

ABG Interpretation Practice Answer Key (12 items)

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	pO <sub>2</sub>	72	pO <sub>2</sub>	82
Fully compensated		Uncompensated		Fully compensated	
Metabolic acidosis		Respiratory alkalosis		Respiratory acidosis	
Moderate hypoxemia		Mild hypoxemia		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
Uncompensated		Partial compensation		Uncompensated	
Metabolic alkalosis		Respiratory Acidosis		Respiratory acidosis	
Severe hypoxemia		Moderate hypoxemia		Mild hypoxemia	

7		8		9	
pH	7.20	pH	7.54	pH	7.42
PaCO <sub>2</sub>	30mmHg	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
Partial compensation		Uncompensated		Normal ABG	
Metabolic acidosis		Metabolic alkalosis			
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	pO <sub>2</sub>	78	pO <sub>2</sub>	91
Partial compensation		Uncompensated		Partial compensation	
Metabolic acidosis		Metabolic acidosis		Respiratory alkalosis	
Moderate hypoxemia		Mild hypoxemia		Normal oxygenation	