

# Instructional Module 7: ABG Practice 1

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-100  
70-79  
60-69  
<60

PH 7.35-7.45    CO<sub>2</sub>: 35-45    HCO<sub>3</sub>: 22-26

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 mod	pO <sub>2</sub> 72 mild	pO <sub>2</sub> 82 norm
<b>Interpretation:</b>	<b>Interpretation:</b>	<b>Interpretation:</b>
Metabolic acidosis	respiratory Alkalosis	Respiratory acidosis
Fully compensated	uncompensated	Fully compensated
Moderate Hypoxia	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 ↑
pO <sub>2</sub> 59 severe	pO <sub>2</sub> 65 mod	pO <sub>2</sub> 74 mild
<b>Interpretation:</b>	<b>Interpretation:</b>	<b>Interpretation:</b>
Metabolic Alkalosis	Respiratory Acidosis	Respiratory Acidosis
Uncompensated	Partial compensation	uncompensated
Severe Hypoxemia	Moderate hypoxemia	Mild hypoxemia

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 Severe	pO <sub>2</sub> 64 mod	pO <sub>2</sub> 92 norm
<b>Interpretation:</b>	<b>Interpretation:</b>	<b>Interpretation:</b>
Metabolic acidosis	Metabolic alkabrosis	Normal ABG
Partial compensation	Uncompensated	
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 ↓	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 mod	pO <sub>2</sub> 78 mild	pO <sub>2</sub> 91 norm
<b>Interpretation:</b>	<b>Interpretation:</b>	<b>Interpretation:</b>
Metabolic acidosis	Metabolic acidosis	Respiratory Alkalosis
Partial compensation	Uncompensated	Partial compensation
Moderate hypoxemia	Mild hypoxemia	Normal O <sub>2</sub>