

## 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	HCO <sub>3</sub> ↑ 34mEq/L
pO <sub>2</sub> 60 moder	pO <sub>2</sub> 72	pO <sub>2</sub> ✓ 82
<b>Interpretation:</b>	<b>Interpretation:</b>	<b>Interpretation:</b>
fully compensated metabolic acidosis w/ moderate hypoxia	uncompensated respiratory alkalosis w/ mild hypoxia	respiratory acidosis fully compensated w/ normal oxygenation

4	5	6
pH ↑ 7.56	pH ↓ 7.34	pH ↓ 7.15
PaCO <sub>2</sub> ↑ 40mmHg	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
pO <sub>2</sub> 59	pO <sub>2</sub> 65	pO <sub>2</sub> 74
<b>Interpretation:</b>	<b>Interpretation:</b>	<b>Interpretation:</b>
uncompensated metabolic alkalosis w/ severe hypoxia	partially compensated respiratory acidosis w/ moderate hypoxia	uncompensated respiratory acidosis w/ mild hypoxia

7	8	9
pH ↓ 7.20	pH ↑ 7.54	pH 7.42
PaCO <sub>2</sub> ↓ 30 mmHg	PaCO <sub>2</sub> 44mmHg	PaCO <sub>2</sub> 38mmHg
HCO <sub>3</sub> ↓ 18mEq/L	HCO <sub>3</sub> ↑ 36mEq/L	HCO <sub>3</sub> 25.3mEq/L
pO <sub>2</sub> 55	pO <sub>2</sub> 64	pO <sub>2</sub> 92
<b>Interpretation:</b>	<b>Interpretation:</b>	<b>Interpretation:</b>
partially compensated metabolic acidosis w/ severe hypoxia	uncompensated metabolic alkalosis w/ moderate hypoxia	normal ABG's w/ normal oxygenation

10	11	12
pH ↓ 7.31	pH ↓ 7.27	pH ↑ 7.55
PaCO <sub>2</sub> ↓ 33mmHg	PaCO <sub>2</sub> 35mmHg	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>
partially compensated metabolic acidosis w/ moderate hypoxia	uncompensated metabolic acidosis w/ mild hypoxia	partially compensated respiratory alkalosis w/ normal oxygenation