

Instructional Module 7: ABG Practice 1

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1	2	3
pH 7.38	pH 7.60	pH 7.37
PaCO ₂ 30mmHg	PaCO ₂ 25mmHg	PaCO ₂ 59 mmHg
HCO ₃ 10mEq/L	HCO ₃ 24mEq/L	HCO ₃ 34mEq/L
pO ₂ 60	pO ₂ 72	pO ₂ 82
Interpretation:	Interpretation:	Interpretation:
Metabolic acidosis	Respiratory alkalosis	Respiratory acidosis
Moderate hypoxemia	Mild hypoxemia	Normal oxygenation
Full compensation	No compensation	Full compensation

4	5	6
pH 7.56	pH 7.34	pH 7.15
PaCO ₂ 40mmHg	PaCO ₂ 50mmHg	PaCO ₂ 49 mmHg
HCO ₃ 38mEq/L	HCO ₃ 31mEq/L	HCO ₃ 25mEq/L
pO ₂ 59	pO ₂ 65	pO ₂ 74
Interpretation:	Interpretation:	Interpretation:
Metabolic alkalosis	Respiratory acidosis	Respiratory acidosis
Severe hypoxemia	Moderate hypoxemia	Mild hypoxemia
No compensation	Partial compensation	No compensation

7	8	9
pH 7.20	pH 7.54	pH 7.42
PaCO ₂ 30 mmHg	PaCO ₂ 44mmHg	PaCO ₂ 38mmHg
HCO ₃ 18mEq/L	HCO ₃ 36mEq/L	HCO ₃ 25.3mEq/L
pO ₂ 55	pO ₂ 64	pO ₂ 92
Interpretation:	Interpretation:	Interpretation:
Metabolic acidosis	Metabolic alkalosis	Normal ABG
Severe hypoxemia	Moderate hypoxemia	Normal oxygenation
Partial compensation	No compensation	

10	11	12
pH 7.31	pH 7.27	pH 7.55
PaCO ₂ 33mmHg	PaCO ₂ 35mmHg	PaCO ₂ 34mmHg
HCO ₃ 16mEq/L	HCO ₃ 10mEq/L	HCO ₃ 16.8mEq/L
pO ₂ 68	pO ₂ 78	pO ₂ 91
Interpretation:	Interpretation:	Interpretation:
Metabolic acidosis	Metabolic acidosis	Respiratory alkalosis
Moderate hypoxemia	Mild hypoxemia	Normal oxygenation
Partial compensation	No compensation	Partial compensation