

Instructional Module 7: ABG Practice 1

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pH 7.35-7.45
 CO₂ 35-45
 HCO₃ 22-26
 mild 70-79 moderate 60-69 severe <60

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1	2	3
pH 7.38 ↓ normal	pH 7.60 ↑	pH 7.37 ↓ normal
PaCO ₂ 30mmHg ↓	PaCO ₂ 25mmHg ↓	PaCO ₂ 59 mmHg ↑
HCO ₃ 10mEq/L ↓	HCO ₃ 24mEq/L normal	HCO ₃ 34mEq/L ↑
pO ₂ 60 moderate	pO ₂ 72 mild	pO ₂ 82 good
Interpretation:	Interpretation:	Interpretation:
moderate hypoxia	mild hypoxia	well oxygenated
fully compensated	uncompensated	fully compensated
metabolic acidosis	respiratory alkalosis	respiratory acidosis

4	5	6
pH 7.56 ↑	pH 7.34 ↓	pH 7.15 ↓
PaCO ₂ 40mmHg normal	PaCO ₂ 50mmHg ↑	PaCO ₂ 49 mmHg ↑
HCO ₃ 38mEq/L ↑	HCO ₃ 31mEq/L ↑	HCO ₃ 25mEq/L normal
pO ₂ 59 severe	pO ₂ 65 moderate	pO ₂ 74 mild
Interpretation:	Interpretation:	Interpretation:
severe hypoxia	moderate hypoxia	mild hypoxia
uncompensated	partially compensated	uncompensated
metabolic alkalosis	respiratory acidosis	respiratory acidosis

7	8	9
pH 7.20 ↓	pH 7.54 ↑	pH 7.42 ↑ normal
PaCO ₂ 30 mmHg ↓	PaCO ₂ 44mmHg normal	PaCO ₂ 38mmHg normal
HCO ₃ 18mEq/L ↓	HCO ₃ 36mEq/L ↑	HCO ₃ 25.3mEq/L normal
pO ₂ 55 severe	pO ₂ 64 moderate	pO ₂ 92 good
Interpretation:	Interpretation:	Interpretation:
severe hypoxia	moderate hypoxia	normal ABG
partially compensated	uncompensated	☺
metabolic acidosis	metabolic alkalosis	

10	11	12
pH 7.31 ↓	pH 7.27 ↓	pH 7.55 ↑
PaCO ₂ 33mmHg ↓	PaCO ₂ 35mmHg normal	PaCO ₂ 34mmHg ↓
HCO ₃ 16mEq/L ↓	HCO ₃ 10mEq/L ↓	HCO ₃ 16.8mEq/L ↓
pO ₂ 68 moderate	pO ₂ 78 mild	pO ₂ 91 good
Interpretation:	Interpretation:	Interpretation:
moderate hypoxia	mild hypoxia	well oxygenated
partially compensated	uncompensated	partially compensated
metabolic acidosis	metabolic acidosis	respiratory alkalosis