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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			*	-	-	-	•	-

RR

HEMODYNAMICS

	YNAMICS		
CO		L/min	HR*SV
	Cardiac Outs		VO2/Ca-vO2 (fick)
CI	2.5-3.6	L/min/m²	CO/BSA
	Cardiac Ind	leux	
EF	55-78	26	SVEDV
	Ejection Fra	action	
HR	60-90	bpm	CO/SV
	Heart Rate		
sv	69-87	mL/beat	CO/HR
	Stroke Volu		
SI	41-60	mL/beat/m²	CI/HR
	Stroke Volu		
BFVR	0.9-1.4	ratio	CIVBVI
DEVE			CIVEVI
		Volume Ratio	
BV	3-5.1	L	PV/(1-Hct)
	Blood Votus	me	
PELESS			
MAP	70-105	mmHg	(SP+2DP)/3
		ial Pressure	
MPAP		mmHg	(PSP+2PDP)/3
	Mean Pulm	onary Arterial P	ressure
PP	20-70	mmHg	SP-DP
	Pulse Press	sune	
RPP	6000-12000	mmHg*bpm	HR*SP
-		ure Product	
CPP	60-80	mmHg	DP-PCWP
		erfusion Pressu	
COP	23-29	mmHg	
COP			(glob*1.4)+(alb*5.5)
-		cotic Pressure	
	ANCES		
SVR		dyn*s/cm5	
		ascular Resista	
SVRI			((MAP-CVP)*79.92)/CI
	Systemic V	ascular Resista	nce Index
PVR	20-120	dyn*s/cm5	((MPAP-WP)*79.92)/CC
	Pulmonary	Vascular Resist	ance
PVRI	30-240		((MPAP-WP)*79.92)/CI
		Vascular Resist	
-P-1-2-12	AC WORK	THE PERSON NAMED IN	
LCWI	3.4-4.2	kg*m/m²	CI*MAP*0.0144
			CI 1000 0.0144
-		ork Index, Left	
RCWI		g*m/m²	CI*MPAP*0.0144
		ork Index, Right	
LVSWI		g*m/m²	SI*MAP*0.0144
		Stroke Work Inc	
RVSWI	7.9-9.7	g*m/m²	SI*MPAP*0.0144
	Ventricular	Stroke Work Inc	dex, Right
LECTR	DOCARDIO	RAPHY	- 3.5
	0.34-0.42		(QT)/(sqrtRR)
	Q-T interval		
	0.42-1.2	5	RR interval
RR	ni values		equation

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

E-Marie	1.00	in the contract of the contrac	recoperation y reason	
VT	400-600		WI*VT	
	Tidal Vo			
VE	4.0-8.0	L/min Ventilation	VT*RR	
Vo	80-300	mL	(VT*(PaCO2-PECO2))/PaCO2	
		pace (physic		
FVC	>4.0	L	Forced Vital Capacity	
FEV:	>3.0	L	FEV1/FVC = >60%	
		Espiratory v		
Qs/Qt	0.0-7.0	%	Shunt, physiologic	
	((CcapC	2-CaO2V(C	capO2-CvO2))*(100)	
A-a GRA	DIENT	- 2055	Consequence (CC Co. 11)	
PA-eO2	5-25	mmHg	A-a Gradient	
	(ICFRO2)	*IPB-PH2O))-(PaCO2/R))-(PaO2)	
PA-aO2 c		mmHg	2.5+(0.25*age)	
		dient, age-c		
PAO2	95-105		Alveolar Oxygen Tension	
)-(PaCO2/R)	
PaO2	80-100		arterial Oxygen Tension	
			ted=100-(0.33*age)	
-				
PIO ₂		mmHg	(FIO2)*(PB-PH2O)	
		Oxygen Te		
PB	0-760	mmHg	Barometric Pressure	
			5*alt*10^-6))^5.2561)	
FIO2	19-21	96	Fraction of inspired O2	
PH ₂ O	47	mmHg	Water vapor (partial press.)	
R	0.7-1	ratio	Respiratory Quotient	
OXYCE D	Terestant and	ENT		
CaO2	17-20	mL/dL	arterial Oxygen Content	
			+(PaO2*0.0031)	
CcapO2		mL/dL	capillary Oxygen Content	
CCapuz			2))+(PaO2*0.0031)	
CvO2				
CVU2	12-15	mL/dL	mixed venous O2 Content	
_			+(PvO2*0.0031)	
Ca-vO2	4 - 5	mL/dL	(CaO2)-(CvO2)	
	CONVOCA	Content Dr	fference, arterial-venous	
PaO2				
	80-100	mmHg	arterial Oxygen Tension	
SaOz			arterial Oxygen Tension arterial Oxygen Saturation	
PvO2	80-100	mmHg		
	80-100 96-99	mmHg %	arterial Oxygen Saturation mixed venous O2 Tension	
Pv02 Sv02	80-100 96-99 35-45 60-80	mmHg % mmHg %	arterial Oxygen Saturation mixed venous O2 Tension mixed venous O2 Saturation	
PvO2 SvO2 PaCO2	80-100 96-99 35-45 60-80 35-45	mmHg % mmHg % mmHg	arterial Oxygen Saturation mixed venous O2 Tension mixed venous O2 Saturation arterial CO2 Tension	
PvO2 SvO2 PaCO2 PACO2	80-100 96-99 35-45 60-80 35-45 35-45	mmHg % mmHg mmHg mmHg	arterial Oxygen Saturation mixed venous O2 Tension mixed venous O2 Saturation arterial CO2 Tension Alveolar CO2 Tension	
PvO2 SvO2 PaCO2 PACO2 PvCO2	80-100 96-99 35-45 60-80 35-45 35-45 40-50	mmHg % mmHg mmHg mmHg	arterial Oxygen Saturation mixed venous Oz Tension mixed venous Oz Saturation arterial COz Tension Alveolar COz Tension mixed venous COz Tension	
PvOz SvOz PaCOz PACOz PvCOz PECOz	80-100 96-99 35-45 60-80 35-45 35-45 40-50 25-35	mmHg % mmHg mmHg mmHg mmHg	arterial Oxygen Saturation mixed venous O2 Tension mixed venous O2 Saturation arterial CO2 Tension Alveolar CO2 Tension	
PvO2 SvO2 PaCO2 PACO2 PvCO2 PECO2	80-100 96-99 35-45 60-80 35-45 35-45 40-50 25-35	mmHg % mmHg % mmHg mmHg mmHg	arterial Oxygen Saturation mixed venous O2 Tension mixed venous O2 Saturation arterial CO2 Tension Alveolar CO2 Tension mixed venous CO2 Tension Expired CO2 Tension	
PvOz SvOz PaCOz PACOz PvCOz PECOz	80-100 96-99 35-45 60-80 35-45 35-45 40-50 25-35	mmHg % mmHg mmHg mmHg mmHg	arterial Oxygen Saturation mixed venous O2 Tension mixed venous O2 Saturation arterial CO2 Tension Alveolar CO2 Tension mixed venous CO2 Tension	
PvO2 SvO2 PaCO2 PACO2 PvCO2 PECO2	80-100 96-99 35-45 60-80 35-45 40-50 25-35	mmHg % mmHg % mmHg mmHg mmHg	arterial Oxygen Saturation mixed venous Oz Tension mixed venous Oz Saturation arterial COz Tension Alveolar COz Tension mixed venous COz Tension Expined COz Tension Ca-vOz/CaOz	
PvO2 SvO2 PaCO2 PACO2 PvCO2 PECO2	80-100 96-99 35-45 60-80 35-45 40-50 25-35	mmHg % mmHg mmHg mmHg mmHg Extraction i	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	
PvOz SvOz PaCOz PACOz PvCOz PECOz Oz ext	80-100 96-99 35-45 60-80 35-45 40-50 25-35 20-30 Oxygen 750-120	mmHg % mmHg mmHg mmHg mmHg mmHg mmHg one	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	
PvO2 SvO2 PaCO2 PACO2 PvCO2 PECO2 O2 ext	80-100 96-99 35-45 60-80 35-45 35-45 40-50 25-35 20-30 Oxygen 750-120 Oxygen	mmHg % mmHg mmHg mmHg mmHg mmHg mmHg mmH	arterial Oxygen Saturation mixed venous Oz Tension mixed venous Oz Saturation arterial COz Tension Alveolar COZ Tension mixed venous COZ Tension Expired COZ Tension Ca-vOZ/CaOZ Rate CO*CaOZ*10	
PvOz SvOz PaCOz PACOz PvCOz PECOz Oz ext	80-100 96-99 35-45 60-80 35-45 35-45 40-50 25-35 20-30 Oxygen 750-120 Oxygen 550-650	mmHg % mmHg mmHg mmHg mmHg mmHg o mmHg mmHg mm	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	
PVO2 SVO2 PaCO2 PACO2 PVCO2 PECO2 O2 ext DO2	80-100 96-99 35-45 60-80 35-45 35-45 40-50 25-35 20-30 Oxygen 750-120 Oxygen 550-650 Oxygen	mmHg % mmHg mmHg mmHg mmHg mmHg mmHg mmH	arterial Oxygen Saturation mixed venous Oz Tension mixed venous Oz Saturation arterial COz Tension Alveolar COz Tension mixed venous COz Tension Expired COz Tension Ca-vOz/CaOz Rate CO*CaOz*10 fm2 CI*CaOz*10 dex	
PvO2 SvO2 PaCO2 PACO2 PvCO2 PECO2 O2 ext	80-100 96-99 35-45 60-80 35-45 35-45 40-50 25-35 20-30 Oxygen 750-120 Oxygen 550-650 Oxygen 200-280	mmHg % mmHg mmHg mmHg mmHg mmHg mmHg mmH	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 dex CO*CaO2*10	
PvOz SvOz PaCOz PACOz PvCOz PECOz Oz ext DOz DOz I	80-100 96-99 35-45 60-80 35-45 35-45 40-50 25-35 11-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-	mmHg % mmHg mmHg mmHg mmHg mmHg Extraction i 0 mL/min Delivery mL/min Consumpts	arterial Oxygen Saturation mixed venous O2 Tension mixed venous O2 Saturation mixed venous O2 Saturation arterial CO2 Tension Alveolar CO2 Tension mixed venous CO2 Tension Expired CO2 Tension Ca-vO2/CaO2 Rate CO*CaO2*10 dex CO*CaO2*10 dex CO*Ca-vO2 on	
PVO2 SVO2 PaCO2 PACO2 PVCO2 PECO2 O2 ext DO2	80-100 96-99 35-45 60-80 35-45 35-45 40-50 25-35 20-30 Oxygen 750-120 Oxygen 550-650 Oxygen 200-280 Oxygen 115-165	mmHg % mmHg mmHg mmHg mmHg mmHg mmHg mmH	arterial Oxygen Saturation mixed venous O2 Tension mixed venous O2 Saturation arterial CO2 Tension arterial CO2 Tension mixed venous CO2 Tension mixed venous CO2 Tension Expired CO2 Tension Ca-vO2/CaO2 Rate CO*CaO2*10 Im2 CI*CaO2*10 dex CO*Ca-vO2 On On On Other Control Control Control CO2 CI*Ca-vO2	
PvOz SvOz PaCOz PaCOz PvCOz PECOz Oz ext DOz DOz I VOz	80-100 96-99 35-45 60-80 35-45 35-45 40-50 25-35 20-30 Oxygen 750-120 Oxygen 200-280 Oxygen 115-165 Oxygen 115-165 Oxygen	mmHg % mmHg mmHg mmHg mmHg mmHg mmHg mmH	arterial Oxygen Saturation mixed venous O2 Tension mixed venous O2 Saturation arterial CO2 Tension arterial CO2 Tension mixed venous CO2 Tension mixed venous CO2 Tension Expired CO2 Tension Ca-vO2/CaO2 Rate CO*CaO2*10 Im2 CI*CaO2*10 dex CO*Ca-vO2 on Im2 CI*Ca-vO2 on Im6ex	
PvOz SvOz PaCOz PACOz PvCOz PECOz Oz ext DOz DOz I	80-100 96-99 35-45 60-80 35-45 35-45 40-50 25-35 20-30 Oxygen 750-120 Oxygen 200-280 Oxygen 115-165 Oxygen 115-165	mmHg % mmHg mmHg mmHg mmHg mmHg mmHg mmH	arterial Oxygen Saturation mixed venous O2 Tension mixed venous O2 Saturation mixed venous O2 Saturation arterial CO2 Tension Alveolar CO2 Tension mixed venous CO2 Tension Expired CO2 Tension Ca-vO2/CaO2 Rate CO*CaO2*10 fm2 CI*CaO2*10 dex CO*Ca-vO2 on Index Wt*VCO2	

resp/min Respiratory Rate

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Clifford Lane

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Kinn's The Medical Assistant Deborah B. Proctor, Brigitte Niedzwiecki, Julie Pepper, Payel Madero, Marti Garrels, Helen Mills, 2016-05-04 Comprehensive Medical Assisting begins with Kinn Elsevier's 60th Anniversary edition of Kinn's The Medical Assistant 13th Edition provides you with real world administrative and clinical skills that are essential to working in the modern medical office An applied learning approach to the MA curriculum is threaded throughout each chapter to help you further develop the tactile and critical thinking skills necessary for working in today's healthcare setting Paired with our adaptive solutions real world simulations EHR documentation and HESI remediation and assessment you will learn the leading skills of modern administrative and clinical medical assisting in the classroom Basics of Diagnostic Coding prepares you to use the ICD 10 coding system Learning objectives listed in the same order as content makes it easy to review material Clinical procedures integrated into the TOC give you a guick reference point Professional behavior boxes provide guidelines on how to interact with patients families and coworkers Patient education and legal and ethical issues are described in relation to the Medical Assistant's job Applied approach to learning helps you use what you've learned in the clinical setting Learning objectives and vocabulary with definitions highlight what s important in each chapter Critical thinking applications test your understanding of the content Step by step procedures explain complex conditions and abstract concepts Rationales for each procedure clarify the need for each step and explains why it s being performed Portfolio builder helps you demonstrate your mastery of the material to potential employers NEW Chapter on The Health Record reviews how you ll be working with a patient's medical record NEW Chapter on Technology in the Medical Office introduces you to the role EHR technology plays in the medical office NEW Chapter on Competency Based Education helps you understand how your mastery of the material will affect your ability to get a job NEW Clinical procedure videos helps you visualize and review key procedures Kinn's The Clinical Medical Assistant Deborah B. Proctor, Brigitte Niedzwiecki, Julie Pepper, Marti Garrels, Helen Mills, 2016-05-10 Clinical Medical Assisting begins with Kinn Elsevier's Kinn's The Clinical Medical Assistant 13th Edition provides you with the real world clinical skills that are essential to working in the modern medical office An applied learning approach to the MA curriculum is threaded throughout each chapter to help you further develop the tactile and critical thinking skills necessary to assist with medications diagnostic procedures and surgeries Paired with our adaptive solutions real world simulations EHR documentation and HESI remediation and assessment you will learn the leading skills of modern clinical medical assisting in the classroom Applied approach to learning helps you use what you ve learned in the clinical setting Clinical procedures integrated into the TOC provide you with a quick reference Detailed learning objectives and vocabulary with definitions highlight what s important in each chapter Step by step procedures explain complex conditions and abstract concepts Rationales for each procedure clarify the need for each step and explains why it s being performed Critical thinking applications test your understanding of the content Patient education and legal and ethical issues are described in relation to the clinical Medical Assistant's job Threaded case scenarios help you apply concepts to realistic clinical situations Portfolio builder helps you demonstrate clinical proficiency to potential employers NEW Chapter on The Health Record reviews how you will maintain and interact with the medical record NEW Chapter on Competency Based Education helps you confidently prepare for today's competitive job market NEW Clinical procedure videos help you to visualize and review key procedures

Math and Dosage Calculations for Medical Careers' 2007 Ed.2007 Edition,

Medical Assisting Simplified: Pharmacology Joanna Holly, 2020-04-21 Medical Assisting Simplified Pharmacology presents the core basic concepts of pharmacology in a light hearted humorous readable extremely practical style that makes teaching and learning fun A host character guides students through pharmacology concepts needed to pass certification exams required by CAAHEP and ABHES Boxes with eye catching icons provide practical advice about workplace scenarios and other topics More than 175 full color illustrations enhance visual learning Kinn's The Medical Assistant - E-Book Deborah B. Proctor, Alexandra Patricia Adams, 2014-03-27 The most comprehensive medical assisting resource available Kinn s The Medical Assistant 11th Edition provides unparalleled coverage of the practical real world administrative and clinical skills essential to your success in health care Kinn s 11th Edition combines current reliable content with innovative support tools to deliver an engaging learning experience and help you confidently prepare for today s competitive job market Study more effectively with detailed Learning Objectives Vocabulary terms and definitions and Connections icons that link important concepts in the text to corresponding exercises and activities throughout the companion Evolve Resources website and Study Guide Procedure Checklist Manual Apply what you learn to realistic administrative and clinical situations through an Applied Learning Approach that integrates case studies at the beginning and end of each chapter Master key skills and clinical procedures through step by step instructions and full color illustrations that clarify techniques Confidently meet national medical assisting standards with clearly identified objectives and competencies incorporated throughout the text Sharpen your analytical skills and test your understanding of key concepts with critical thinking exercises Understand the importance of patient privacy with the information highlighted in helpful HIPAA boxes Demonstrate your proficiency to potential employers with an interactive portfolio builder on the companion Evolve Resources website Familiarize yourself with the latest administrative office trends and issues including the Electronic Health Record Confidently prepare for certification exams with online practice exams and an online appendix that mirrors the exam outlines and provides fast efficient access to related content Enhance your value to employers with an essential understanding of emerging disciplines and growing specialty areas Find information quickly and easily with newly reorganized chapter content and charting examples Reinforce your understanding through medical terminology audio pronunciations Archie animations Medisoft practice management software exercises chapter guizzes review activities and more on a completely revised companion Evolve Resources website Study Guide and Procedure Checklist Manual for Kinn's The Medical Assistant - E-Book

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educational competencies with comprehensive coverage of clinical skills NEW Advanced Clinical Skills unit features three new chapters on IV therapy radiology basics and radiology positioning to support expanded medical assisting functions NEW Coverage of telemedicine enhanced infection control related to COVID 19 and catheterization NEW Artwork focused on assisting with imaging IVs and catheters along with updated equipment photos NEW Procedures address IV therapy limited scope radiography applying a sling and coaching for stool collection EXPANDED Information on physical medicine and rehabilitation EXPANDED Content on specimen collection including wound swab nasal and nasopharyngeal specimen Kinn's The Medical Assistant - E-Book Brigitte Niedzwiecki, Julie Pepper, 2022-11-20 Selected for Doody's Core Titles 2024 in Medical Assisting More than any other product on the market the most successful Medical Assistants begin their careers with Kinn Known for more than 65 years for its alignment with national curriculum standards Kinn s The Medical Assistant An Applied Learning Approach 15th Edition teaches the real world administrative and clinical skills essential for a career in the modern medical office always with a focus on helping you apply what you ve learned This edition features a new unit on advanced clinical skills and expanded content on telemedicine infection control related to COVID 19 IV therapy radiology rehabilitation insurance coding privacy data security and much more With its approachable writing style appropriate for all levels of learners and a full continuum of separately sold adaptive solutions real world simulations EHR documentation experience and HESI remediation and assessment quickly master the leading skills to prepare for certification and a successful career in the dynamic and growing Medical Assisting profession Comprehensive coverage of all administrative and clinical procedures complies with accreditation requirements Step by step illustrated procedures include rationales and a focus on professionalism Electronic health record EHR coverage provides access to hands on activities using SimChart for the Medical Office sold separately Applied learning approach incorporates threaded case scenarios and critical thinking applications Patient education and legal and ethical features at the end of each chapter reinforce legal and communications implications within Medical Assisting practice Key vocabulary terms and definitions are presented at the beginning of each chapter highlighted in text discussions and summarized in a glossary for quick reference NEW Content aligns to 2022 Medical Assisting educational competencies NEW Advanced Clinical Skills unit features three new chapters on IV therapy radiology basics and radiology positioning to support expanded medical assisting functions NEW Coverage of telemedicine enhanced infection control related to COVID 19 and catheterization NEW Procedures address IV therapy limited scope radiography applying a sling and coaching for stool collection UPDATED Coverage of administrative functions includes insurance coding privacy data security and more UPDATED Online practice exam for the Certified Medical Assistant matches 2021 test updates EXPANDED Information on physical medicine and rehabilitation EXPANDED Content on specimen collection including wound swab nasal and nasopharyngeal specimen collections

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