

Instructional Module 7: ABG Practice 1

Student Name: Stephanie Pigg

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1		2		3	
pH	7.38 ↓N	pH	7.60 ↑	pH	7.37 ↓N
PaCO ₂	30mmHg ↓	PaCO ₂	25mmHg ↓	PaCO ₂	59 mmHg ↑
HCO ₃	10mEq/L ↓	HCO ₃	24mEq/L ↓N	HCO ₃	34mEq/L ↑
pO ₂	60	pO ₂	72	pO ₂	82
Interpretation:		Interpretation:		Interpretation:	
Metabolic Acidosis		Respiratory Alkalosis		Respiratory Acidosis	
Full Compensation		No Compensation		Full Compensation	
Moderate Hypoxemia		Mild Hypoxemia		Normal	

4		5		6	
pH	7.56 ↑	pH	7.34 ↓	pH	7.15 ↓
PaCO ₂	40mmHg N	PaCO ₂	50mmHg ↑	PaCO ₂	49 mmHg ↑
HCO ₃	38mEq/L ↑	HCO ₃	31mEq/L ↓	HCO ₃	25mEq/L ↓N
pO ₂	59	pO ₂	65	pO ₂	74
Interpretation:		Interpretation:		Interpretation:	
Metabolic Alkalosis		Respiratory Acidosis		Respiratory Acidosis	
No Compensation		Partial Compensation		No Compensation	
Severe Hypoxemia		Moderate Hypoxemia		Mild Hypoxemia	

7		8		9	
pH	7.20 ↓	pH	7.54 ↑	pH	7.42 ↓N
PaCO ₂	30 mmHg ↓	PaCO ₂	44mmHg ↓N	PaCO ₂	38mmHg ↓N
HCO ₃	18mEq/L ↓	HCO ₃	36mEq/L ↓	HCO ₃	25.3mEq/L ↓N
pO ₂	55	pO ₂	64	pO ₂	92
Interpretation:		Interpretation:		Interpretation:	
Metabolic Acidosis		Metabolic Alkalosis		Normal – Leaning toward Respiratory Alkalosis	
Partial Compensation		No Compensation		No Compensation	
Severe Hypoxemia		Moderate Hypoxemia		Normal	

10		11		12	
pH	7.31 ↓	pH	7.27 ↓	pH	7.55 ↑
PaCO ₂	33mmHg ↓	PaCO ₂	35mmHg ↓N	PaCO ₂	34mmHg ↓
HCO ₃	16mEq/L ↓	HCO ₃	10mEq/L ↓	HCO ₃	16.8mEq/L ↓
pO ₂	68	pO ₂	78	pO ₂	91
Interpretation:		Interpretation:		Interpretation:	
Metabolic Acidosis		Metabolic Acidosis		Respiratory Alkalosis	
Partial Compensation		No Compensation		Partial Compensation	
Moderate Hypoxemia		Moderate Hypoxemia		Normal	