Rebecca
Lane

N441 Week 5: ABG Practice Problems

1. **A patient in the CCU has an arterial blood gas showing a pH of 7.2, PaCO2 of 49, and HCO3 of 24. Which acid-base imbalance is this patient experiencing?**

pH → acid
PaCO2 → acid
HCO3 → norm

resp acidosis

2. **You are caring for a patient with an arterial blood gas showing a pH of 7.47, PaCO2 of 36, and HCO3 of 27. Which acid-base imbalance is this patient experiencing?**

pH → alk
CO2 → normal
HCO3 → alk

metabolic alkalosis

3. **A patient in the ED has an arterial blood gas showing a pH of 7.40, PaCO2 of 37, and HCO3 of 24. Which acid-base imbalance is this patient experiencing?**

pH → norm
CO2 → norm
HCO3 → norm

normal

4. **A patient in the ED has an arterial blood gas showing a pH of 7.22, PaCO2 of 37, and HCO3 of 21. Which acid-base imbalance is this patient experiencing?**

pH → acid
CO2 → norm
HCO3 → acid

metabolic acidosis

5. **A patient in the CCU has an arterial blood gas showing a pH of 7.5, PaCO2 of 33, and HCO3 of 25. Which acid-base imbalance is this patient experiencing?**

pH → alk
CO2 → alk
HCO3 → normal

resp alkalosis