

pH: 7.35-7.45
 PaCO2: 35-45
 HCO3: 22-26

Instructional Module 7: ABG Practice 1

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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
Interpretation:		Interpretation:		Interpretation:	
Metabolic acidosis		Respiratory alkalosis		Respiratory acidosis	
Fully compensated		Uncompensated		Fully compensated	
Moderate hypoxemia		Mild hypoxemia		Normal	

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
Interpretation:		Interpretation:		Interpretation:	
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
PaCO2	30 mmHg	PaCO2	44mmHg	PaCO2	38mmHg
HCO3	18mEq/L	HCO3	36mEq/L	HCO3	25.3mEq/L
pO2	55	pO2	64	pO2	92
Interpretation:		Interpretation:		Interpretation:	
Metabolic acidosis		Metabolic alkalosis		normal	
Partial compensation		Uncompensated			
Severe hypoxemia		Moderate hypoxemia			

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
Interpretation:		Interpretation:		Interpretation:	
Metabolic acidosis		Metabolic acidosis		Respiratory alkalosis	
Partial compensation		Uncompensated		Partially compensated	
Moderate hypoxemia		Mild hypoxemia		normal	