

Instructional Module 7: ABG Practice 1

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1	2	3
pH 7.38 ↓ N	pH 7.60 ↑	pH 7.37 ↓ N
PaCO ₂ 30mmHg ↓	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
Interpretation:	Interpretation:	Interpretation:
Fully compensated metabolic acidosis moderate hypoxemia	Uncompensated Respiratory alkalosis Mild hypoxemia	Fully compensated Respiratory Acidosis NO hypoxemia

4	5	6
pH 7.56 ↑	pH 7.34 ↓	pH 7.15 ↓
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 ↓	pH 7.54 ↑	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:
Partial compensated Metabolic acidosis Severe hypoxemia	Uncompensated Metabolic acidosis Moderate hypoxemia	NORMAL ABG NO hypoxemia

10	11	12
pH 7.31 ↓	pH 7.27 ↓	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:
Partially compensated Metabolic acidosis Moderate hypoxemia	Uncompensated Metabolic acidosis Mild hypoxemia	Partially compensated Respiratory alkalosis NO hypoxemia