

A patient has the following results from arterial blood work: a PCO<sub>2</sub> of 50 mmHg, arterial blood pH of 7.3 and a HCO<sub>3</sub> level of 30 mEq/L. What is the most likely diagnosis?

- a. respiratory acidosis
- b. respiratory alkalosis
- c. metabolic acidosis
- d. metabolic alkalosis

A patient has the following results from arterial blood work: a PCO<sub>2</sub> of 48 mmHg, arterial blood pH of 7.5 and a HCO<sub>3</sub> level of 33 mEq/L. What is the most likely diagnosis?

- a. respiratory acidosis
- b. respiratory alkalosis
- c. metabolic acidosis
- d. metabolic alkalosis

Choose the diagnosis for the following:

pH	PCO <sub>2</sub> (mmHg)	HCO <sub>3</sub> (mEq/L)	Diagnosis: Acute or Chronic (compensated)?
7.2	65	27	
7.6	25	15	
7.15	22	15	
7.30	42	20	

A patient has the following blood work results:

Arterial pH: 7.25

PCO<sub>2</sub>: 35 mmHg

HCO<sub>3</sub><sup>-</sup>: 18 mEq/L

Anion Gap: 18 mmol/L

What is diagnosis and possible cause?