

Instructional Module 7: ABG Practice 1

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	1	2	3
pH	7.38 ↓ Acid	pH 7.60 ↑ Alk	pH 7.37 N ↓ Acid
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:	
Metabolic Acidosis	Respiratory Alkalosis	Respiratory Acidosis	
Fully comp	Uncompensated	Fully compensated	
Moderate hypoxemia	Mild Hypoxemia	Normal oxygenation	

	4	5	6
pH	7.56 ↑	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 Moderate	pO ₂ 74
Interpretation:	Interpretation:	Interpretation:	
Uncompensated	Respiratory Acidosis	Uncompensated	
Metabolic alkalosis	Partial compensation	Respiratory Acidosis	
Severe hypoxemia	Moderate hypoxemia	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:	
Partial compensation	Uncompensated	Normal ABG	
Metabolic Acidosis	Metabolic Alkalosis		
Severe hypoxemia	Moderate hypoxemia		

	10	11	12
pH	7.31 ↓ Acid	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:	
Partial compensation	Metabolic Acidosis	Respiratory Alkalosis	
Metabolic Acidosis	Uncompensated	Partial compensation	
Moderate hypoxemia	Mild hypoxemia	Normal oxygenation	

pH
7.35-7.45

CO₂
35-45

HCO₃
22-26