

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 mod	pO ₂ 72 mild	pO ₂ 82 ✓
Interpretation:	Interpretation:	Interpretation:
Fully compensated	uncompensated	fully compensated
Metabolic acidosis	respiratory alkalosis	respiratory acidosis
Moderate hypoxia hypoxemia	Mild hypoxia hypoxemia	normal oxygenation

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 severe	pO ₂ 65 mod	pO ₂ 74 mild
Interpretation:	Interpretation:	Interpretation:
uncompensated	partially compensated	uncompensated
metabolic alkalosis	respiratory acidosis	respiratory acidosis
Severe hypoxia hypoxemia	Moderate hypoxia hypoxemia	Mild hypoxia hypoxemia

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 Severe	pO ₂ 64 mod	pO ₂ 92 -
Interpretation:	Interpretation:	Interpretation:
partially compensated	uncompensated	normal ABG
Metabolic acidosis	metabolic alkalosis	
Severe hypoxia hypoxemia	Moderate hypoxia hypoxemia	

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 mod	pO ₂ 78 mild	pO ₂ 91 ✓
Interpretation:	Interpretation:	Interpretation:
Partially compensated	uncompensated	partially compensated
Metabolic acidosis	metabolic acidosis	respiratory alkalosis
Moderate hypoxia hypoxemia	Mild hypoxia hypoxemia	normal oxygenation