

Instructional Module 7: ABG Practice 1

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1		2		3	
pH	7.38 N ↓	pH	7.60 A ↑	pH	7.37 N ↓
PaCO ₂	30mmHg ↓	PaCO ₂	25mmHg A ↓	PaCO ₂	59 mmHg ↑
HCO ₃	10mEq/L A ↓	HCO ₃	24mEq/L N	HCO ₃	34mEq/L ↑
pO ₂	60 moderate	pO ₂	72 mild	pO ₂	82 normal
Interpretation:		Interpretation:		Interpretation:	
metabolic acidosis		respiratory alkalosis		respiratory acidosis	
fully compensated		No compensation		fully compensated	
moderate hypoxemia		mild moderate		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 severe	pO ₂	65 mod	pO ₂	74 mild
Interpretation:		Interpretation:		Interpretation:	
metabolic alkalosis		respiratory acidosis		respiratory acidosis	
No compensation		partial compensation		No comp	
severe hypoxia		moderate hypoxia		mild hypoxia	

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 severe	pO ₂	64 mod	pO ₂	92 normal
Interpretation:		Interpretation:		Interpretation:	
metabolic acidosis		metabolic alkalosis		normal	
partial comp		No comp		normal	
severe hypoxia		mod hypoxia		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 mod	pO ₂	78 mild	pO ₂	91 normal
Interpretation:		Interpretation:		Interpretation:	
metabolic acidosis		metabolic acidosis		respiratory alkalosis	
partial comp		NO comp		partial comp	
moderate hypoxia		mild hypoxia		normal	