

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	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		Uncompensated		Partially compensated	
Metabolic acidosis		Metabolic acidosis		Metabolic alkalosis	
With normal oxygenation		With severe hypoxemia		With 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
HCO ₃	23 mEq/L	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		Partially compensated		Uncompensated	
Respiratory acidosis		Metabolic acidosis		Metabolic acidosis	
With severe hypoxemia		With normal oxygenation		With severe hypoxemia	

7		8		9	
pH	7.45	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
pO ₂	65.5	pO ₂	30	pO ₂	68
Interpretation:		Interpretation:		Interpretation:	
Fully compensated		Partially compensated		Uncompensated	
Respiratory alkalosis		Respiratory acidosis		Respiratory alkalosis	
With moderate hypoxemia		With severe hypoxemia		With moderate hypoxemia	

10		11		12	
pH	7.51	pH	7.39	pH	7.31
PaCO ₂	39.4 mmHg	PaCO ₂	39 mmHg	PaCO ₂	58.5 mmHg
HCO ₃	31.2 mEq/L	HCO ₃	23.4 mEq/L	HCO ₃	26 mEq/L
pO ₂	77.3	pO ₂	80	pO ₂	74.5
Interpretation:		Interpretation:		Interpretation:	
Uncompensated		No compensation		Uncompensated	
Metabolic alkalosis		Normal ABG reading		Respiratory acidosis	
With mild hypoxemia		Normal oxygenation		With 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:	
Uncompensated		Fully compensated		Fully compensated	
Respiratory alkalosis		Respiratory alkalosis		Respiratory acidosis	
With severe hypoxemia		With normal oxygenation		With moderate hypoxemia	

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:	
Fully compensated		Uncompensated		Fully compensated	
Metabolic alkalosis		Metabolic acidosis		Metabolic acidosis	
With moderate hypoxemia		With moderate hypoxemia		With normal oxygenation	

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:	
No compensation		Partially compensated		Uncompensated	
Normal ABG reading		Metabolic alkalosis		Metabolic acidosis	
Normal oxygenation		With normal oxygenation		With severe hypoxemia	