

Instructional Module 7: ABG Practice 1

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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 MOD	pO ₂	72 mild	pO ₂	82 Norm
Interpretation:		Interpretation:		Interpretation:	
Metabolic acidosis		Respiratory Alkalosis Uncomp		Acidosis Respiratory Fully compensated Normal O ₂	
Fully compensated moderate hypoxemia		mild ^{unsatd} hypoxemia			

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 SEVERE	pO ₂	65 mod	pO ₂	74 mild
Interpretation:		Interpretation:		Interpretation:	
Metabolic alkalosis Uncompensated severe hypoxemia		Respiratory acidosis Partial compensation Moderate hypoxemia		Respiratory Acidosis Uncompensated mild hypoxemia	

7		8		9	
pH	7.20 ↓	pH	7.54 ↑	pH	7.42 ↑
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 SEVERE	pO ₂	64 MOD	pO ₂	92 Normal
Interpretation:		Interpretation:		Interpretation:	
Metabolic Acidosis Partial SEVERE compensation hypoxemia		Metabolic alkalosis Uncompensated moderate hypoxemia		Normal	

10		11		12	
pH	7.31 ↓	pH	7.27 ↓	pH	7.55 ↑
PaCO ₂	33mmHg ↓	PaCO ₂	35mmHg	PaCO ₂	34mmHg ↓
HCO ₃	16mEq/L ↓	HCO ₃	10mEq/L N ↓	HCO ₃	16.8mEq/L ↓

pO ₂ 68 mmHg	pO ₂ 78 mmHg	pO ₂ 91 mmHg
Interpretation:	Interpretation:	Interpretation:
Metabolic acidosis	Metabolic acidosis	Respiratory Alkalosis
		Partial compensation
Partial compensation moderate hypoxemia	uncompensated mild hypoxemia	Normal O ₂