

ABG Chart

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Patient Information

Name:

Age:

Gender:

Date:

Referring Physician's Name and Signature

ABG Results

pH: (Normal Range: 7.35-7.45)

PaCO₂: mmHg (Normal Range: 35-45 mmHg)

PaO₂: mmHg (Normal Range: 80-100 mmHg)

HCO₃⁻: mEq/L (Normal Range: 22-26 mEq/L)

SaO₂: % (Normal Range: 95-99%)

Interpretation

Assess pH: Acidosis: pH < 7.35 Alkalosis: pH > 7.45

Assess PaCO₂ and HCO₃⁻: Respiratory Acidosis: ↓pH, ↑PaCO₂, Normal HCO₃⁻ Respiratory Alkalosis: ↑pH, ↓PaCO₂, Normal HCO₃⁻ Metabolic Acidosis: ↓pH, Normal PaCO₂, ↓HCO₃⁻ Metabolic Alkalosis: ↑pH, Normal PaCO₂, ↑HCO₃⁻

Evaluate Compensation: Partially Compensated: All three values (pH, PaCO₂, HCO₃⁻) are abnormal
Fully Compensated: Normal pH with abnormal PaCO₂ and HCO₃⁻

Assess Oxygenation: Hypoxemia: PaO₂ < 80 mmHg Normoxemia: PaO₂ between 80-100 mmHg
Hyperoxemia: PaO₂ > 100 mmHg

Assess Ventilation: Hypoventilation: ↑PaCO₂ Normal Ventilation: PaCO₂ within normal range
Hyperventilation: ↓PaCO₂

Interpretation Summary:

Notes:
