

Instructional Module 7: ABG Practice 2

Student Name: Alexi Vigil

Date: 05/02/22

1	2	3
pH 7.34 ↓	pH 7.33 ↓	pH 7.57 ↑
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	pO ₂ 58.7
Interpretation:	Interpretation:	Interpretation:
Metabolic Acidosis	Metabolic Acidosis	Metabolic Alkalosis
Partial Compensation	No compensation	Partial Compensation
Normal Oxygenation	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 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:
Respiratory Acidosis	Metabolic Acidosis	Metabolic Acidosis
No Compensation	Partial Compensation	No Compensation
Severe hypoxia	High Oxygenation	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	pO ₂ 68
Interpretation:	Interpretation:	Interpretation:
Respiratory Alkalosis	Respiratory Acidosis	Respiratory Alkalosis
Full Compensation	Partial Compensation	No Compensation
Mod Hypoxemia	Severe Compensation	Mod. 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:
Metabolic Alkalosis	Normal ABG	Respiratory Acidosis
No compensation		No Compensation
Mild hypoxemia		Mild hypoxemia

Instructional Module 7: ABG Practice 2

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:	
Respiratory Alkalosis		Respiratory Alkalosis		Respiratory Acidosis	
No compensation		Full Compensation		Full Compensation	
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:	
Metabolic Alkalosis		Metabolic Acidosis		Metabolic Acidosis	
Full compensation		No compensation		Full Compensation	
Moderate hypoxemia		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 ABG		Metabolic Alkalosis		Metabolic Acidosis	
		Partial Compensation		No compensation	
		Normal Oxygenation		Severe hypoxemia	