

ACID-BASE STUDY GUIDE

- Normal Plasma pH 7.35 to 7.45 (hydrogen (H⁺) concentration)
 - Higher this goes, higher the mortality rate
 - Measure the acidity or alkalinity of blood
 - Homeostatic mechanisms keep pH normal
 - Buffer systems, kidneys & lungs
 - Greater H⁺ concentration = lower pH & more acidic solute
 - Lower H⁺ concentration = higher pH & more alkaline solute
- Major ECF buffer system
 - Bicarbonate-carbonic acid system
 - $\text{CO}_2 + \text{H}_2\text{O} \leftrightarrow \text{H}_2\text{CO}_3 \leftrightarrow \text{H}^+ \text{ and } \text{HCO}_3^-$
 - Kidneys regulate bicarbonate in the ECF
 - Lungs (controlled by medulla) regulate CO₂, thus the carbonic acid in the ECF
 - Lungs are first responders
- Other buffer systems
 - ECF: inorganic phosphates and plasma proteins
 - ICF: proteins, organic, inorganic phosphates
 - Hemoglobin

METABOLIC ACIDOSIS

pH lower than 7.35

- Can occur by a gain of H⁺ or loss of bicarbonate ions (<22 mm Hg)
- Causes
 - Direct loss of bicarbonate (diarrhea, administration of IV nutrition w/o bicarb or bicarb-producing solutes, diuretic use, early renal insufficiency, excess chloride, lower intestinal fistulas, ureterostomies)
 - Most common due to kidney injury
 - Lactic acidosis (higher it is, the worse sepsis is), salicylate poisoning, renal failure, methanol, ethylene, or propylene toxicity, DKA, ketoacidosis due to starvation
 - Systemic issue: diabetes
- Clinical Manifestations
 - Headache, confusion, drowsiness, increased RR/depth, low BP, nausea, vomiting, cold/clammy skin, arrhythmias, shock, peripheral vasodilation, decreased cardiac output
- Medical Management
 - First have to correct underlying issue

Key Acid Base Study Guide

Minjie Lin



Key Acid Base Study Guide:

Whispering the Strategies of Language: An Mental Quest through **Key Acid Base Study Guide**

In a digitally-driven world wherever screens reign supreme and immediate communication drowns out the subtleties of language, the profound techniques and mental subtleties concealed within words usually go unheard. Yet, situated within the pages of **Key Acid Base Study Guide** a fascinating fictional prize blinking with fresh emotions, lies an exceptional journey waiting to be undertaken. Published by an experienced wordsmith, this marvelous opus attracts visitors on an introspective trip, delicately unraveling the veiled truths and profound impact resonating within the fabric of each and every word. Within the psychological depths with this poignant evaluation, we will embark upon a heartfelt exploration of the book is primary styles, dissect their fascinating writing type, and succumb to the strong resonance it evokes serious within the recesses of readers hearts.

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