

Instructional Module 7: ABG Practice 1

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1	2	3
pH 7.38 A ↓	pH 7.60 Alk ↑	pH 7.37 A ↓
PaCO2 30mmHg A ↓	PaCO2 25mmHg A ↓	PaCO2 59 mmHg Alk ↑
HCO3 10mEq/L A ↓	HCO3 24mEq/L N	HCO3 34mEq/L Alk ↑
pO2 60 Moderate	pO2 72 Mild	pO2 82 Normal
Interpretation:	Interpretation:	Interpretation:
Metabolic Acidosis	Respiratory Alkalosis	Respiratory Acidosis
Fully Compensated	Uncompensated	Fully Compensated
Moderate Hypoxemia	Mild Hypoxia	Normal Oxygenation

4	5	6
pH 7.56 ↑	pH 7.34 ↓	pH 7.15 ↓
PaCO2 40mmHg N	PaCO2 50mmHg ↑	PaCO2 49 mmHg ↑
HCO3 38mEq/L ↑	HCO3 31mEq/L ↑	HCO3 25mEq/L N
pO2 59 Severe	pO2 65 Moderate	pO2 74 Mild
Interpretation:	Interpretation:	Interpretation:
Metabolic Alkalosis	Respiratory Acidosis	Respiratory Acidosis
Uncompensated	Partially Compensated	Uncompensated
Severe Hypoxia	Moderate Hypoxia	Mild Hypoxia

7	8	9
pH 7.20 ↓	pH 7.54 ↑	pH 7.42 N ↑
PaCO2 30 mmHg ↓	PaCO2 44mmHg N	PaCO2 38mmHg N
HCO3 18mEq/L ↓	HCO3 36mEq/L ↑	HCO3 25.3mEq/L N
pO2 55 Severe	pO2 64 Moderate	pO2 92
Interpretation:	Interpretation:	Interpretation:
Metabolic Acidosis	Metabolic Alkalosis	Normal ABG
Partially Compensated	Uncompensated	Normal
Severe Hypoxia	Moderate Hypoxia	Normal Oxygenation

10	11	12
pH 7.31 ↓	pH 7.27 ↓	pH 7.55 ↑
PaCO2 33mmHg ↓	PaCO2 35mmHg N	PaCO2 34mmHg ↓
HCO3 16mEq/L ↓	HCO3 10mEq/L ↓	HCO3 16.8mEq/L ↓
pO2 68 Moderate	pO2 78 Mild	pO2 91 Normal
Interpretation:	Interpretation:	Interpretation:
Metabolic Acidosis	Metabolic Acidosis	Respiratory Alkalosis
Partially Compensated	Uncompensated	Partially Compensated
Moderate Hypoxia	Mild Hypoxia	Normal Oxygenation