

## ACID & BASE

- Provide optimal cell function
  - Cells secrete **acid** and **bases** to maintain proper pH for enzymes to work.
- They both provide homeostatic regulation of pH of the body's ECF (extracellular fluid)
  - The Carbonic Acid-Bicarb Buffer System = pH homeostasis of blood

### ACID

CO<sub>2</sub> is regulated by the lungs + contributes to acid

- found in the stomach + urine + kidneys \*
  - ex: acid reflux, BPH, kidney failure

### BASE

Bicarb HCO<sub>3</sub> = form of carbon dioxide in our blood

- found in intestines \*
  - Regulated, excreted + reabsorbed in kidneys \*
  - Ex: C-diff → bacteria in colon

## 2 FUNCTIONS

Metabolic + Respiratory

### METABOLIC

primary change is the **concentration of bicarbonate.**

#### METABOLIC ACIDOSIS

bicarb ↓ r/t the amount of acid in the body

- Increased Hydrogen ions
  - CAUSES: kidney failure, DKA, lactic acidosis (shock/sepsis), severe diarrhea
  - put pt. on bicarb drip to increase levels
- Respiratory compensation
  - Increased RR to rid of acid

#### METABOLIC ALKALOSIS

excess bicarb r/t the amount of acid in the body

- Decreased Hydrogen ions
  - CAUSES: loss of gastric fluids, antacid overdose
  - ex: too much NGT suctioning, hypokalemia, vomiting

### RESPIRATORY

primary change is the **concentration of carbonic acid**

#### RESPIRATORY ACIDOSIS

CO<sub>2</sub> is retained + inadequate O<sub>2</sub> exchange → increases amount of carbonic acid in the body

- CAUSES: Hypoventilation
  - ex: Asthma, COPD, Pneumonia
- Decreased RR
  - Sleep apnea, drug overdose, head injuries

Compensation?

- Increasing RR

#### RESPIRATORY ALKALOSIS

Too much CO<sub>2</sub> is lost + carbonic acid levels fall

- Pt has increased RR
  - ex: hyperventilation due to anxiety attack

Compensation?

- slow + shallow breaths

# Acids Base Study Guide Content Mastery

**McGraw-Hill Staff**



## **Acids Base Study Guide Content Mastery:**

**Medical-Surgical Nursing - E-Book** Susan C. deWit, Candice K. Kumagai, 2012-02-24 UNIQUE Best Practices are highlighted to show the latest evidence based research related to interventions Online resources listed at the end of each chapter promote comprehensive patient care based on current national standards and evidence based practices UNIQUE Icons in page margins point to related animations video clips additional content and related resources on the Evolve site

**Gamify Your College Classroom** Sierra Adare-Tasiwoopa ápi, 2025-09-29 Gamify Your College Classroom is an instructor playbook for nurturing life skills through the incorporation and customization of games and game elements into coursework Featuring a robust contributor team representing a range of institutions and disciplines this guide provides detailed case studies and strategies to promote critical thinking communication problem solving teamwork and even AI literacy In a world in which ChatGPT and other generative AI technologies tempt students to take a passive route the approaches in this book are designed to foster strategic planners and open minded decision makers By allowing students to gain knowledge through their choices take responsibility for their learning and expand and enrich their perspectives on diversity and empathy this book equips college faculty and instructors with the tools they need to optimize real world skill building

**Medical-Surgical Nursing** Susan C. deWit, Candice K. Kumagai, 2013-05-28 Take your understanding to a whole new level with Pageburst digital books on VitalSource Easy to use interactive features let you make highlights share notes run instant topic searches and so much more Best of all with Pageburst you get flexible online offline and mobile access to all your digital books The clear concise and cutting edge medical surgical nursing content in Medical Surgical Nursing Concepts Practice 2nd Edition provides the solid foundation you need to pass the NCLEX Examination and succeed as a new nurse It builds on the fundamentals of nursing and covers roles settings health care trends all body systems and their disorders emergency and disaster management and mental health nursing Written by noted authors Susan deWit and Candice Kumagai Medical Surgical Nursing reflects current national LPN LVN standards with its emphasis on safety as well as complementary and alternative therapies UNIQUE LPN Threads share learning features with Elsevier's other LPN textbooks providing a consistency across the Elsevier LPN curriculum Key Terms include phonetic pronunciations and text page references Key Points are located at the end of chapters and summarize chapter highlights Overview of Anatomy and Physiology at the beginning of each body system chapter provides basic information for understanding the body system and its disorders Nursing Process provides a consistent framework for disorders chapters Evidence Based Practice is highlighted with special icons indicating current research Assignment Considerations boxes address situations in which the charge nurse delegates to the LPN LVN or the LPN LVN assigns tasks to unlicensed assistive personnel Focused Assessment boxes include information on history taking and psychosocial assessment physical assessment and guidance on how to collect data information for specific disorders Elder Care Points boxes address the unique medical surgical care issues that affect older adults Legal and

Ethical Considerations boxes focus on specific disorder related issues Safety Alert boxes highlight specific dangers to patients related to medications and clinical care Clinical Cues provide guidance and advice related to the application of nursing care Think Critically About boxes encourage you to synthesize information and apply concepts beyond the scope of the chapter Concept Maps in the disorders chapters help you visualize difficult material and illustrate how a disorder's multiple symptoms treatments and side effects relate to each other Health Promotion boxes address wellness and disease prevention including diet infection control and more Complementary and Alternative Therapies boxes offer information on how nontraditional treatments for medical surgical conditions may be used to complement traditional treatment Cultural Considerations promote understanding and sensitivity to various ethnic groups Nutrition Considerations address the need for holistic care and reflect the increased focus on nutrition in the NCLEX Examination Patient Teaching boxes provide step by step instructions and guidelines for post hospital care Home Care Considerations boxes focus on post discharge adaptations of medical surgical nursing care to the home environment Mental Health Nursing unit includes information on disorders of anxiety and mood eating disorders cognitive disorders thought and personality disorders and substance abuse Disaster Management content includes material focusing on preparation and mitigation to avoid losses and reduce the risk of injury associated with both natural and bioterrorist disasters Nursing Care Plans with Critical Thinking Questions show how a care plan is developed and how to evaluate care of a patient Review questions for the NCLEX PN Examination at the end of each chapter include alternate item format questions and help prepare you for class tests and the NCLEX exam Critical Thinking Activities at the end of chapters include clinical situations and relevant questions allowing you to hone your critical thinking skills UNIQUE Best Practices are highlighted to show the latest evidence based research related to interventions Online resources listed at the end of each chapter promote comprehensive patient care based on current national standards and evidence based practices UNIQUE Icons in page margins point to related animations video clips additional content and related resources on the Evolve site

**Resources in Education** ,1997      Foundations and Adult Health Nursing - E-Book  
Kim Cooper,Kelly Gosnell,2014-10-01 An all inclusive guide to fundamentals and medical surgical nursing for the LPN LVN Foundations and Adult Health Nursing 7th Edition covers the skills you need for clinical practice from anatomy and physiology to nursing interventions and maternity neonatal pediatric geriatric mental health and community health care Guidelines for patient care are presented within the framework of the five step nursing process Nursing Care Plans are described within a case study format to help you develop skills in clinical decision making Written by Kim Cooper and Kelly Gosnell this text includes all of the content from their Foundations of Nursing and Adult Health Nursing books including review questions to help you prepare for the NCLEX PN examination Full color step by step instructions for over 100 skills show nursing techniques and procedures along with rationales for each The 5 step Nursing Process connects specific disorders to patient care with a summary at the end of each chapter Nursing Care Plans emphasize patient goals and

outcomes within a case study format and promotes clinical decision making with critical thinking questions at the end of each care plan. Clear coverage of essential A P is provided by an Introduction to Anatomy and Physiology chapter along with an overview of A P in all body systems chapters. Student friendly features enhance the learning of nursing skills with summary boxes for Patient Teaching Health Promotion Considerations Complementary and Alternative Therapy Cultural Considerations Older Adult Considerations Home Care Considerations Safety Alert and Prioritization Assignment and Supervision. UNIQUE Mathematics review in Dosage Calculation and Medication Administration chapter covers basic arithmetic skills prior to the discussion of medication administration. A focus on preparing for the NCLEX examination includes review questions and Get Ready for the NCLEX Examination sections with key points organized by NCLEX Client Needs Categories. Evidence Based Practice boxes provide synopses of nursing research articles and other scientific articles applicable to nursing along with nursing implications for the LPN LVN. Nursing Diagnosis boxes summarize nursing diagnoses for specific disorders along with the appropriate nursing interventions. UNIQUE Delegation Considerations boxes provide parameters for delegation to nurse assistants patient care technicians and unlicensed assistive personnel. Medication Therapy tables provide quick access to actions dosages precautions and nursing considerations for commonly used drugs. NEW Reorganized chapters make it easier to follow and understand the material. NEW Icons in page margins indicate videos audios and animations on the Evolve companion website that may be accessed for enhanced learning. UPDATED illustrations include photographs of common nursing skills.

*Introduction to Medical-Surgical Nursing - E-Book* Adrienne Dill Linton, 2014-04-14

With just the right level of information to equip you to effectively care for adults and older adults, Linton's *Introduction to Medical Surgical Nursing* 5th Edition is the leading LPN LVN text in its field. Covering both med surg and psychiatric mental health conditions and disorders, it addresses your role in a variety of care settings, emphasizes culturally competent care and holistic nursing, and thoroughly covers all relevant NCLEX PN Test Plan content. Abundant real life case studies clearly show how to apply what you've learned to clinical practice. Features separate chapters on common high profile disorders including hypertension diabetes and shock, providing an in depth understanding for patient care. Offers foundational units on basic concepts related to the health care system, care settings, the nursing process, leadership, nutrition, the older adult, growth and nutrition, legal ethical considerations, evidence based nursing care, and many more essential topics, avoiding repetition later in the text. Includes a separate comprehensive unit on the older adult and related disorders, no other LPN LVN med surg text has as much coverage of this primary patient group. Includes a separate comprehensive unit on psychosocial responses to illness, psychiatric disorders, and substance abuse, eliminating the need for a separate psychiatric mental health nursing text. Emphasizes content related to the NCLEX PN Test Plan, including health promotion, nutrition, legal ethical issues, HIPAA, and prevention of medication medical errors. Offers in depth pharmacology coverage; the Pharmacology Tutorial covers drug classifications, how drugs work, and nursing responsibilities. Pharmacology Capsules boxes provide

medication information precautions for use interactions and side adverse effects and Pharmacology and Medications tables in body systems chapters include classification use action side adverse effects and nursing interventions all with the goal of reducing medication errors on the job and equipping you to pass the NCLEX exam Assists with assignment and supervision helping you assign tasks to nurse assistants patient care techs and unlicensed assistive personnel and making sure you understand the difference between delegation management supervision and assignment of tasks on the health care team Features Diagnostic Tests and Procedures tables for a quick reference to MRI CT Doppler flow lumbar puncture tests for neurologic disorders and much more Highlights timely information with Health Promotion boxes Cultural Considerations boxes Nutrition Considerations boxes and Complementary and Alternative Therapies boxes Provides bulleted lists of nursing instructions for Patient Teaching Plans stressing the role and responsibility of the LPN LVN to reinforce patient education Provides consistent Nursing Care Plans that reinforce the nursing process and focus on critical thinking and Put on Your Thinking Cap Critical Thinking boxes encourage you to pause and consider the practical implications of what you have just read

**Medical-Surgical Nursing E-Book** Adrienne Dill Linton, Mary Ann Matteson, 2022-05-01 Provide quality nursing care for adults with medical surgical and psychiatric disorders Building upon the fundamentals of nursing Medical Surgical Nursing 8th Edition helps you master the role and responsibilities of the LPN LVN in medical surgical care The text addresses the special problems of older adult patients then covers each major disorder by body system presenting patient problems goals outcome criteria and nursing interventions As LPN LVNs do not formulate NANDA diagnoses the book is organized by patient problems rather than NANDA nursing diagnoses Written by noted educators Adrienne Dill Linton and Mary Ann Matteson this text helps you build the clinical judgment skills you need to succeed on the Next Generation NCLEX PN examination and in nursing practice

Foundations and Adult Health Nursing Kim Cooper, RN, MSN, Kelly Gosnell, RN, MSN, 2014-08-25 An all inclusive guide to fundamentals and medical surgical nursing for the LPN LVN Foundations and Adult Health Nursing 7th Edition covers the skills you need for clinical practice from anatomy and physiology to nursing interventions and maternity neonatal pediatric geriatric mental health and community health care Guidelines for patient care are presented within the framework of the five step nursing process Nursing Care Plans are described within a case study format to help you develop skills in clinical decision making Written by Kim Cooper and Kelly Gosnell this text includes all of the content from their Foundations of Nursing and Adult Health Nursing books including review questions to help you prepare for the NCLEX PN examination Full color step by step instructions for over 100 skills show nursing techniques and procedures along with rationales for each The 5 step Nursing Process connects specific disorders to patient care with a summary at the end of each chapter Nursing Care Plans emphasize patient goals and outcomes within a case study format and promotes clinical decision making with critical thinking questions at the end of each care plan Clear coverage of essential A P is provided by an Introduction to Anatomy and Physiology chapter along with an overview of A P in all body

systems chapters Student friendly features enhance the learning of nursing skills with summary boxes for Patient Teaching Health Promotion Considerations Complementary and Alternative Therapy Cultural Considerations Older Adult Considerations Home Care Considerations Safety Alert and Prioritization Assignment and Supervision UNIQUE Mathematics review in Dosage Calculation and Medication Administration chapter covers basic arithmetic skills prior to the discussion of medication administration A focus on preparing for the NCLEX examination includes review questions and Get Ready for the NCLEX Examination sections with key points organized by NCLEX Client Needs Categories Evidence Based Practice boxes provide synopses of nursing research articles and other scientific articles applicable to nursing along with nursing implications for the LPN LVN Nursing Diagnosis boxes summarize nursing diagnoses for specific disorders along with the appropriate nursing interventions UNIQUE Delegation Considerations boxes provide parameters for delegation to nurse assistants patient care technicians and unlicensed assistive personnel Medication Therapy tables provide quick access to actions dosages precautions and nursing considerations for commonly used drugs NEW Reorganized chapters make it easier to follow and understand the material NEW Icons in page margins indicate videos audios and animations on the Evolve companion website that may be accessed for enhanced learning UPDATED illustrations include photographs of common nursing skills

Resources in Education ,1996      *Glencoe Science: Human body systems* ,2002      **Insider's Guide to the USMLE Step 2** John M. Stang,1998 An integrated program of review exercises provides the most thorough in depth USMLE Step 2 preparation available today Case scenarios study guide sections pop quizzes and a comprehensive practice test promote effective recall for every clinical specialty tested on the exam      *Chemistry* John S. Phillips,Cheryl Wistrom,2000

**Glencoe Health** Mary Bronson Merki,Don Merki,2001      Glencoe Earth Science Ralph M. Feather,1999 Earth science is the study of Earth and space It is the study of such things as the transfer of energy in Earth s atmosphere the evolution of landforms patterns of change that cause weather the scale and structure of stars and the interactions that occur among the water atmosphere and land Earth science in this book is divided into four specific areas of study geology meteorology astronomy and oceanography p 8 9      *Master's Theses in Science*, 1952 Barton Bledsoe,1954      **Abstracts of Theses Presented by Candidates for the Master's Degree** ,1954      **Glencoe Science** McGraw-Hill Staff,2001-06      Merrill Earth Science Ralph M. Feather,Susan Leach Snyder,Dale T. Hesser,1995      Abstracts of Theses Presented by Candidates for the Master's Degree ... Ohio State University,1954      **The National Guide to Educational Credit for Training Programs** American Council on Education,2005 Highlights over 6 000 educational programs offered by business labor unions schools training suppliers professional and voluntary associations and government agencies

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web iso 22001 is a complete food safety management system which has been designed for any organisation in the food chain from the growing to the service of produce the standard allows an organisation to develop a food safety management system tailored to its particular suppliers customers and relevant parties and does not follow an exhaustive and

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web this document specifies requirements for a food safety management system fsms to enable an organization that is directly or indirectly involved in the food chain a to plan implement operate maintain and update a fsms providing products and services that are safe in accordance with their intended use b to demonstrate compliance with

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