

Instructional Module 7: ABG Practice 1

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1		2		3	
pH	7.38	pH	7.60	pH	7.37
PaCO ₂	30mmHg	PaCO ₂	25mmHg	PaCO ₂	59 mmHg
HCO ₃	10mEq/L	HCO ₃	24mEq/L	HCO ₃	34mEq/L
pO ₂	60	pO ₂	72	pO ₂	82
Interpretation:		Interpretation:		Interpretation:	
Metabolic acidosis		Respiratory alkalosis		Respiratory acidosis	
Full compensation		No compensation		Full compensation	
Moderate hypoxemia		Mild hypoxemia		Normal oxygenation	

4		5		6	
pH	7.56	pH	7.34	pH	7.15
PaCO ₂	40mmHg	PaCO ₂	50mmHg	PaCO ₂	49 mmHg
HCO ₃	38mEq/L	HCO ₃	31mEq/L	HCO ₃	25mEq/L
pO ₂	59	pO ₂	65	pO ₂	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
PaCO ₂	30 mmHg	PaCO ₂	44mmHg	PaCO ₂	38mmHg
HCO ₃	18mEq/L	HCO ₃	36mEq/L	HCO ₃	25.3mEq/L
pO ₂	55	pO ₂	64	pO ₂	92
Interpretation:		Interpretation:		Interpretation:	
Metabolic acidosis		Metabolic alkalosis		Normal ABG	
Partial compensation		No compensation		Normal oxygenation	
Severe hypoxemia		Moderate hypoxemia			

10		11		12	
pH	7.31	pH	7.27	pH	7.55
PaCO ₂	33mmHg	PaCO ₂	35mmHg	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:	
Metabolic acidosis		Metabolic acidosis		Respiratory alkalosis	
Partial compensation		No compensation		Partial compensation	
Moderate hypoxemia		Mild hypoxemia		Normal oxygenation	