

Acid-Base, Fluids, Lytes pocketcard Set					
Acid-Base Disorders Basics					
	Normal range	Simple acid-base disorders			
	Arterial	Venous	Met acid	Resp acid	Met alk
pH	7.36-7.44	7.33-7.43	7.2	7.2	7.4
pCO ₂	36-44 mmHg	36-48 mmHg	55	55	35
HCO ₃ ⁻	21-27 mEq/L	23-29 mEq/L	12	12	28
pO ₂	75-100 mmHg	53-67 mmHg			
O ₂ sat	>90%	80%-85%	75%	75%	95%
BE	-2 to +3		-10	-10	+10
Examples					
• Diarrhea • COPD • Vomiting • Hyperventilation • CKD • Resp alkalosis • Starvation • Sepsis					
Algorithm for Determining Acid-Base Status					
Measure blood pH, PCO ₂ , PaCO ₂ , HCO ₃ ⁻ , and Cl ⁻					
pH 7.36-7.44 pH 7.36-7.44 pH 7.36-7.44					
Serum HCO ₃ ⁻ 22 mEq/L Arterial PaCO ₂ 40 mmHg Normal Cl ⁻ 98 mEq/L					
Metabolic Acidosis Respiratory Acidosis Respiratory Alkalosis Metabolic Alkalosis					
Compensation: PaCO ₂ 4.12 mEq/L for every 10 mEq/L fall in HCO ₃ ⁻ Compensation: HCO ₃ ⁻ 7 mEq/L for every 10 mEq/L rise in PaCO ₂ Compensation: HCO ₃ ⁻ 4 mEq/L for every 10 mEq/L fall in PaCO ₂ Compensation: PaCO ₂ 7 mEq/L for every 10 mEq/L rise in HCO ₃ ⁻					
Causes of non-anion gap metabolic acidosis Causes of anion gap metabolic acidosis Compensation: PaCO ₂ 7 mEq/L for every 10 mEq/L rise in HCO ₃ ⁻					
DL: DIARRHEA (Non-anion gap increased) A - Diarrhea (loss of HCO ₃ ⁻) Ingest - low urine Na ⁺ R - Renal tubular acidosis (RTA) D - Drugs: acetazolamide or topiramate (increase HCO ₃ ⁻ wasting); furosemide or thiazide (RTA) O - Obstructive uropathy C - Other: Recovery from hyperventilation (low HCO ₃ ⁻ after pCO ₂ rises), expansion without rapid diffusion of serum HCO ₃ ⁻ to RBCs F - Folate: renal tubular loss (broaden replacement or vitamin-correctable folate) U - Urine: in early stages S - Sweating (loss of NaCl and water)					
DL: MAMPLES (Anion gap increased) A - Anion R - Renal failure M - Methanol P - Paraldehyde, propylene glycol, pyrogallol, acid (or 1-oxopropanone, acetoacetaldehyde, benzoin, the carbonyl compound) L - Lactic acid E - Ethylene glycol, ethanol, methanol S - Starvation ketoacidosis					

Acid-Base, Fluids, Lytes Pocketcard Set

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