

Instructional Module 7: ABG Practice 2

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1		2		3	
pH	7.34 ↓	pH	7.33 ↓	pH	7.57 ↑
PaCO ₂	32.9 mmHg ↓	PaCO ₂	41.3 mmHg NT	PaCO ₂	48 mmHg ↑
HCO ₃	19.2 mEq/L ↓	HCO ₃	21.4 mEq/L ↓	HCO ₃	48.2 mEq/L ↑
pO ₂	85.2	pO ₂	41	pO ₂	58.7
Interpretation:		Interpretation:		Interpretation:	
Partially compensated Metabolic Acidosis Normal Oxygenation		Uncompensated Metabolic Acidosis Severe hypoxemia		Partially compensated Metabolic Alkalosis Severe hypoxemia	

4		5		6	
pH	7.19 ↓	pH	7.09 ↓	pH	7.27 ↓
PaCO ₂	69.3 mmHg ↑	PaCO ₂	12.4 mmHg ↓	PaCO ₂	43 mmHg NT
HCO ₃	23 mEq/L NT	HCO ₃	5.1 mEq/L ↓	HCO ₃	13.4 mEq/L ↓
pO ₂	40.9	pO ₂	115.1	pO ₂	29.1
Interpretation:		Interpretation:		Interpretation:	
Uncompensated Respiratory Acidosis Severe hypoxemia		Partially compensated Metabolic Acidosis Hyp oxygenation		Uncompensated Metabolic Acidosis Severe hypoxemia	

7		8		9	
pH	7.45 NT ↑	pH	7.29 ↓	pH	7.61 ↑
PaCO ₂	28 mmHg ↓	PaCO ₂	79.5 mmHg ↑	PaCO ₂	24 mmHg ↓
HCO ₃	19.1 mEq/L ↓	HCO ₃	37.1 mEq/L ↓	HCO ₃	23 mEq/L NT
pO ₂	65.5	pO ₂	30	pO ₂	68
Interpretation:		Interpretation:		Interpretation:	
Partly compensated Respiratory Alkalosis Moderate hypoxemia		Partially compensated Respiratory Acidosis Severe hypoxemia		Uncompensated Respiratory Alkalosis Moderate hypoxemia	

10		11		12	
pH	7.51 ↑	pH	7.39 NT ↓	pH	7.31 ↓
PaCO ₂	39.4 mmHg NT ↓	PaCO ₂	39 mmHg NT ↓	PaCO ₂	58.5 mmHg ↑
HCO ₃	31.2 mEq/L ↑	HCO ₃	23.4 mEq/L NT	HCO ₃	26 mEq/L NT
pO ₂	77.3	pO ₂	80 NT	pO ₂	74.5
Interpretation:		Interpretation:		Interpretation:	
Uncompensated Metabolic Alkalosis Mild hypoxemia		Normal ABG Normal oxygenation		Uncompensated Respiratory Acidosis Mild hypoxemia	

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13		14		15	
pH	7.46	pH	7.44	pH	7.36
PaCO ₂	34 mmHg	PaCO ₂	27.8 mmHg	PaCO ₂	75.1 mmHg
HCO ₃	26 mEq/L	HCO ₃	19.2 mEq/L	HCO ₃	40.6 mEq/L
pO ₂	43.8	pO ₂	100	pO ₂	65.2
Interpretation:		Interpretation:		Interpretation:	

16		17		18	
pH	7.44	pH	7.18	pH	7.36
PaCO ₂	48 mmHg	PaCO ₂	42 mmHg	PaCO ₂	30 mmHg
HCO ₃	32.6 mEq/L	HCO ₃	15 mEq/L	HCO ₃	15 mEq/L
pO ₂	63.6	pO ₂	68	pO ₂	80
Interpretation:		Interpretation:		Interpretation:	

19		20		21	
pH	7.42	pH	7.52	pH	7.08
PaCO ₂	39 mmHg	PaCO ₂	47 mmHg	PaCO ₂	36 mmHg
HCO ₃	25.4 mEq/L	HCO ₃	26.5 mEq/L	HCO ₃	15 mEq/L
pO ₂	92	pO ₂	100	pO ₂	54
Interpretation:		Interpretation:		Interpretation:	