

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

CO₂ is regulated by the lungs + contributes to acid

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

BASE

Bicarb HCO₃ = 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

CO₂ is retained + inadequate O₂ 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 CO₂ is lost + carbonic acid levels fall

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

Compensation?

- slow + shallow breaths

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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

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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

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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

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Introduction to Medical-Surgical Nursing - E-Book Adrianne 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** Adrianne 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 Adrianne 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

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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**

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