

Approach to Arterial Blood Gases (ABGs)

1. Adequate oxygenation?

2. Define the acid-base disturbance

3. Identify the primary (P) process

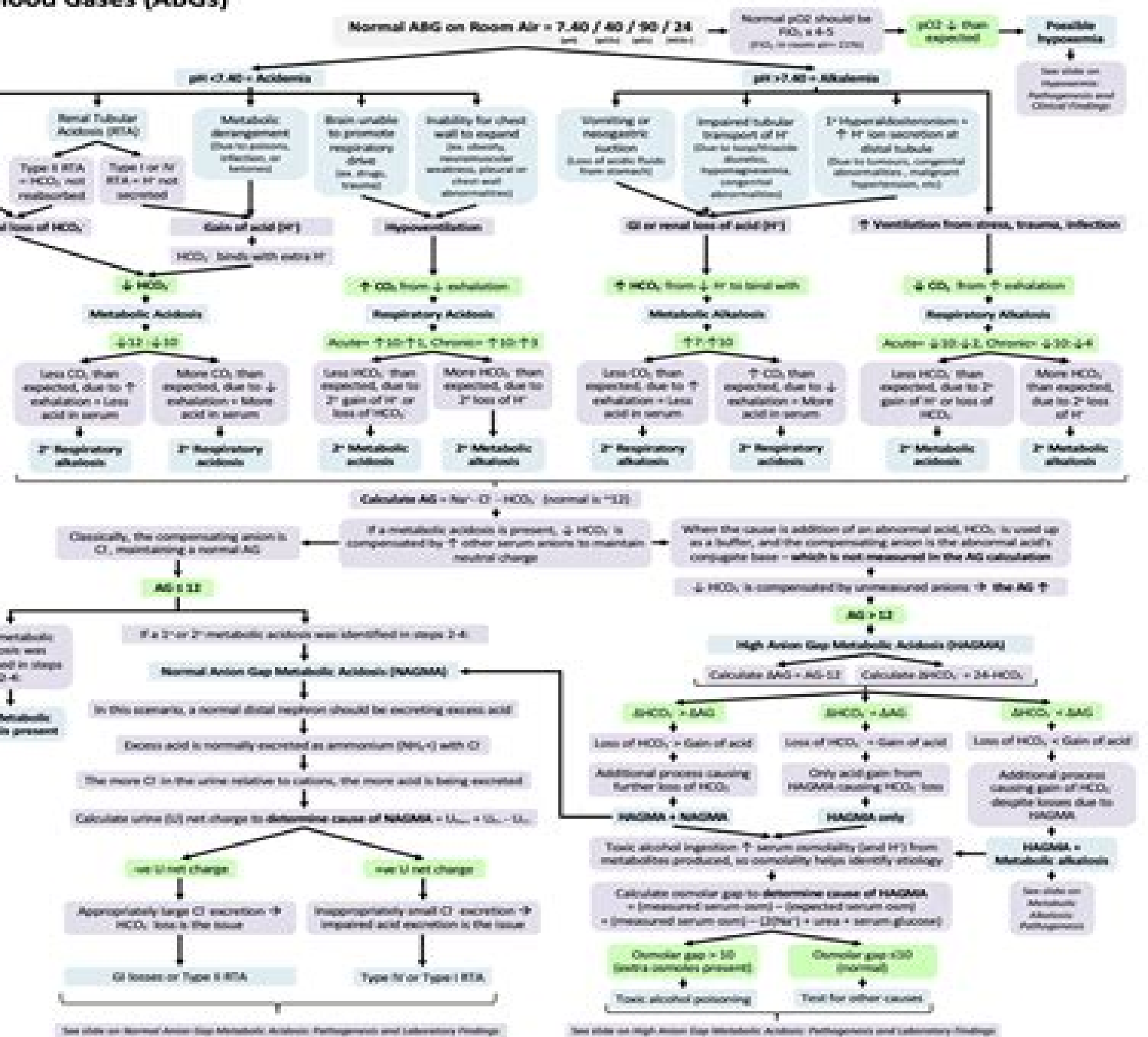
4. Compensatory mechanisms in lungs and kidneys attempt to lose/retain CO₂ or HCO₃⁻ to maintain normal pH. Determine if compensation is appropriate (approximate normal ratio of change in pCO₂ : HCO₃⁻ is shown in green boxes). If inappropriate, there is a secondary (S) process accounting

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

Sebastian Brünink

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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1. Understanding the eBook Abmg Study Guide
 - The Rise of Digital Reading Abmg Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Abmg Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Abmg Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Abmg Study Guide
 - Personalized Recommendations
 - Abmg Study Guide User Reviews and Ratings
 - Abmg Study Guide and Bestseller Lists
5. Accessing Abmg Study Guide Free and Paid eBooks
 - Abmg Study Guide Public Domain eBooks
 - Abmg Study Guide eBook Subscription Services
 - Abmg Study Guide Budget-Friendly Options
6. Navigating Abmg Study Guide eBook Formats

- ePub, PDF, MOBI, and More
- Abmg Study Guide Compatibility with Devices
- Abmg Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Abmg Study Guide
 - Highlighting and Note-Taking Abmg Study Guide
 - Interactive Elements Abmg Study Guide
- 8. Staying Engaged with Abmg Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Abmg Study Guide
- 9. Balancing eBooks and Physical Books Abmg Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Abmg Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Abmg Study Guide
 - Setting Reading Goals Abmg Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Abmg Study Guide
 - Fact-Checking eBook Content of Abmg Study Guide
 - Distinguishing Credible Sources
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 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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