

hypoxemia
 mild 70-79
 moderate 60-69
 severe <60

pH 7.35-7.45 normal 7.40
 CO₂ 35-45
 HCO₃ 22-26

Instructional Module 7: ABG Practice 1

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1	2	3
pH 7.38 N ↓ <small>normal: full</small> acidosis	pH 7.60 ↑ alkalosis	pH 7.37 N ↓ <small>normal: full</small> acidosis
PaCO ₂ 30mmHg ↓ <small>abnormal: compensation</small>	PaCO ₂ 25mmHg ↓ respiratory	PaCO ₂ 59 mmHg ↑ respiratory
HCO ₃ 10mEq/L ↓ metabolic	HCO ₃ 24mEq/L N <small>normal: no compensation</small>	HCO ₃ 34mEq/L ↑ <small>abnormal: compensation</small>
pO ₂ 60	pO ₂ 72	pO ₂ 82
Interpretation:	Interpretation:	Interpretation:
metabolic acidosis	respiratory alkalosis	respiratory acidosis
full compensation	no compensation	full compensation
moderate hypoxemia	mild hypoxemia	normal oxygenation

4	5	6
pH 7.56 ↑ alkalosis	pH 7.34 ↓ acidosis <small>abnormal: partial</small>	pH 7.15 ↓ acidosis
PaCO ₂ 40mmHg N <small>normal: no compensation</small>	PaCO ₂ 50mmHg ↑ respiratory	PaCO ₂ 49 mmHg ↑ respiratory
HCO ₃ 38mEq/L ↑ metabolic	HCO ₃ 31mEq/L ↑ <small>abnormal: compensation</small>	HCO ₃ 25mEq/L N <small>normal: no compensation</small>
pO ₂ 59	pO ₂ 65	pO ₂ 74
Interpretation:	Interpretation:	Interpretation:
metabolic alkalosis	respiratory acidosis	respiratory acidosis
no compensation	partial compensation	no compensation
severe hypoxemia	moderate hypoxemia	mild hypoxemia

7	8	9
pH 7.20 ↓ acidosis <small>abnormal: partial</small>	pH 7.54 ↑ alkalosis	pH 7.42 N ↑
PaCO ₂ 30 mmHg ↓ <small>abnormal: compensation</small>	PaCO ₂ 44mmHg N <small>normal: no compensation</small>	PaCO ₂ 38mmHg N
HCO ₃ 18mEq/L ↓ metabolic	HCO ₃ 36mEq/L ↑ metabolic	HCO ₃ 25.3mEq/L N
pO ₂ 55	pO ₂ 64	pO ₂ 92
Interpretation:	Interpretation:	Interpretation:
metabolic acidosis	metabolic alkalosis	normal
partial compensation	no compensation	RBB
severe hypoxemia	moderate hypoxemia	normal oxygenation

10	11	12
pH 7.31 ↓ acidosis <small>abnormal: partial</small>	pH 7.27 ↓ acidosis	pH 7.55 ↑ alkalosis <small>abnormal: partial</small>
PaCO ₂ 33mmHg ↓ <small>abnormal: compensation</small>	PaCO ₂ 35mmHg N <small>normal: no compensation</small>	PaCO ₂ 34mmHg ↓ respiratory
HCO ₃ 16mEq/L ↓ metabolic	HCO ₃ 10mEq/L ↓ metabolic	HCO ₃ 16.8mEq/L ↓ <small>abnormal: compensation</small>
pO ₂ 68	pO ₂ 78	pO ₂ 91
Interpretation:	Interpretation:	Interpretation:
metabolic acidosis	metabolic acidosis	respiratory alkalosis
partial compensation	no compensation	partial compensation
moderate hypoxemia	mild hypoxemia	normal oxygenation