

Instructional Module 7: ABG Practice 1

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1	2	3
pH 7.38 N (Alid)	pH 7.60 ↑	pH 7.37 N (Alid)
PaCO ₂ 30mmHg ↓	PaCO ₂ 25mmHg ↓	PaCO ₂ 59 mmHg ↓
HCO ₃ 10mEq/L ↓	HCO ₃ 24mEq/L N	HCO ₃ 34mEq/L ↑
pO ₂ 60 moderate	pO ₂ 72 mild	pO ₂ 82
Interpretation:	Interpretation:	Interpretation:
Metabolic Acidosis	Respiratory Alkalosis	Respiratory acidosis
Full compensation	no compensation	fully comp
Moderate hypoxemia	mild hypoxemia	no hypoxemia

4	5	6
pH 7.56 ↑	pH 7.34 ↓	pH 7.15 ↓
PaCO ₂ 40mmHg (N)	PaCO ₂ 50mmHg ↑	PaCO ₂ 49 mmHg ↑
HCO ₃ 38mEq/L ↑	HCO ₃ 31mEq/L ↑	HCO ₃ 25mEq/L N
pO ₂ 59 severe	pO ₂ 65 mod	pO ₂ 74 mild
Interpretation:	Interpretation:	Interpretation:
Metabolic alkalosis	respiratory acidosis	respiratory acidosis
no compensation	partially compensated	no compensation
Severe hypoxemia	mod hypoxemia	mild hypoxemia

7	8	9
pH 7.20 ↓	pH 7.54 ↑	pH 7.42 N
PaCO ₂ 30 mmHg ↓	PaCO ₂ 44mmHg N	PaCO ₂ 38mmHg N
HCO ₃ 18mEq/L ↓	HCO ₃ 36mEq/L ↑	HCO ₃ 25.3mEq/L N
pO ₂ 55 severe	pO ₂ 64 mod	pO ₂ 92 normal
Interpretation:	Interpretation:	Interpretation:
Metabolic acidosis	Metabolic alkalosis	
partial comp.	no comp.	
Severe hypoxemia	moderate hypoxemia	normal ABG

10	11	12
pH 7.31 ↓	pH 7.27 ↓	pH 7.55 ↑
PaCO ₂ 33mmHg ↓	PaCO ₂ 35mmHg N	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 normal
Interpretation:	Interpretation:	Interpretation:
Metabolic acidosis	Metabolic acidosis	Respiratory alkalosis
partial compensation	no compensation	partial compensation
moderate hypoxia	mild hypoxemia	no hypoxemia

7.35-7.45
35-45
22-24