

## Instructional Module 7: ABG Practice 1

Student Name: \_\_\_\_\_

Date: \_\_\_\_\_

A  
pH 7.35 7.45  
PaCO2 35 45  
HCO3 22 26  
M

1	2	3
pH 7.38	pH 7.60	pH 7.37
PaCO2 30mmHg	PaCO2 25mmHg	PaCO2 59 mmHg
HCO3 10mEq/L	HCO3 24mEq/L	HCO3 34mEq/L
pO2 60	pO2 72	pO2 82
<b>Interpretation:</b>	<b>Interpretation:</b>	<b>Interpretation:</b>
Metabolic Acidosis Fully compensated Moderate hypoxemia	No compensation Respiratory Alkalosis Mild hypoxemia	Fully compensated Respiratory Acidosis Normal oxygenation

Fully compensated  
partial compensation  
uncompensated

4	5	6
pH 7.56	pH 7.34	pH 7.15
PaCO2 40mmHg	PaCO2 50mmHg	PaCO2 49 mmHg
HCO3 38mEq/L	HCO3 31mEq/L	HCO3 25mEq/L
pO2 59	pO2 65	pO2 74
<b>Interpretation:</b>	<b>Interpretation:</b>	<b>Interpretation:</b>
Uncompensated Metabolic Alkalosis Severe hypoxemia	Partial compensation Respiratory Acidosis Moderate hypoxemia	Uncompensated Respiratory Acidosis Mild hypoxemia

7	8	9
pH 7.20	pH 7.54	pH 7.42
PaCO2 30 mmHg	PaCO2 44mmHg	PaCO2 38mmHg
HCO3 18mEq/L	HCO3 36mEq/L	HCO3 25.3mEq/L
pO2 55	pO2 64	pO2 92
<b>Interpretation:</b>	<b>Interpretation:</b>	<b>Interpretation:</b>
Partial compensation Metabolic Acidosis Severe hypoxemia	uncompensated Metabolic Alkalosis Moderate hypoxemia	Normal ABG! Normal oxygenation

10	11	12
pH 7.31	pH 7.27	pH 7.55
PaCO2 33mmHg	PaCO2 35mmHg	PaCO2 34mmHg
HCO3 16mEq/L	HCO3 10mEq/L	HCO3 16.8mEq/L
pO2 68	pO2 78	pO2 91
<b>Interpretation:</b>	<b>Interpretation:</b>	<b>Interpretation:</b>
Partial compensation Metabolic Acidosis Moderate hypoxemia	uncompensated Metabolic Acidosis Mild hypoxemia	Partial compensation Respiratory Alkalosis Normal oxygenation