

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

Acid And Bases Study Guide Chap 15

Pamela Mills,Amina El-Ashmawy

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