

Instructional Module 7: ABG Practice 1

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pH: 7.35-7.45
CO₂: 35-45
HCO₃: 22-26

Normal
80-100
Mild
70-80
Moderate
60-70
Severe
59
below

1	2	3
pH 7.38 N ↓	pH 7.60 ↑	pH 7.37 N ↓ alk
PaCO ₂ 30mmHg N	PaCO ₂ 25mmHg ↓	PaCO ₂ 59 mmHg ↑
HCO ₃ 10mEq/L ↓	HCO ₃ 24mEq/L N	HCO ₃ 34mEq/L ↑
pO ₂ 60	pO ₂ 72	pO ₂ 82 Normal
Interpretation:	Interpretation:	Interpretation:
Fully compensated metabolic acidosis Moderate hypoxemia	uncompensated Respiratory alkalosis mild hypoxemia	Fully compensated Respiratory alkalosis Normal oxygenation

4	5	6
pH 7.56 ↑ alk	pH 7.34 ↓ acid	pH 7.15 ↓ acid
PaCO ₂ 40mmHg N	PaCO ₂ 50mmHg ↑	PaCO ₂ 49 mmHg ↑
HCO ₃ 38mEq/L ↑	HCO ₃ 31mEq/L ↑	HCO ₃ 25mEq/L N
pO ₂ 59	pO ₂ 65	pO ₂ 74
Interpretation:	Interpretation:	Interpretation:
uncompensated metabolic alkalosis Severe hypoxemia	Partially compensated Respiratory acidosis moderate hypoxemia	uncompensated Respiratory acidosis mild hypoxemia

7	8	9
pH 7.20 ↓ acid	pH 7.54 ↑ alk	pH 7.42 N ↑
PaCO ₂ 30 mmHg ↓	PaCO ₂ 44mmHg N	PaCO ₂ 38mmHg N
HCO ₃ 18mEq/L ↓	HCO ₃ 36mEq/L ↑	HCO ₃ 25.3mEq/L N
pO ₂ 55	pO ₂ 64	pO ₂ 92
Interpretation:	Interpretation:	Interpretation:
Partially compensated metabolic acidosis Severe hypoxemia	uncompensated metabolic alkalosis moderate hypoxemia	Normal ABG Normal ranges Normal oxygenation

10	11	12
pH 7.31 ↓ acid	pH 7.27 ↓ acid	pH 7.55 ↑
PaCO ₂ 33mmHg ↓	PaCO ₂ 35mmHg N	PaCO ₂ 34mmHg ↓
HCO ₃ 16mEq/L ↓	HCO ₃ 10mEq/L ↓	HCO ₃ 16.8mEq/L ↓
pO ₂ 68	pO ₂ 78	pO ₂ 91
Interpretation:	Interpretation:	Interpretation:
Partial compensated metabolic acidosis Moderate hypoxemia	uncompensated metabolic acidosis mild hypoxemia	Partial compensation Respiratory alkalosis Normal oxygenation