

Instructional Module 7: ABG Practice 1

Student Name: MEREDITH EDWARDS

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1	2	3
pH 7.38 acid ↓	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	resp. alkalosis	resp. acidosis
partially compensated	no compensation	full compensation
moderate hypoxemia	mild 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	pO ₂ 65	pO ₂ 74
Interpretation:	Interpretation:	Interpretation:
metabolic alkalosis	resp. acidosis	resp. acidosis
no compensation	partial compensation	no compensation
severe hypoxemia	moderate hypoxemia	mild 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	pO ₂ 64	pO ₂ 92
Interpretation:	Interpretation:	Interpretation:
metabolic acidosis	metabolic alkalosis	normal ABG
partial compensation	no compensation	
severe hypoxemia	moderate hypoxemia	normal oxygenation

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	resp. alkalosis
partial compensation	no compensation	partial compensation
moderate hypoxemia	mild hypoxemia	normal oxygenation