

Instructional Module 7: ABG Practice 1

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1	2	3
pH 7.38 N ↓	pH 7.60 ↑	pH 7.37 N ↓
PaCO2 30mmHg ↓	PaCO2 25mmHg ↓	PaCO2 59 mmHg ↑
HCO3 10mEq/L ↓	HCO3 24mEq/L N	HCO3 34mEq/L ↑
pO2 60	pO2 72	pO2 82
Interpretation:	Interpretation:	Interpretation:
Metabolic Acidosis	Respiratory Alkalosis	Respiratory Acidosis
Fully compensated	No compensation	Full compensation
Mod. Hypoxemia	Mild hypoxemia	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	pO2 65	pO2 74
Interpretation:	Interpretation:	Interpretation:
Metabolic Alkalosis	Respiratory Acidosis	Respiratory Acidosis
No compensation	Partial Compensation	No compensation
Severe hypoxemia	Moderate hypoxemia	Mild hypoxemia

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	pO2 64	pO2 92
Interpretation:	Interpretation:	Interpretation:
Metabolic Acidosis	Metabolic Alkalosis	Normal ABG
Partial Compensation	NO Compensation	
Severe hypoxemia	Moderate hypoxemia	

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	pO2 78	pO2 91
Interpretation:	Interpretation:	Interpretation:
Metabolic Acidosis	Metabolic Acidosis	Respiratory Alkalosis
Partial Compensation	No compensation	Partial compensation
Moderate hypoxemia	Mild hypoxemia	Normal Oxygenation