

Approach to Arterial Blood Gases (ABGs)

1. Adequate oxygenation?

2. Define the acid-base disturbance

3. Identify the primary (P) process

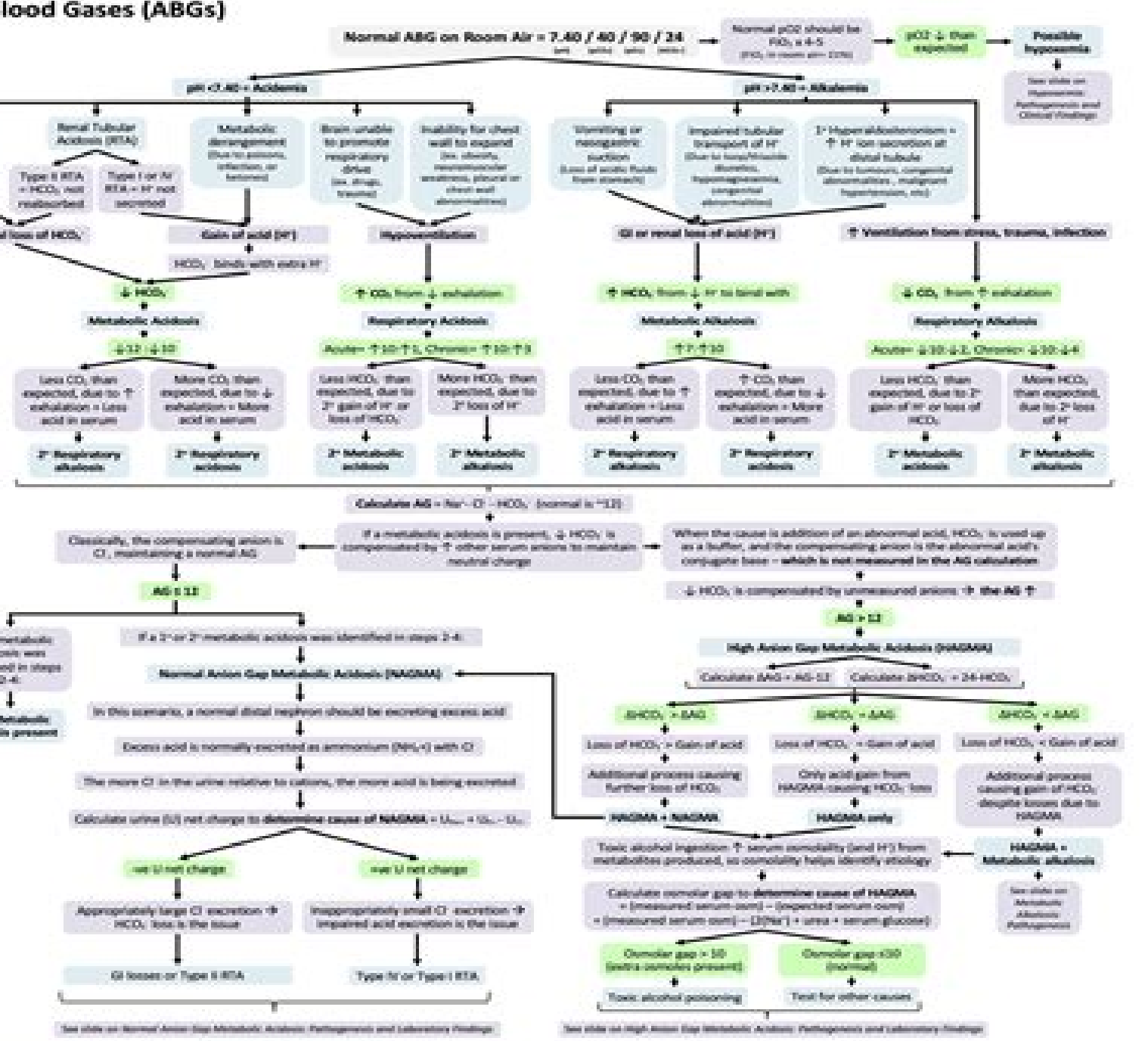
4. Compensatory mechanisms in lungs and kidneys attempt to lose/retain CO₂ or HCO₃⁻ to maintain normal pH. Determine if compensation is appropriate (approximate normal ratio of change in pCO₂ : HCO₃⁻ is shown in green boxes). If inappropriate, there is a secondary (S) process occurring

5. Calculate anion gap (AG) to determine the presence and type of metabolic acidosis. This is done regardless of the S or P process, as there may also be a hidden metabolic acidosis

6. HAGMA only in normal blood buffer systems, acid gain should match bicarbonate lost. If not, identify if another process is causing an inappropriate loss or gain of HCO₃⁻. Gain of acid (ΔAG) = AG-12. Loss of HCO₃⁻ (ΔHCO₃⁻) = 24-HCO₃⁻

7. Calculate Osmolar Gap (for HAGMA) or Urine net charge (for NAGMA) to narrow the etiology

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* AG at time of publication



Abmg Study Guide

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Reproductive Genetic Testing, Impact Upon Women Elizabeth Jean Thomson, Karen H. Rothenberg, 1993

Guide to North American Graduate and Postgraduate Training Programs in Human Genetics, 1996

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