

Approach to Arterial Blood Gases (ABGs)

1. Adequate oxygenation?

Normal ABG on Room Air = 7.40 / 40 / 90 / 24

Normal pCO_2 should be $\text{pCO}_2 \approx 4-5$ (pCO_2 in room air = 30)

$\text{pCO}_2 < 5$, then expected

Possible hypoxemia

2. Define the acid-base disturbance

$\text{pH} < 7.40 =$ Acidosis

$\text{pH} > 7.40 =$ Alkalosis

See slide on
Hypoxemia, Pathogenesis and Clinical Findings

3. Identify the primary (Δ^+) process

4. Compensation mechanisms in lungs and kidneys attempt to keep/retain CO_2 or HCO_3^- to maintain normal pH. Determination of compensation is appropriate (appropriate normal ratio of change in pCO_2 : HCO_3^- is shown in green boxes). If inappropriate, there is a secondary (Δ^-) process accounting

$\Delta^+ \text{ HCO}_3^-$

$\Delta^+ \text{ HCO}_3^-$

$\Delta^- \text{ HCO}_3^-$

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

Calculate $\text{AG} = \text{Na}^+ - \text{Cl}^- - \text{HCO}_3^-$ (normal is ≈ 12)

6. HAGMA: refer to normal blood buffer system, acid gain should match bicarbonate loss. If not, identify if another process is causing an inappropriate loss or gain of HCO_3^- .
 $\text{Gain of acid (AG)} = \text{AG} - 12$
 $\text{Loss of } \text{HCO}_3^- (\text{AHCO}_3^-) = 24 - \text{HCO}_3^-$

Classically, the compensating anion is Cl^- , maintaining a normal AG

Where the cause is addition of an abnormal acid, HCO_3^- is used up as a buffer, and the compensating anion is the abnormal acid's conjugate base - which is not measured in the AG calculation

$\text{AG} < 12$

$\Delta^- \text{ HCO}_3^-$ is compensated by unmeasured anions (B , the $\text{AG} - \text{F}$)

7. Calculate Cation Gap (Net阳离子) or Urine net charge (Net陽離子) to narrow the etiology

If a Δ^+ or Δ^- metabolic acidosis was identified in steps 2-4:

Normal Anion Gap Metabolic Acidosis (NAGMA)

In this scenario, a normal total cation should be exceeding excess acid

Excess acid is normally excreted as ammonium (NH_4^+) with Cl^-

The more Cl^- in the urine relative to cations, the more acid is being excreted

Calculate urine (U) net charge to determine cause of NAGMA: $\text{U}_{\text{Cl}^-} - \text{U}_{\text{Na}^+} - \text{U}_{\text{K}^+}$

Net U net charge

Appropriately large Cl^- excretion (B : HCO_3^- loss is the issue)

AG losses or Type II RBA

Inappropriately small Cl^- excretion (B : impaired acid excretion is the issue)

Type II or Type I RBA

High Anion Gap Metabolic Acidosis (HAGMA)

Calculate $\text{AG} = \text{AG} - 12$ Calculate $\text{AHCO}_3^- = 24 - \text{HCO}_3^-$

$\text{AHCO}_3^- = \text{BAG}$

Loss of $\text{HCO}_3^- >$ Gain of acid

Additional process causing further loss of HCO_3^-

$\text{HAGMA} = \text{NAGMA}$

Toxic alcohol ingestion (B : serum ammonia (and H_2S) from metabolism produced, so ammonia helps identify etiology)

Calculate anion gap to determine cause of HAGMA, $= (\text{measured serum cation}) - (\text{expected serum cation})$

$\text{Osmolar gap} > 10$ (ether solvents present)

Toxic alcohol poisoning

Test for other causes

See slide on Normal Anion Gap Metabolic Acidosis: Pathogenesis and Laboratory Findings

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* 10th or 11th year of publication

Legend:

Diagnose (Rate)

Mechanism

Lab Finding/Calculation

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Abmg Study Guide

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Abmg Study Guide:

A Guide to Genetic Counseling Diane L. Baker,Jane L. Schuette,Wendy R. Uhlmann,1998-11-05 Over the past decade science has made historic progress in identifying the genetic origins of human development and functioning From Down syndrome to sickle cell anemia hereditary cancers to neurologic conditions genetic tests now exist for dozens of human conditions Research on the human genome continues apace and the already considerable demand for genetic counseling services can only intensify as new genetic tests become available The first book devoted exclusively to the principles and practice of genetic counseling A Guide to Genetic Counseling prepares genetic counselors and health care providers to meet that demand Reflecting the experiences and expertise of more than a dozen genetic counseling medical and legal professionals this book defines the theory goals and core competencies associated with the practice of genetic counseling Combining clear step by step guidelines with many fascinating and instructive case studies it tutors readers in the gamut of skills procedures and ethical legal and psychosocial considerations integral to the genetic counseling process including Obtaining family histories and interviewing clients Performing medical genetic evaluations Patient education and psychosocial counseling Developing multicultural skills Case preparation and management Medical documentation Ethical and legal conduct Making the most of computer based resources Professional development A Guide to Genetic Counseling belongs on the syllabi of all medical and human genetics and genetics counseling certification programs It is an indispensable working resource for professional genetic counselors and all health care providers charged with educating patients in genetic diseases **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

Indonesia and ASEAN Plus Three Financial Cooperation Eko Saputro,2017-03-24 This book examines Financial regionalism in East Asia has stimulated not only a new architecture for regional governance but also a transformation in Indonesia s national regulatory framework As a relatively new phenomenon compared to trade regionalism financial regionalism has successfully shaped cooperative networks among financial authorities in East Asia In this incisive new book Eko Saputro explores how new financial alliances and regulatory frameworks will allow Indonesia to rapidly take a new place at the global table bringing the explosive growth that other Asian countries have seen to the archipelago nation This book will be of equal value to academics policy makers students and scholars both in the region and abroad The Oxford Handbook of Digital Technologies and Mental Health Marc N. Potenza,Kyle Faust,David Faust,2020-08-17 Digital technology use whether on smartphones tablets laptops or other devices is prevalent across cultures Certain types and patterns of digital technology use have been associated with mental health concerns but these technologies also have the potential to improve mental health through the gathering of information by targeting interventions and through delivery of care to remote areas The Oxford Handbook of Digital Technologies and Mental Health provides a comprehensive and authoritative

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