

opposite arrows - respiratory
 same arrows - metabolic

Instructional Module 7: ABG Practice 1

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Date: _____

1		2		3	
pH	7.38 ↓ n	pH	7.60 ↑	pH	7.37 ↓
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 with partial compensation + moderate hypoxemia		respiratory alkalosis with no compensation + mild hypoxemia		respiratory acidosis with full compensation + no hypoxemia	

4		5		6	
pH	7.56 ↑	pH	7.34 ↓	pH	7.15 ↓
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 with no compensation + severe hypoxemia		respiratory acidosis with partial compensation + moderate hypoxemia		respiratory acidosis with no compensation + mild hypoxemia	

7		8		9	
pH	7.20 ↓	pH	7.54 ↑	pH	7.42 ↑ n
PaCO2	30 mmHg ↓	PaCO2	44mmHg ↑	PaCO2	38mmHg ↓ n
HCO3	18mEq/L ↓	HCO3	36mEq/L ↑	HCO3	25.3mEq/L n
pO2	55	pO2	64	pO2	92 n
Interpretation:		Interpretation:		Interpretation:	
metabolic acidosis with partial compensation + severe hypoxemia		metabolic alkalosis with partial compensation + moderate hypoxemia		normal	

10		11		12	
pH	7.31 ↓	pH	7.27 ↓	pH	7.55 ↑
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 with partial compensation + moderate hypoxemia		metabolic acidosis with no compensation + mild hypoxemia		respiratory alkalosis with partial compensation + no hypoxemia	

7.35 - 7.45
 2 = 35 - 45
 3 = 22 - 26

if less than 7.35 - acidosis, if more than 7.45 - alkalosis