

## Instructional Module 7: ABG Practice 1

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1	2	3
pH 7.38 ↓ N	pH 7.60 ↑ alkalosis	pH 7.37 ↓ N acidosis
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 compensated	uncompensated	fully compensated
moderate hypoxemia	mild hypoxemia	Normal Oxygenation

4	5	6
pH 7.56 ↑ alkalosis	pH 7.34 ↓ acidosis	pH 7.15 ↓ acidosis
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	partially compensated	uncompensated
Severe hypoxemia	moderate hypoxemia	mild hypoxemia

7	8	9
pH 7.20 ↓	pH 7.54 ↑	pH 7.42 ↑ N alkalosis
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
partially compensated	uncompensated	Normal Oxygenation
severe hypoxemia	moderate hypoxemia	

10	11	12
pH 7.31 ↓ acidosis	pH 7.27 ↓ acidosis	pH 7.55 ↑ alkalosis
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 compensation	uncompensated	partially compensated
moderate hypoxemia	mild hypoxemia	normal oxygenation