

Nephrology Exam Study Guide

Acid-Base Disorders

- Definitions
 - pH
 - Measure of the acidity or alkalinity of a solution using $-\log[H^+]$
 - Normal physiologic pH: 7.35-7.45
 - Acid - Proton DONOR (ex. HCl, CO₂, lactic acid)
 - Base – Proton ACCEPTOR (ex. HCO₃⁻, Cl⁻)
 - Buffer
 - Ability of a weak acid + anion (base) conjugate pair to resist pH changes after the addition of a strong acid or base (Ex. Protein, hemoglobin, phosphates, carbonic acid and bicarbonate)
 - Most efficient at a pH close to their pK
 - Carbonic anhydrase
 - Enzyme that converts CO₂ into carbonic acid
 - Helps with buffer of carbonic acid
 - Therapeutic target
- Henderson-Hasselbach Equation
 - Explains the relationship between pH and relative concentrations of the acid and base
 - $CO_2(g) + H_2O \leftrightarrow H_2CO_3(aq) \leftrightarrow H^+(aq) + HCO_3^-(aq)$
- Physiology
 - Regulation of physiologic pH
 - Buffers (HCO₃⁻ and CO₂)
 - Immediate effects; short duration
 - Has ability to resist pH changes after addition of strong acid or base
 - Respiratory compensation
 - Rapid effects
 - Regulated by brain chemoreceptors – alter minute ventilation and CO₂ excretion
 - Metabolic compensation
 - All about kidneys
 - Delayed effects (6-12 hour onset; full effects realized by 48h)
 - Alter reabsorption of HCO₃⁻
 - Significance of pH
 - Directly impacts
 - Protein function
 - Tissue and organ function
 - Cellular respiration, Hgb-O₂ binding affinity
 - Normal ~ 7.4 (7.35-7.45)
 - Dead = ≤ 6.7 or ≥ 7.7
 - Bicarb is freely filtered in glomerulus, acts as a buffer as bicarb and H⁺ ion → carbonic acid → carbonic anhydrase goes back and forth between water and CO₂ → gets transported into proximal tubule cell and CO₂ and water → split into bicarb and H⁺ ion → transported out of cell by sodium transporter
 - Acid-base disorder
 - “-emia” objective sign in the blood
 - Refers to abnormal pH being too high or too low

Nephrology Study Guide

Norma Gomez



Nephrology Study Guide:

Absolute Nephrology Review Alluru S. Reddi, 2022-01-27 Written in a succinct question and answer format this comprehensive book is a resource on all areas of nephrology and common clinical scenarios The updated volume covers the basic physiology of fluids electrolytes and acid base problems renal disorders and management chronic kidney disease hypertension and other essential subjects The nearly 1000 detailed questions and answers prepare readers for nephrology and internal medicine boards and provide a better understanding of nephrology as a whole This new edition of *Absolute Nephrology Review* features the latest evidence and guidelines needed by nephrology fellows practicing nephrologists and clinicians

Nephrology Surjit Tarafdar, 2020-01-31 Lecture Notes Nephrology is a concise introduction to the fundamental principles of nephrology An ideal study guide for medical trainees this accessible resource combines the depth of a textbook with the accessibility of a handbook Succinct chapters describe the clinical implications of renal physiology examine major renal disorders and diseases and explain a wide range of management and treatment options A new addition to the popular Lecture Notes series this handbook provides trainees in nephrology with core subject knowledge and enables medical students to gain a more comprehensive understanding of this complex specialty Offers clear easy to understand coverage of all relevant nephrology topics Includes MCQs and discussion around the answers ideal for those preparing for written Internal Medicine examinations including the certification examination of the American Board of Internal Medicine the UK based MRCP and the Australia and New Zealand based FRACP examinations Features chapter summaries and numerous infographics tables and figures Emphasises core management skills needed by medical students and junior doctors Is presented in the consistent and well recognised Lecture Notes format

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