

Instructional Module 7: ABG Practice 2

Student Name: Sydney Sharp

Date: _____

1	2	3
pH ↓ 7.34	pH ↓ 7.33 ↓	pH 7.57 ↑ alk
PaCO ₂ ↓ 32.9 mmHg	PaCO ₂ 41.3 mmHg N	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 severe	pO ₂ 58.7 severe
Interpretation:	Interpretation:	Interpretation:
Partial compensated metabolic acidosis Normal oxygenation	Uncompensated metabolic acidosis Severe hypoxemia	Partially compensated metabolic alkalosis Severe hypoxemia

4	5	6
pH 7.19 acid ↓	pH 7.09 acid ↓	pH 7.27 acid ↓
PaCO ₂ 69.3 mmHg res ↑	PaCO ₂ 12.4 mmHg M ↓	PaCO ₂ 43 mmHg N ↑
HCO ₃ 23 mEq/L N	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 Normal oxygenation high	Uncompensated metabolic acidosis Severe hypoxemia

7	8	9
pH 7.45 N ↑	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 N ↓
pO ₂ 65.5	pO ₂ 30 severe	pO ₂ 68
Interpretation:	Interpretation:	Interpretation:
Fully 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 N	pH 7.31 ↓
PaCO ₂ 39.4 mmHg N	PaCO ₂ 39 mmHg N	PaCO ₂ 58.5 mmHg ↑
HCO ₃ 31.2 mEq/L ↑	HCO ₃ 23.4 mEq/L N	HCO ₃ 26 mEq/L N
pO ₂ 77.3	pO ₂ 80	pO ₂ 74.5
Interpretation:	Interpretation:	Interpretation:
Uncompensated Metabolic alkalosis Mild hypoxemia	Normal blood gas Normal oxygenation	Uncompensated Respiratory acidosis Mild hypoxemia

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13			14			15		
pH	7.46	↑	pH	7.44	N ↑	pH	7.36	N ↓
PaCO ₂	34 mmHg	↓	PaCO ₂	27.8 mmHg	↓	PaCO ₂	75.1 mmHg	↑
HCO ₃ ⁻	26 mEq/L	N	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		
Severe hypoxemia			Normal oxygenation			Moderate hypoxemia		

16			17			18		
pH	7.44	N ↑	pH	7.18	↓	pH	7.36	N ↓
PaCO ₂	48 mmHg	↑	PaCO ₂	42 mmHg	N ↑	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		
mod. oxygenation			Moderate hypoxemia			Normal oxygenation		

19			20			21		
pH	7.42	N ↑	pH	7.52	↑	pH	7.08	↓
PaCO ₂	39 mmHg	N	PaCO ₂	47 mmHg	↑	PaCO ₂	36 mmHg	N ↓
HCO ₃ ⁻	25.4 mEq/L	N	HCO ₃ ⁻	26.5 mEq/L	↑	HCO ₃ ⁻	15 mEq/L	↓
pO ₂	92		pO ₂	100		pO ₂	54	
Interpretation:			Interpretation:			Interpretation:		
Normal blood gas			Partially compensated			Uncompensated		
			metabolic alkalosis			metabolic acidosis		
Normal oxygenation			Normal oxygenation			Severe hypoxemia		