

## Instructional Module 7: ABG Practice 1

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7.40

= counselor

pH  
7.35-7.45

PaCO<sub>2</sub>  
35-45

HCO<sub>3</sub>  
22-26

1		2		3	
pH	7.38 ↓ acidosis	pH	7.60 ↑ alkalosis	pH	7.37 ↓ 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 < 60	pO <sub>2</sub>	72 70-79	pO <sub>2</sub>	82 80-100
<b>Interpretation:</b>		<b>Interpretation:</b>		<b>Interpretation:</b>	
metabolic acidosis		Respiratory alkalosis		respiratory acidosis	
full compensation		NO compensation		full compensation	
moderate hypoxemia		mild hypoxemia		normal oxygenation	

Normal  
80-100

mild  
70-79

moderate  
60-69

Severe  
< 60  
abnormal  
abnormal

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 < 60	pO <sub>2</sub>	65 60-69	pO <sub>2</sub>	74 70-79
<b>Interpretation:</b>		<b>Interpretation:</b>		<b>Interpretation:</b>	
metabolic alkalosis		respiratory acidosis		respiratory acidosis	
NO compensation		partial compensation		NO compensation	
Severe hypoxemia		moderate hypoxemia		mild hypoxemia	

7		8		9	
pH	7.20 ↓ acidosis	pH	7.54 ↑ alkalosis	pH	7.42
PaCO <sub>2</sub>	30 mmHg ↓	PaCO <sub>2</sub>	44mmHg N	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 < 60	pO <sub>2</sub>	64 60-69	pO <sub>2</sub>	92 80-100
<b>Interpretation:</b>		<b>Interpretation:</b>		<b>Interpretation:</b>	
metabolic acidosis		metabolic alkalosis		NORMAL ABG	
partial compensation		NO compensation			
Severe hypoxemia		moderate hypoxemia			

10		11		12	
pH	7.31 ↓ acidic	pH	7.27 ↓ acidic	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 60-69	pO <sub>2</sub>	78 70-79	pO <sub>2</sub>	91 80-100
<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 oxygenation	