Critical Care Cheat Sheet

Borders

Modes of Ventilation

Micde SIAV Synchronised Intermittent Mandatory Synchronised Intermittent Mandatory Ventilation: Ventilation: Ventilation: Ventilation: Ventilation: Passare Control - Patient is supplied with a set Total Volume Passare Control - Patient is supplied with a set pressure Even with a set pressure Even Sign - CPANPIS Soonan-Rossous - Control Patient Soonan-Rossous - C	Components -tylume or pressure controlled -thandstory breaths are set -time-cycled -thandstory breaths are set -time-cycled -thandstory breaths -thandstory breathing -thandsto	Description VC SIAV – the patient is supplied will set tidal solume VT during mandata set tidal solume VT during mandata breath. Spontaneous bresilning is permitted during the expansion phase on FEEP level. During spontaneous breathing at PEI seed, the patient is supported by Pressure Support. The patient breathes at the PEEP level. Compared to atmospheric pressure.
Volume Control - Patient is supplied with a set Tidal Volume Pressure Control - Patient is supplied with a set pressure Pres	Permits spontaneous breathing	on PEEP level. During spontaneous breathing at level, the patient is supported by Pressure Support.
SPN – CPAP/PS Spontaneous – Continuous Positive Alinway Pressure/Pressure Support	Spontaneous breathing -Continuous positive pressure level with or without pressure support	The patient breathes at the PEEP lev Compared to atmospheric pressure, the airway pressure is increased duri the complete breathing cycle – inspiration & expiration.
PC-BIPAP Pressure Control – Biphasic Positive Airway Pressure	Pressure-controlled *Inne-cycled *Machine or pation-triggered *Inspiration and expiration *grictroitied *Permitted spontaneous breathing during whole breathing cycle	The patient can breathe spontaneous at any time, but the number of mandatory breaths are specified. Mandatory breaths are synchronised with the breathing attempts of the patient both for ingination & expiration.
PC.APRV Pressure Control – Airway Pressure Release Ventilation	Pressure-controlled Time-cycled Machine-triggered Spontaneous breathing under	The patient's spontaneous breathing takes place at the upper pressure lev P _{min} . This pressure P _{min} is maintaine for the duration of T _{min} . To execute a
P=Pressure T=Time	continuous positive breathing pressure with brief pressure relief times	active expiration, the pressure is reduped for the brief period Tow to Pow.

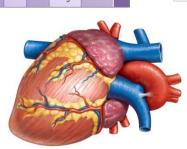


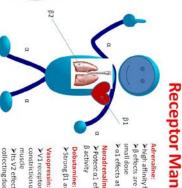
Arterial Blood Gases

ABGs	Normal 7.35-7.45	Respiratory Acidosis	Respiratory Alkalosis	Metabolic Acidosis	Metabolic Alkalosis
PaCO2	4.4-6.0	⇒	(Normalor	Normal or
нсоз	21-27	Normalor	Normalor	(>
Common Causes		Respiratory Depression (Drugs, CNS, Trauma) COPD, Pneumonia	Hyperventilation – Anxiety, Pain, Over-Ventilation	Diabetes, shock, renal failure	Sodium Bicarbonate Overdose, Diuresis, prolonged vomiting,

Vasopressors

Pressor	Receptors	Main Effect	Main Shock Use
Adrenaline	α1, α2, β1, β2	Vasoconstriction Inotrophy, chronotrophy	Cardiac Arrest AAA, Anaphylaxis Asthma
Noradrenaline	a1, a2	Vasoconstriction Chronotrophy	Septic Shock 1 st line for hypotension in
Phenylephrine	n1	Vasoconstriction	Hypotension
Metaraminol	8	Vasoconstriction	Hypotension
Vasopressin	V1	Vasoconstriction	Adjunct to Noradrenaline for hypotension
Dobutamine	\$1, \$2	Inotrophy Mild vasodilation	Cardiogenic Shock





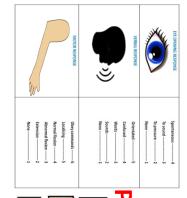
small dose	>β effects are more pronounce	>high affinity for β1, β2 and α1

α1 effects at a higher dose

Noradrenaline:
> Potent α1 effects and modest β activity

Dobutamine: ➤Strong β1 and β2 effects

>Its V2 effects increase renal collecting duct permeability to improve water reabsorption. Vasopressin: V1 receptors causing constriction of vascular smooth









Haematology



Potassian K+ Ca Bectrolytes Magnesian S	sec	sec	
Clivride CO.	26.0-36.0	10.5-13.5	

Normal Values

TEST	UNITS	REF RANGE
₽	g/L	130-180 (M) 115-165 (F)
WBC	X10~9/L	4.0-11.0
Platelets	X10^9/L	150-400
Neutrophils	X10^9/L	2.0-7.5
PT	Sec	10.5-13.5
APTT	sec	26.0-36.0

Transmit Con
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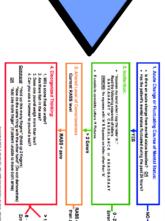


Richmond

Agitation Sedation

Scale

CAM-ICU



RASS ≥ -2 Proceed to CAM-ITU RASS <-2 STOP Recheck