

## Instructional Module 7: ABG Practice 1

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1		2		3	
pH	7.38 ↓	pH	7.60 ↑	pH	7.37 ↓
PaCO <sub>2</sub>	30mmHg ↓	PaCO <sub>2</sub>	25mmHg ↓	PaCO <sub>2</sub>	59 mmHg ↑
HCO <sub>3</sub>	10mEq/L ↓	HCO <sub>3</sub>	24mEq/L N	HCO <sub>3</sub>	34mEq/L ↑
pO <sub>2</sub>	60	pO <sub>2</sub>	72	pO <sub>2</sub>	82
<b>Interpretation:</b>		<b>Interpretation:</b>		<b>Interpretation:</b>	
Metabolic Acidosis		Respiratory Alkalosis		Respiratory acidosis	
Fully comp		Uncomp		Fully comp	
Moderate hypoxemia		Mild hypoxemia		Normal O <sub>2</sub>	

4		5		6	
pH	7.56 ↑	pH	7.34 ↓	pH	7.15 ↓
PaCO <sub>2</sub>	40mmHg N	PaCO <sub>2</sub>	50mmHg ↑	PaCO <sub>2</sub>	49 mmHg ↑
HCO <sub>3</sub>	38mEq/L ↑	HCO <sub>3</sub>	31mEq/L ↑	HCO <sub>3</sub>	25mEq/L N
pO <sub>2</sub>	59	pO <sub>2</sub>	65	pO <sub>2</sub>	74
<b>Interpretation:</b>		<b>Interpretation:</b>		<b>Interpretation:</b>	
Metabolic alkalosis		Respiratory acidosis		Respiratory acidosis	
Uncompensated		Partial comp		Uncompensated	
Severe hypoxemia		Moderate hypoxemia		Mild hypoxemia	

7		8		9	
pH	7.20 ↓	pH	7.54 ↑	pH	7.42 N
PaCO <sub>2</sub>	30 mmHg ↓	PaCO <sub>2</sub>	44mmHg N	PaCO <sub>2</sub>	38mmHg N
HCO <sub>3</sub>	18mEq/L ↓	HCO <sub>3</sub>	36mEq/L ↑	HCO <sub>3</sub>	25.3mEq/L N
pO <sub>2</sub>	55	pO <sub>2</sub>	64	pO <sub>2</sub>	92 N
<b>Interpretation:</b>		<b>Interpretation:</b>		<b>Interpretation:</b>	
Metabolic acidosis		Metabolic alkalosis		Normal ABG	
Partial comp		Uncomp			
Severe hypoxemia		Moderate hypoxemia			

10		11		12	
pH	7.31 ↓	pH	7.27 ↓	pH	7.55 ↑
PaCO <sub>2</sub>	33mmHg ↓	PaCO <sub>2</sub>	35mmHg N	PaCO <sub>2</sub>	34mmHg ↓
HCO <sub>3</sub>	16mEq/L ↓	HCO <sub>3</sub>	10mEq/L ↓	HCO <sub>3</sub>	16.8mEq/L ↓
pO <sub>2</sub>	68	pO <sub>2</sub>	78	pO <sub>2</sub>	91
<b>Interpretation:</b>		<b>Interpretation:</b>		<b>Interpretation:</b>	
Metabolic acidosis		Metabolic acidosis		Respiratory alkalosis	
Partial comp		Uncomp		Partial comp	
Moderate hypoxemia		Mild hypoxemia		Normal O <sub>2</sub>	