

## 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

**J Elliott**

## Acids Base Study Guide Content Mastery:

**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. [Resources in Education](#), 1997 [Introduction to Medical-Surgical Nursing](#) Adrianne Dill Linton, PhD, RN, FAAN, 2015-02-06 The leading medical surgical text for LPN LVN students Linton's *Introduction to Medical Surgical Nursing* 6th Edition offers just the right level of information to equip today's students to effectively care for adults and older adults. Covering both medical surgical and psychiatric mental health conditions and disorders this comprehensive text addresses the LPN LVN's role in a variety of care settings including acute care and long term care with a special emphasis on assignment and supervision responsibilities. It also emphasizes culturally competent care and holistic nursing while thoroughly covering all relevant NCLEX PN test plan content. No other resource offers the breadth of topics at a level that is so perfectly tailored to the LPN LVN student. 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 avoid repetition later in the text and create a foundation to build your understanding of disorders by body system. Safety alerts are highlighted throughout the text with a Safety Considerations icon. A separate unit on psychiatric mental health nursing covers psychosocial responses to illness psychiatric disorders and substance abuse eliminating the need for a separate psychiatric mental health nursing text. Content related to the NCLEX PN test plan is emphasized throughout the text including health promotion nutrition legal ethical issues HIPAA and prevention of medication medical errors. Separate chapters on common high profile disorders including hypertension diabetes and shock provide an in depth understanding for patient care. Focus on assignment and supervision helps you assign tasks to nurse assistants patient care techs and unlicensed assistive personnel and makes sure they understand the difference between delegation management supervision and assignment of tasks on the health care team. UNIQUE In depth pharmacology coverage includes the Pharmacology Tutorial covering drug classifications how drugs work and nursing responsibilities. Pharmacology Capsules boxes providing medication information precautions for use interactions and side adverse effects and Pharmacology and Medications tables including classification use action side adverse effects and nursing interventions. A separate unit on

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