031) mixed venous O2 Content (CaO2)-(CvO2) fference, arterial-venous arterial Oxygen Tension arterial Oxygen Saturation
CaO2 CcapO2 CvO2 Ca-vO2 PaO2 SaO2 PyO2	17-20 (0Hb*1.3 21-21 ((Hb*1.3 12-15 ((Hb*1.3 4 - 5 Oxygen 80-100 96-99 35-45	mL/dL mL/dL 36)*(ScapO mL/dL 36)*(ScapO mL/dL 36)*(SvO2)) mL/dL Content Di mmHg %	arterial Oxygen Content (+(PaO2*0.0031) capillary Oxygen Content (2))+(PaO2*0.0031) mixed venous O2 Content (+(PvO2*0.0031) (CaO2)-(CvO2) ference, arterial-venous arterial Oxygen Tension arterial Oxygen Saturation mixed venous O2 Tension
CaO2 CcapO2 CvO2 Ca-vO2 PaO2 SaO2 PvO2 SvO2	17-20 (04b+1.3 21-21 (04b+1.3 12-15 (04b+1.3 4-5 Oxygen 80-100 96-99 35-45 60-80	mL/dL mL/dL 36)+(SaO2)) mL/dL 36)+(SvO2)) mL/dL Content Di mmHg % mmHg	arterial Oxygen Content (PaO2*0.0031) capillary Oxygen Content (2))+(PaO2*0.0031) mixed venous O2 Content (CaO2)-(CVO2) ference, arterial-venous arterial Oxygen Tension arterial Oxygen Saturation mixed venous O2 Tension mixed venous O2 Saturation
CaO2 CcapO2 CvO2 Ca-vO2 PaO2 PaO2 PvO2 SvO2 PaCO2	17-20 (0Hb*1.3 21-21 ((Hb*1.3 12-15 ((Hb*1.3 4-5 Oxygen 80-100 96-99 35-45 60-80 35-45	mL/dL mL/dL 36)*(ScapO mL/dL 36)*(SvOz)) mL/dL 36)*(SvOz)) mL/dL Content Di mmHg % mmHg	arterial Oxygen Content (PaO2*0.0031) capillary Oxygen Content (2))+(PaO2*0.0031) mixed venous O2 Content (CaO2)-(CvO2) flerence, arterial-venous arterial Oxygen Tension arterial Oxygen Saturation mixed venous O2 Tension mixed venous O2 Saturation arterial CO2 Tension
CaO2 CcapO2 CvO2 Ca-vO2 PaO2 SaO2 PvO2 SvO2 PaCO2 PaCO2	17-20 ((Hb*1.3 21-21 21-21 ((Hb*1.3 12-15 ((Hb*1.3 4 - 5 Oxygen 80-100 96-99 35-45 60-80 35-45 35-45	mL/dL 66)*(SaO2)) mL/dL 36)*(ScapO mL/dL 36)*(SvO2)) mL/dL Content Di mmHg mmHg mmHg	arterial Oxygen Content (PaO2*0.0031) capillary Oxygen Content (2)+(PaO2*0.0031) mixed venous O2 Content (CaO2)-(CvO2) ference, arterial-venous arterial Oxygen Tension arterial Oxygen Saturation mixed venous O2 Tension mixed venous O2 Saturation arterial CO2 Tension Alveolar CO2 Tension
CaO2 CcapO2 CvO2 Ca-vO2 PaO2 SaO2 PyO2 PaCO2 PACO2 PACO2 PyCO2	17-20 (0Hb+1.3 21-21 ((Hb+1.3 12-15 ((Hb+1.3 4 - 5 Oxygen 50-100 96-99 35-45 60-80 35-45 35-45 40-50	mL/dL mL/dL 36)+(SaO2)) mL/dL 36)+(SvO2)) mL/dL Content Di mmHg % mmHg mmHg mmHg mmHg	arterial Oxygen Content (PaO2*0.0031) capillary Oxygen Content (2))+(PaO2*0.0031) mixed venous O2 Content (PvO2*0.0031) (CaO2)-(CvO2) flerence, arterial-venous arterial Oxygen Tension arterial Oxygen Saturation mixed venous O2 Tension arterial CO2 Tension arterial CO2 Tension arterial CO2 Tension mixed venous CO2 Tension
CaO2 CcapO2 CvO2 Ca-vO2 PaO2 PaO2 PvO2 SvO2 PaCO2 PaCO2 PACO2 PvCO2 PvCO2 PvCO2 PvCO2	17-20 (0Hb*1.3 21-21 ((Hb*1.3 12-15 (0Hb*1.3 4-5 Oxygen 80-100 96-99 35-45 60-80 35-45 40-50 25-35	mL/dL mL/dL 36)*(Scap0 mL/dL 36)*(Sv02)) mL/dL 36)*(Sv02)) mL/dL Content Di mmHg % mmHg mmHg mmHg mmHg	arterial Oxygen Content (PaO2*0.0031) capillary Oxygen Content (2))+(PaO2*0.0031) mixed venous O2 Content (CaO2)-(CvO2) flerence, arterial-venous arterial Oxygen Tension arterial Oxygen Saturation mixed venous O2 Tension mixed venous O2 Saturation arterial CO2 Tension
CaO2 CcapO2 CvO2 Ca-vO2 PaO2 SaO2 PyO2 PaCO2 PACO2 PACO2 PyCO2	17-20 (0Hb*1.3 21-21 ((Hb*1.3 12-15 (0Hb*1.3 4-5 Oxygen 80-100 96-99 35-45 60-80 35-45 40-50 25-35	mL/dL mL/dL 36)*(Scap0 mL/dL 36)*(Sv02)) mL/dL 36)*(Sv02)) mL/dL Content Di mmHg % mmHg mmHg mmHg mmHg	arterial Oxygen Content (PaO2*0.0031) capillary Oxygen Content (2))+(PaO2*0.0031) mixed venous O2 Content (PvO2*0.0031) (CaO2)-(CvO2) flerence, arterial-venous arterial Oxygen Tension arterial Oxygen Saturation mixed venous O2 Tension arterial CO2 Tension arterial CO2 Tension arterial CO2 Tension mixed venous CO2 Tension
CaO2 CcapO2 CvO2 Ca-vO2 PaO2 SaO2 PvO2 SvO2 PaCO2 PaCO2 PACO2 PACO2 PACO2	17-20 ((Hb+1.3 21-21 12-15 ((Hb+1.3 12-15 ((Hb+1.3 4-5 Oxygen 80-100 96-99 35-45 60-80 35-45 40-50 25-35	mL/dL mL/dL 36)+(SacpO mL/dL 36)+(SvOz)) mL/dL Content Di mmHg % mmHg mmHg mmHg mmHg mmHg mmHg	arterial Oxygen Content (PaO2*0.0031) capillary Oxygen Content (PaO2*0.0031) mixed venous O2 Content (Po2*0.0031) (CaO2)-(CvO2) ference, arterial-venous arterial Oxygen Tension arterial Oxygen Saturation mixed venous O2 Tension mixed venous O2 Saturation arterial CO2 Tension arterial CO2 Tension Expired CO2 Tension
CaO2 CcapO2 CvO2 Ca-vO2 PaO2 PaO2 PvO2 SvO2 PaCO2 PaCO2 PACO2 PvCO2 PvCO2 PvCO2 PvCO2	17-20 (0Hb+1.3 21-21 ((Hb+1.3 12-15 ((Hb+1.3 4-5 Oxygen 50-100 96-99 35-45 60-80 35-45 35-45 40-50 25-35	mL/dL mL/dL 36)*(SaO2)) mL/dL 36)*(SvO2)) mL/dL Content Di mmHg % mmHg mmHg mmHg mmHg mmHg	arterial Oxygen Content (PaO2*0.0031) capillary Oxygen Content (2))+(PaO2*0.0031) mixed venous O2 Content (PvO2*0.0031) (CaO2)-(CvO2) ference, arterial-venous arterial Oxygen Tension arterial Oxygen Saturation mixed venous O2 Tension mixed venous O2 Saturation arterial CO2 Tension arterial CO2 Tension Expired CO2 Tension Expired CO2 Tension Expired CO2 Tension
CaO2 CcapO2 CvO2 Ca-vO2 PaO2 SaO2 PvO2 SvO2 PaCO2	17-20 ((Hb+1.3 21-21 ((Hb+1.3 12-15 ((Hb+1.3 4-5 Oxygen 35-45 60-80 35-45 40-50 25-35	mL/dL s6)*(SaOz)) mL/dL s6)*(ScapO mL/dL s6)*(SvOz)) mL/dL Content Di mmHg mmHg mmHg mmHg mmHg mmHg	arterial Oxygen Content  (PaO2*0.0031) capillary Oxygen Content (PaO2*0.0031) mixed venous O2 Content (PVO2*0.0031) (CaO2)-(CvO2) flerence, arterial-venous arterial Oxygen Tension arterial Oxygen Saturation mixed venous O2 Tension mixed venous O2 Tension mixed venous C2 Tension arterial CO2 Tension mixed venous CO2 Tension Expired CO2 Tension Expired CO2 Tension
CaO2 CcapO2 CvO2 Ca-vO2 PaO2 SaO2 PvO2 SvO2 PaCO2 PaCO2 PACO2 PACO2 PACO2	17-20 (04b+1.3 21-21 (04b+1.3 12-15 (04b+1.3 4-5 Oxygen 80-100 96-99 35-45 60-80 35-45 40-50 25-35	mL/dL mL/dL 36)+(SaO2)) mL/dL 66)+(SeO2)) mL/dL 66)+(SeO2)) mL/dL Content Di mmHg % mmHg mmHg mmHg mmHg mmHg mmHg mm	arterial Oxygen Content  (PaO2*0.0031) capillary Oxygen Content (PaO2*0.0031) mixed venous O2 Content (PvO2*0.0031) (CaO2)-(CvO2) flerence, arterial-venous arterial Oxygen Tension arterial Oxygen Saturation mixed venous O2 Tension mixed venous O2 Tension mixed venous C2 Tension arterial CO2 Tension mixed venous CO2 Tension Expired CO2 Tension Expired CO2 Tension
CaO2 CcapO2 CvO2 Ca-vO2 PaO2 SaO2 PvO2 SvO2 PaCO2	17-20 ((Hb*1.3 21-21 ((Hb*1.3 12-15 ((Hb*1.3 4 - 5 Oxygen 35-45 60-80 35-45 40-50 25-35 40-50 25-35 0xygen 750-120 Oxygen 750-120	mL/dL mL/dL s6)*(SaO2)) mL/dL s6)*(Scap0 mL/dL Content Di mmHg % mmHg mmHg mmHg mmHg mmHg mmHg mm	arterial Oxygen Content  (PaO2*0.0031) capillary Oxygen Content (PaO2*0.0031) mixed venous O2 Content (PvO2*0.0031) (CaO2)-(CvO2) flerence, arterial-venous arterial Oxygen Tension arterial Oxygen Saturation mixed venous O2 Tension mixed venous O2 Tension mixed venous CO2 Tension Expired CO2 Tension Ca-vO2/CaO2  Rate  CO*CaO2*10
CaO2 CcapO2 CvO2 Ca-vO2 PaO2 SaO2 PvO2 SvO2 PaCO2	17-20 ((Hb+1.3 21-21 ((Hb+1.3 12-15 (((Hb+1.3 4-5 Oxygen 80-100 96-99 35-45 60-80 35-45 40-50 25-35 Uxygen 750-120 Oxygen 750-120 Oxygen 750-120	mL/dL mL/dL 36)+(SeapO mL/dL 36)+(SeapO mL/dL 36)+(SeapO mL/dL Content Di mmHg mmHg mmHg mmHg mmHg mmHg mmHg mmH	arterial Oxygen Content (PaO2*0.0031) capillary Oxygen Content (PAO2*0.0031) mixed venous O2 Content (PVO2*0.0031) (CaO2)-(CvO2) flerence, arterial-venous arterial Oxygen Tension arterial Oxygen Saturation mixed venous O2 Tension mixed venous O2 Saturation arterial CO2 Tension arterial CO2 Tension Expired CO2 Tension Mixed venous CO2 Tension Expired CO2 Tension Expired CO2 Tension  Ca-vO2/CaO2  Rate  CO*CaO2*10
CaO2 CcapO2 CvO2 Ca-vO2 PaO2 SaO2 PyO2 PaCO2 PACO2 PACO2 PACO2 PACO2 PCO2 PCO2 DO2 I	17-20 (0Hb+1.3 21-21 ((Hb+1.3 12-15 ((Hb+1.3 4 - 5 Oxygen 50-100 96-99 35-45 60-80 35-45 35-45 40-50 25-35 120-30 Oxygen 750-120 Oxygen 550-650 Oxygen 550-650 Oxygen	mL/dL mL/dL 36)*(SaO2)) mL/dL 36)*(ScospO mL/dL 36)*(SvO2)) mL/dL Content Di mmHg % mmHg mmHg mmHg mmHg mmHg mmHg mm	arterial Oxygen Content (PaO2*0.0031) capillary Oxygen Content (2))+(PaO2*0.0031) mixed venous O2 Content (PvO2*0.0031) (CaO2)-(CvO2) flerence, arterial-venous arterial Oxygen Tension arterial Oxygen Saturation mixed venous O2 Tension mixed venous O2 Tension arterial CO2 Tension arterial CO2 Tension Expired CO2 Tension
CaO2 CcapO2 CvO2 Ca-vO2 PaO2 SaO2 PvO2 SvO2 PaCO2	17-20 ((Hb+1.3 21-21 ((Hb+1.3 12-15 ((Hb+1.3 4-5 Oxygen 35-45 60-80 35-45 40-50 25-35 H17-73 20-30 Oxygen 750-120 Oxygen 750-120 Oxygen 750-120 Oxygen 750-120 Oxygen 750-120	mL/dL mL/dL 36)+(ScapO mL/dL 36)+(ScapO mL/dL 36)+(SvOz)) mL/dL Content Di mmHg mmHg mmHg mmHg mmHg mmHg mmHg mmH	arterial Oxygen Content  I+(PaO2*0.0031) capillary Oxygen Content (P+QO2*0.0031) mixed venous O2 Content I+(PvO2*0.0031) (CaO2)-(CvO2) ference, arterial-venous arterial Oxygen Tension arterial Oxygen Saturation mixed venous O2 Tension mixed venous O2 Saturation arterial CO2 Tension arterial CO2 Tension Expired CO2 Tension Mixed venous CO2 Tension Expired CO2 Tension  Ca-vO2/CaO2  Rate  CO*CaO2*10  /m² CI*CaO2*10  dex  CO*Ca-vO2
CaO2 CcapO2 CvO2 Ca-vO2 PaO2 SaO2 PyO2 SaO2 PyO2 PaCO2 PACO2 PACO2 POCO2 DO2 DO2 I VO2	17-20 (0Hb+1.3 21-21 (0Hb+1.3 12-15 (0Hb+1.3 12-15 (0Hb+1.3 4-5 Oxygen 35-45 60-80 35-45 40-50 25-35 11-7-1 20-30 Oxygen 750-120 Oxygen 50-80 Oxygen 200-280 Oxygen 200-280 Oxygen 200-280 Oxygen 200-280 Oxygen	mL/dL mL/dL 36)+(Scap0 mL/dL 36)+(Scap0 mL/dL 36)+(Sv02)) mL/dL Content Di mmHg % mmHg mmHg mmHg mmHg mmHg mmHg mm	arterial Oxygen Content (+(PaO2*0.0031) capillary Oxygen Content (2))+(PaO2*0.0031) mixed venous O2 Content (+(PvO2*0.0031) (CaO2)-(CvO2) ference, arterial-venous arterial Oxygen Tension arterial Oxygen Saturation mixed venous O2 Tension mixed venous O2 Saturation arterial CO2 Tension Alveolar CO2 Tension mixed venous CO2 Tension Expired CO2 Tension  Ca-vO2/CaO2  Rate  CO*CaO2*10  (ms² CI*CaO2*10  dex
CaO2 CcapO2 CvO2 Ca-vO2 PaO2 SaO2 PyO2 PaCO2 PACO2 PACO2 PACO2 PACO2 PCO2 PCO2 DO2 I	17-20 ((Hb+1.3 21-21 ((Hb+1.3 12-15 ((Hb+1.3 12-15 ((Hb-1.3 4-5 Oxygen 35-45 60-80 35-45 40-50 25-35 40-50 25-35 11-23 20-30 Oxygen 750-120 Oxygen 550-650 Oxygen 550-650 Oxygen 100-280 Oxygen 115-165	mL/dL mL/dL s6)+(Scapo mL/dL s6)+(Scapo mL/dL s6)+(SvOz)) mL/dL Content Di mmHg mmHg mmHg mmHg mmHg mmHg mmHg mmH	arterial Oxygen Content  I+(PaO2*0.0031) capillary Oxygen Content (2)+(PaO2*0.0031) mixed venous O2 Content  I+(PvO2*0.0031) (CaO2)-(CvO2) flerence, arterial-venous arterial Oxygen Tension arterial Oxygen Saturation mixed venous O2 Tension mixed venous O2 Tension mixed venous C02 Tension mixed venous C02 Tension Expired C02 Tension  Ca-vO2/CaO2  Rate  C0*CaO2*10  Im2 CI*CaO2*10  con CO*Ca-vO2  CO*Ca-vO2  On CI*Ca-vO2
CaO2 CayO2 CayO2 CayO2 PaO2 SaO2 PyO2 SyO2 PaCO2	17-20 ((Hb+1.3 21-21 ((Hb+1.3 12-15 ((Hb+1.3 12-15 ((Hb-1.3 4-5 Oxygen 35-45 60-80 35-45 40-50 25-35 40-50 25-35 11-23 20-30 Oxygen 750-120 Oxygen 550-650 Oxygen 550-650 Oxygen 100-280 Oxygen 115-165	mL/dL mL/dL 36)+(Scap0 mL/dL 36)+(Scap0 mL/dL 36)+(Sv02)) mL/dL Content Di mmHg % mmHg mmHg mmHg mmHg mmHg mmHg mm	arterial Oxygen Content (+(PaO2*0.0031) capillary Oxygen Content (2))+(PaO2*0.0031) mixed venous O2 Content (+(PvO2*0.0031) (CaO2)-(CvO2) ference, arterial-venous arterial Oxygen Tension arterial Oxygen Saturation mixed venous O2 Tension mixed venous O2 Saturation arterial CO2 Tension arterial CO2 Tension arterial CO2 Tension Expined CO2 Tension  Ca-vO2/CaO2  Rate  CO*CaO2*10  (ms² Ci*CaO2*10 dex CO*Ca-vO2 on Index
CaO2 CcapO2 CvO2 Ca-vO2 PaO2 SaO2 PyO2 SaO2 PyO2 PaCO2 PACO2 PACO2 POCO2 DO2 DO2 I VO2	17-20 ((Hb+1.3 21-21 ((Hb+1.3 12-15 ((Hb+1.3 12-15 ((Hb-1.3 4-5 Oxygen 35-45 60-80 35-45 40-50 25-35 40-50 25-35 11-23 20-30 Oxygen 750-120 Oxygen 550-650 Oxygen 550-650 Oxygen 100-280 Oxygen 115-165	mL/dL mL/dL s6)*(Scap0 mL/dL s6)*(Scap0 mL/dL s6)*(Sv02)) mL/dL Content Di mmHg mmHg mmHg mmHg mmHg mmHg mmHg mmH	arterial Oxygen Content (PaO2*0.0031) capillary Oxygen Content (P)+(PaO2*0.0031) mixed venous O2 Content (Po2*0.0031) (CaO2)-(CvO2) flerence, arterial-venous arterial Oxygen Tension arterial Oxygen Saturation mixed venous O2 Tension mixed venous O2 Tension arterial CO2 Tension arterial CO2 Tension Expined CO2 Tension Mixed venous CO2 Tension CO2-CaO2*10  (m2 Cl*CaO2*10 dex co-Ca-vO2 con Index

resp/min Respiratory Rate

# **Math Formulas In Medical Field**

# **A.Yavuz Oruc**

#### Math Formulas In Medical Field:

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formula Relationship between discriminate and nature of roots Situational problems based on quadratic equations related to day to day activities to be incorporated 4 Arithmetic Progressions Motivation for studying Arithmetic Progression Derivation of the nth term and sum of the first n terms of A P their application in solving daily life problems Unit III Coordinate Geometry 1 Lines In two dimensions Review Concepts of coordinate geometry graphs of linear equations Distance formula Section formula internal division Area of a triangle Unit IV Geometry 1 Triangles Definition examples counter examples of similar triangles 1 Prove If a line is drawn parallel to one side of a triangle to intersect the other two sides in distinct points the other two sides are divided in the same ratio 2 Motivate If a line divides two sides of a triangle in the same ratio the line in parallel to the third side 3 Motivate If in two triangles the corresponding angles are equal their corresponding sides proportional and the triangles are similar 4 Motivate If the corresponding sides of two triangles are proportional their corresponding angles are equal and two triangles are similar 5 Motivate If one angle of a triangle is equal to one angle of another triangle and the sides including these angles are proportional the two triangles are similar 6 Motivate If a perpendicular is drawn from the vertex of the right angle of a right triangle to the hypotenuse the triangles on each side of the perpendicular are similar to the whole triangle and to each other 7 Prove The ratio of the areas of two similar triangles is equal to the ratio of the squares of their corresponding sides 8 Prove In a right triangle the square on the hypotenuse is equal to the sum of the squares on the other two sides 9 Prove In a triangle if the square on one side is equal to sum of the squares on the other two sides the angles opposite to the first side is a right angle 2 Circles Tangent to a circle at point of contact 1 Prove The tangent at any point of a circle is perpendicular to the radius through the point of contact 2 Prove The lengths of tangents drawn from an external point to a circle are equal 3 Constructions 1 Division of a line segment in a given ratio internally 2 Tangents to a circle from a point outside it 3 Construction of a triangle similar to a given triangle Unit V Trigonometry 1 Introduction of Trigonometry Trigonometric ratios of an acute angel of a right angled triangle Proof of their existence well defined motivate the ratios whichever are defined at 0 and 90 Values with proofs of the trigonometric ratios of 30 45 and 60 Relationship between the ratios 2 Trigonometric Identities Proof and applications of the identity sin2 A cos2 A 1 Only simple identities to be given Trigonometric ratios of complementary angles 3 Heights and Distances Angle of elevation Angle of Depression Simple problems on heights and distances Problems should not involve more than two right triangles Angles of elevation depression should be only 30 45 60 Unit VI Mensuration 1 Areas Related to Circles Motivate the area of a circle area of sectors and segments of a circle Problems based on area and perimeter circumference of the above said plane figures In calculating area of segment of a circle problems should be restricted to central angle of 60 90 and 120 only Plane figures involving triangles simple quadrilaterals and circle should be taken 2 Surface Areas and Volumes 1 Surface areas and volumes of combination of any two of the following cubes cuboids spheres hemispheres and right circular cylinders cones Frustum of a cone 2 Problems involving converting one type of metallic solid into another and other mixed problems

Problems with combination of not more than two different solids be taken Unit VII Statistics and Probability 1 Statistics Mean median and mode of grouped data bimodal situation to be avoided cumulative frequency graph 2 Probability Classical definition of probability Simple problems on single events not Latest Trends in Engineering and Technology Sajjan Singh, Sarabpreet Kaur, 2024-06-28 We are very pleased to introduce the proceedings of the International Conference on Latest Trends in Engineering and Technology ICLTET 2023 Papers were well presented in the conference in the fields of Artificial Intelligence Machine learning IOT Communication Networks Mechanical Engineering Civil Engineering Nano Material Research Business Management and many more to arouse a high level of interest The presented papers maintained the high promise suggested by the written abstracts and the program was chaired in a professional and efficient way by the session chair who were selected for their expertise in the subject The number of delegates was also highly gratifying showing the high level of interest in the subject This Proceeding provides the permanent record of what was presented They indicate the state of development at the time of writing of all aspects of this important topic and will be invaluable to all academicians and researchers in the field for that reason Finally it is appropriate that we record our thanks to our fellow members of the Technical Organizing Committee for encouraging participation from those areas We are also indebted to those who served as session chair and reviewers without their support the conference could not have been the success that it was We also acknowledge the authors themselves without whose expert input there would have been no conference Their efforts made a great contribution to its success New Formulas for America's Workforce ,2003 Nation's Health ,1921

Thesaurus of ERIC Descriptors, 1990 4th 7th eds contain a special chapter on The role and function of the thesaurus in education by Frederick Goodman Health Care Finance, Economics, and Policy for Nurses Betty Rambur, 2024-11-29 Delivers knowledge to support a lifetime of informed impactful advocacy This concise practical text written for all nursing roles and levels of experience synthesizes the complexities of health economics finance payment ethics and civic responsibility into an easy to understand non partisan guide to health policy and activism It is distinguished from similar texts by its discussion of economic and financial dynamics in health care as a precursor to policy and advocacy in nursing In addition to being revised and updated the book includes substantially expanded material on artificial intelligence and large language platforms information quality safety and costs health equity civics laws administrative rules and Supreme Court decisions nurses on boards Medicare Advantage and Part D outpatient pharmaceuticals the impact of mergers and acquisitions on nurses salaries and career opportunities and an entirely new chapter on the nursing workforce Written by a health economics and policy expert dean and award winning teacher recognized as a policy luminary by the American Association of Colleges of Nursing the resource discusses in depth the relationship between nursing and health care economics It traces the history of our health care system from the early 1900s through today and discusses the intersection of ethics and economics to provide nurses with the tools to thoughtfully analyze dilemmas arising from today s focus on the

bottom line Using a step by step skill building guide the book describes with the support of illustrative case how to use economic principles to shape organizations and public policy. It breaks down complex financial principles to facilitate understanding for nurses with no prior knowledge of this discipline Also included is updated information on the Patient Protection and Affordable Care Act and key subsequent legislation and Supreme Court decisions Additionally the book is compatible with online teaching and coursework Faculty resources include PowerPoint slides a test bank comprehensive review questions and sample syllabi New to the Third Edition Chapter 14 The Health Care Workforce What Nurses Need to Know Incorporates emerging innovations including social media applications. The Internet of Health Things IoHT and artificial intelligence Addresses reimbursement and payment reform links to upstream social determinants of health and health equity and value informed nursing practice Discusses mergers acquisitions and nurses career opportunities and income Provides up to date information on private equity s growing footprint and how it effects nursing practice Key Features Distills complex concepts into easy to understand information Addresses systems based practice domain of AACN Essentials Provides engaging case examples for all nursing roles and levels of experience Authored by a leading nurse expert policy leader former dean and award winning instructor Guides readers in using economic principles to shape organizations and public policy Provides chapter quizzes PowerPoint slides test bank comprehensive review questions and sample syllabi

**Core Values of Mathematics Education** Source Book of Educational Materials for Nuclear Medicine, 1981 **Contents** David Ann, 2022-10-20 Mathematics can be characterized as an endeavor to discover the patterns hidden within nature The math education content should be devised as a way of bringing out creativity within every individual who each have a different unique talent through the understanding of humanity and nature Mathematics is the subject dedicated to discovering the hidden patterns within nature Upon discovering this pattern you can create something that provides happiness to people Humans are part of nature Therefore the hidden patterns to making people happy must be embedded in the nature Then what are some of the things that can make people happy People of today are lonely They are waiting for something that can soothe their loneliness Smartphones are fairly recent example of an item that soothes people s loneliness Also people have thirst for anything that can extend their life span so they could live long and healthy lives What are some of the examples One of those items is new medicines that cure diseases that were previously impossible to cure Another example would be prescriptive tools such as MRI ultrasonic waves and CT Health and emotional issues are highly interrelated and all add up to allowing happy lives Every machinery or technological devices that bring happiness are included in the field of high tech industry Mathematics is a source technology for all high tech industry The level of a country s mathematics skills is equivalent to the level of a country's competence Today all first world countries have exceptional level of mathematics. The most ideal math education is an endeavor to discover the patterns hidden within nature Before you do that you first have to observe and starts from the very effort to find those patterns in animals and plants Biologists are people who find patterns in animals and plants The nature consists of plants and animals If you observe them well you would be able to uncover a distinctive original pattern in all of them A pattern is innately differentiated characteristic that every plant and animal has In order to bring this act of observation into a field of mathematics you have to be able to draw out those patterns The patterns of animals and plants are very sophisticated quite hard to realize the overarching pattern If you can tag every pattern you find with a number or a word you can turn the pattern into a form of an equation Then the overriding pattern becomes apprehensible As such numbers and languages are powerful tools that mathematicians use in the process of finding the hidden pattern behind the nature Once we find the pattern through observation and tag them with a number or a language we finally have the chance to discern the pattern itself Numbers and languages are key features in idealism that mathematicians support Physicians say the following If physicians do not utilize numbers and languages of mathematics we cannot even begin to collect our thoughts To simply put idealism of mathematics is an equation If you turn various possibilities of numbers into a language what you ll have in the end would be an equation Long sentences that contain numbers can be easily turned into an equation if you utilize a language There is a need to understand the saying The use of language has brought convenience to the field of mathematics. The difference between calculation and mathematics stems from this very idea Once you find the overriding pattern you have to find the overarching rule Because you have to figure out the reason why the structure of nature is created and goes extinct in order to find out the hidden pattern behind the nature Every living organism has a consistent pattern However there are patterns hidden within patterns A pattern and its destruction always exist side by side which makes it difficult for us to pinpoint the pattern of movement Furthermore a pattern might be multi dimensional which makes external detection rather difficult There seems to be some sort of a rule inside pattern but no one can be completely sure of what that pattern is precisely In order to discern patterns destruction of patterns and patterns that appear within another pattern people need to have higher perspective Higher perspective can be nurtured without limit by acquiring a refined taste in the humanities If we can cultivate classic taste for the humanities through reading so that we can understand societies that we do not live in we will have the ability to see the invisible hear the inaudible and gain insights into the world we ve never been The humanities is a story about people s lives It is about how creative people s lives were throughout their life and how beautiful their death was when the moment came The humanities is about life and death By studying the humanities people will gain new perspectives on profound subjects such as life and death creation and extinction time and space and finally the past present and the future Therefore they can analyze the world of patterns that impact other patterns If people can find the hidden pattern behind nature they can understand the secret behind life and death of plants and animals They can also understand the secret to creation and extinction of the nature Mathematicians are people who devise a prediction mechanism to make projections on what will happen to living organisms by finding hidden patterns behind the nature The most ideal mathematics education will enable you to cover fields of

expertise in natural science such as biology chemistry and physics Biologists are people who find pattern by observing the nature and draw it out Chemists then do their job of naming those that are visible tangible and have forms Physicians take care of the field of power and mechanisms that explain the process all living organisms maintain to keep their unique forms Mathematicians are people who devise a prediction mechanism to make projections on what will happen to living organisms by finding out hidden patterns behind the nature This is the very reason why we call mathematics the essence of natural science Comprehending the world of chemistry for the structure of nature and the world of physics for power and mechanism is vital to find out hidden patterns behind the nature We need to also understand the world of fractals chemistry and the world of chaos physics The world of chemistry and physics always maintain a structural relationship At the same time mathematicians figure out hidden patterns behind the nature by looking at both the world of chemistry and physics and speculating on what will happen to one organism and how big it will grow before it suddenly gets smaller and disappear 2022 10 20 David Ann Ph D PREFACE The Nation's Health John Augustus Lapp, Charles-Edward Amory Winslow, Frank Leslie The Radon Transform and Medical Imaging Peter Kuchment, 2014-01-01 This book surveys the main Rector, 1921 mathematical ideas and techniques behind some well established imaging modalities such as X ray CT and emission tomography as well as a variety of newly developing coupled physics or hybrid techniques including thermoacoustic tomography The Radon Transform and Medical Imaging emphasizes mathematical techniques and ideas arising across the spectrum of medical imaging modalities and explains important concepts concerning inversion stability incomplete data effects the role of interior information and other issues critical to all medical imaging methods For nonexperts the author provides appendices that cover background information on notation Fourier analysis geometric rays and linear operators The vast bibliography with over 825 entries directs readers to a wide array of additional information sources on medical imaging for further study Resources in Education ,1998 Bridging Mindset Gaps Dr. Tom Hallquist, 2021-03-19 This book is designed to help teachers administrators students and the general public develop an appreciation for the importance of education and encourage students to dream to wander to set goals and to find their passion This practical purpose and value driven approach is based on intrapersonal and interpersonal communication skills that ask the questions Who am I Where am I going How do I get there By helping understand one s strengths and weaknesses by failing and learning from our failures by developing self actualization and by developing curiosity to develop the necessary skills to be effective members of society

Targeting the Nation's Youth Bruce J. Gevirtzman, 2022-04-18 Major changes on what we teach kids are taking place from white privilege to subliminal racism from gender studies in the first grade to the decimation of biological sciences in high school from the reordering of American history to the rethinking of American core social cultural and political values from the compulsory study of social justice principles to the dismissal of free speech the nuclear family and American sovereignty as outdated outmoded and out of touch This book delves into what is being taught in schools today and why Area Wage

Survey ,1982 Handbook of Scientific Proposal Writing A.Yavuz Oruc,2011-10-25 Investigators their home institutions and funding agencies play significant roles in the development and outcomes of scientific projects Submitting a proposal to a funding agency is only one dimension of a multivariable and complex funding process and understanding this is a good first step toward unlocking the puzzle behind why some research proposals receive awards while others are declined The Handbook of Scientific Proposal Writing offers researchers and research administrators a broad perspective on the process of initiating and conducting funded scientific research projects Written for students and researchers in all fields and disciplines this reference offers a holistic approach to conceiving and then converting new ideas into effective proposals It focuses on the technical aspects of writing proposals rather than the fund raising issues Chapters provide full coverage of the scientific method including information on how scientific research should be conducted Providing the tools necessary to organize ideas and obtain the funds needed to effectively manage projects the Handbook of Scientific Proposal Writing includes 56 figures and 25 tables to help convey key ideas More than 150 citations that provide pointers to additional sources for further reading Examples to help the reader ease through more abstract concepts End of chapter questions to stimulate further examination and comprehension Vertical File Index ,1937

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