

Instructional Module 7: ABG Practice 1

Student Name: Alexa Bobbins

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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
fully compensated	no compensation	fully compensated
moderate hypoxemia	mild hypoxemia	normal O ₂

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
no compensation	partially compensated	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
partially compensated	uncompensated	normal oxygenation
severe hypoxemia	moderate 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	pO ₂ 78	pO ₂ 91
Interpretation:	Interpretation:	Interpretation:
metabolic acidosis	metabolic acidosis	respiratory alkalosis
partially compensated	no compensation	partially compensated
moderate hypoxemia	mild hypoxemia	normal oxygenation

a/n/b
Ph/CO₂
HCO₃

a/n/b
HCO₃/Ph
CO₂

a/n/b
CO₂/Ph/HCO₃

a/n/b
CO₂/Ph
HCO₃

a/n/b
Ph/HCO₃
CO₂

a/n/b
Ph/HCO₃
CO₂

a/n/b
Ph/Ph
CO₂
HCO₃

a/n/b
Ph/HCO₃
CO₂

a/n/b
HCO₃/CO₂/Ph
CO₂