

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 Moderate	pO ₂	72 Mild	pO ₂	82 Normal
Interpretation:		Interpretation:		Interpretation:	
Metabolic acidosis		Respiratory alkalosis		Respiratory acidosis	
Full compensation		No compensation		Full compensation	
Moderate hypoxemia		Mild hypoxemia		Normal	

4		5		6	
pH	7.56 ↑	pH	7.34 N↓	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 Severe	pO ₂	65 Moderate	pO ₂	74
Interpretation:		Interpretation:		Interpretation:	
Metabolic alkalosis		Respiratory acidosis		Respiratory acidosis	
No compensation		Full compensation		No Compensation	
Severe hypoxemia		Moderate hypoxemia		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:	
Metabolic acidosis		Metabolic alkalosis		Normal	
Partial compensation		No compensation			
Severe hypoxemia		Moderate 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:	
Metabolic acidosis		Metabolic acidosis		Respiratory alkalosis	
Partial compensation		No compensation		Partial compensation	
Moderate hypoxemia		Mild hypoxemia		Normal	