

Instructional Module 7: ABG Practice 1

Student Name: Katy Needham

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1		2		3	
pH	7.38 ↓ acidosis	pH	7.60 ↑ alkalotic	pH	7.37 ↓ acidosis
PaCO2	30mmHg ↓	PaCO2	25mmHg ↓	PaCO2	59 mmHg ↑
HCO3	10mEq/L ↓	HCO3	24mEq/L N	HCO3	34mEq/L ↑
pO2	60	pO2	72	pO2	82
Interpretation:		Interpretation:		Interpretation:	
metabolic acidosis		respiratory alkalosis		respiratory acidosis	
fully comp.		uncompensated		fully comp.	
severe hypoxemia		mild hypoxemia		normal oxygen	

4		5		6	
pH	7.56 ↑ alkalotic	pH	7.34 ↓ acidosis	pH	7.15 ↓ acidosis
PaCO2	40mmHg N	PaCO2	50mmHg ↑	PaCO2	49 mmHg ↑
HCO3	38mEq/L ↑	HCO3	31mEq/L ↑	HCO3	25mEq/L N
pO2	59	pO2	65	pO2	74
Interpretation:		Interpretation:		Interpretation:	
metabolic alkalosis		respiratory acidosis		respiratory acidosis	
uncompensated		partial comp		uncompensated	
severe hypoxemia		moderate hypoxemia		mild hypoxemia	

7		8		9	
pH	7.20 ↓ acidosis	pH	7.54 ↑ alkalotic	pH	7.42 N/alk
PaCO2	30 mmHg ↓	PaCO2	44mmHg N	PaCO2	38mmHg N
HCO3	18mEq/L ↓	HCO3	36mEq/L ↑	HCO3	25.3mEq/L N
pO2	55	pO2	64	pO2	92
Interpretation:		Interpretation:		Interpretation:	
metabolic acidosis		metabolic alkalosis		normal	
partial comp.		uncompensated		normal	
severe hypoxemia		moderate hypoxemia		normal	

10		11		12	
pH	7.31 ↓ acidosis	pH	7.27 ↓ acidosis	pH	7.55 ↑ alkalotic
PaCO2	33mmHg ↓	PaCO2	35mmHg N	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 comp.		uncompensated		partially comp.	
moderate hypoxemia		mild hypoxemia		normal oxygen	