

Instructional Module 7: ABG Practice 1

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Date: 12-7-21

1		2		3	
pH	7.38 ↓	pH	7.60 ↑	pH	7.37 ↓
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:	
Fully compensated Metabolic acidosis Moderate hypoxemia		Uncompensated Respiratory alkalosis Mild hypoxemia		Fully compensated Respiratory acidosis 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:	
Uncompensated Metabolic alkalosis Severe hypoxemia		Partially compensated Respiratory acidosis Moderate hypoxemia		Uncompensated Respiratory acidosis Mild hypoxemia	

7		8		9	
pH	7.20 ↓	pH	7.54 ↑	pH	7.42 ↑ N
PaCO ₂	30 mmHg ↓	PaCO ₂	44mmHg N ₁	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 N
Interpretation:		Interpretation:		Interpretation:	
Partially compensated Metabolic acidosis Severe hypoxemia		Uncompensated Metabolic alkalosis Moderate hypoxemia		Normal ABG	

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:	
Partially compensated Metabolic acidosis Moderate hypoxemia		Uncompensated Metabolic acidosis Mild hypoxemia		Partially compensated Respiratory alkalosis Normal	

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

Normal 80-100
Mild - 70-80
Moderate - 60-70
Severe - <60