

Instructional Module 7: ABG Practice 2

Student Name: MEAGAN BRITZ

pH: 7.35 - 7.45
CO₂: 35 - 45
HCO₃: 22 - 26

Date: 8/30/22

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 Normal	pO ₂	41 Severe	pO ₂	58.7 Severe
Interpretation:		Interpretation:		Interpretation:	
partially comp'd metabolic acidosis		uncompensated metabolic acidosis		partially comp'd metabolic alkalosis	
Normal O ₂		severe hypoxemia		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 Normal	HCO ₃	5.1 mEq/L ↓	HCO ₃	13.4 mEq/L ↓
pO ₂	40.9 Severe	pO ₂	115.1 Normal	pO ₂	29.1 Severe
Interpretation:		Interpretation:		Interpretation:	
uncompensated respiratory acidosis		partially comp'd metabolic acidosis		uncompensated metabolic acidosis	
severe hypoxemia		High O ₂		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 Normal
pO ₂	65.5 Moderate	pO ₂	30 Severe	pO ₂	68 Moderate
Interpretation:		Interpretation:		Interpretation:	
fully comp'd respiratory alkalosis		partially comp'd respiratory acidosis		uncompensated respiratory alkalosis	
moderate hypoxemia		severe hypoxemia		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 Normal	HCO ₃	26 mEq/L Normal
pO ₂	77.3 Mild	pO ₂	80 Normal	pO ₂	74.5 Mild
Interpretation:		Interpretation:		Interpretation:	
uncompensated metabolic alkalosis		Normal ABG		uncompensated respiratory acidosis	
mild hypoxemia				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 <small>Normal</small>	HCO ₃	19.2 mEq/L ↓	HCO ₃	40.6 mEq/L ↑
pO ₂	43.8 Severe	pO ₂	100 Normal	pO ₂	65.2 Moderate
Interpretation:		Interpretation:		Interpretation:	
Uncompensated		Fully Comp'd		Fully Comp'd	
Respiratory alkalosis		Respiratory alkalosis		Respiratory acidosis	
Severe hypoxemia		Normal O ₂		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 Moderate	pO ₂	68 Moderate	pO ₂	80 Normal
Interpretation:		Interpretation:		Interpretation:	
Fully Comp'd		Uncompensated		Fully Comp'd	
Metabolic alkalosis		Metabolic acidosis		Metabolic acidosis	
Moderate hypoxemia		Moderate hypoxemia		Normal O ₂	
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 <small>Normal</small>	HCO ₃	26.5 mEq/L ↑	HCO ₃	15 mEq/L ↓
pO ₂	92 Normal	pO ₂	100 Normal	pO ₂	54 Severe
Interpretation:		Interpretation:		Interpretation:	
Normal ABG		Partially Comp'd		Uncompensated	
		Metabolic alkalosis		Metabolic acidosis	
		Normal O ₂		Severe hypoxemia	