

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 HCO_3 = 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

Acid And Base Study Guide

Leo J. Malone

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High-yield General Chemistry Stephen D. Bresnick, 1996. A study guide in question and answer format for basic chemistry.

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