

pH 7.35 - 7.45
 PaCO₂ 35 - 45 ↑ Acid.
 HCO₃ 22 - 26

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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	
CO ₂	HCO ₃

Respiratory Acidosis, Uncompensated.

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
PaCO ₂	HCO ₃

Metabolic Alkalosis, Uncompensated

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
	CO ₂
	HCO ₃

All lab values within normal range.

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	
HCO ₃	CO ₂

Metabolic Acidosis, Uncompensated

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
HCO ₃	CO ₂

Respiratory Alkalosis, Uncompensated