

Study Guide

EXAM 1

ACID-BASE DISTURBANCES

1. Explain the roles of the lungs, kidneys, and chemical buffers in maintaining acid-base balance.
 - a. **Buffers:** fastest acting, and primary regulator
 - i. Change strong acids into weaker or to bind acids to neutralize the effect
 - b. **Renal system:** takes 2-3 days to respond
 - i. To compensate for acidosis the kidneys can generate and additional bicarb and eliminate excess H^+
 - c. **Respiratory system:** responds in minutes, reaches max in hours
 - i. CO_2 is formed and excreted by the lungs.
 1. Retention of CO_2 = hypoventilation to "blow off" eO_2
 2. If low CO_2 = hyperventilation to retain
 - d. **Acidosis:** caused by an increase in carbonic acid (respiratory acidosis) or decrease in bicarb (metabolic acidosis)
 - e. **Alkalosis:** caused by decrease in carbonic acid (respiratory alkalosis) or increase in bicarb (metabolic alkalosis)
2. Compare respiratory and metabolic acidosis and alkalosis with regard to causes, clinical manifestations, diagnosis, and management.
 - a. **Metabolic Acidosis** → acid accumulation or bicarb lost
 - i. renal failure, sepsis, hypoxia, DKA, severe diarrhea.
 - ii. **Manifestations:** headache, confusion, drowsiness, increases resp rate (compensatory to blow off CO_2) hypotension, electrolyte imbalance, dysrhythmia (**hyperkalemia** → K^+ move out of cell to, hypocalcemia)
 - iii. **Treatment:** Sodium bicarb
 - b. **Metabolic alkalosis:** → excess of bicarbonate
 - i. Loss of acid; prolonged vomiting, gastric suctioning, baking soda ingestion
 - ii. **Manifestations:** respiratory depression (to retain CO_2), tachycardia, symptoms of hypokalemia
 - iii. **Treatment:** restore fluid volume with sodium chloride, restore K^+
 1. Diamox (acetazolamide) given to assist in the excretion of bicarb
 - c. **Respiratory Acidosis** → carbonic acid excess.
 - i. Hypoventilation
 - ii. **Manifestation:** may be asymptomatic or sudden increase in pulse, resp rate and BP, mental changes, feeling of fullness in head. CO_2 concentration = vessel dilation = headache
 - iii. **Treatment:** improve ventilation, increase HCO_3^- , mechanical ventilation.
 1. Renal compensatory mechanism conserve bicarb and secrete H^+ into urine
 - d. **Respiratory Alkalosis:**
 - i. Hyperventilation, anxiety, hypoxemia from acute pulmonary problems, CNS disorders
 - ii. **Manifestations:** lightheadedness, inability to concentrate, numbness and tingling, and sometimes loss of consciousness.
 - iii. **Treatment:** correct cause of hyperventilation, renal excretion of bicarb.
3. Interpret arterial blood gas measurements.
 - a. pH → 7.35 (7.4) 7.45
 - b. $PaCO_2$ → 35 (40) 45
 - c. HCO_3^- → 22 (24) 26
 - d. PaO_2 → 80-100

Respiratory Opposite Metabolic Equal

AIRWAY ADJUNCTS/TRACH CARE/SUCTIONING

1. Verbalize indications for using different advanced airways.
 - a. **Oropharyngeal**

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