

Instructional Module 7: ABG Practice 1

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Date: 8/25/24

(7.35 - 7.45)
(35 - 45)
(22 - 26)
(80 - 100)
mild - (70 - 74)
mod - (60 - 64)
severe - <60

1	2	3
pH (7.4) 7.38 ↓ (7.35-7.45)	pH 7.60 ↑	pH 7.37 ↓
PaCO2 30mmHg ↓ (35-45)	PaCO2 25mmHg ↓	PaCO2 59 mmHg ↑
HCO3 10mEq/L (22-26)	HCO3 24mEq/L N	HCO3 34mEq/L ↑
pO2 60 Mod	pO2 72	pO2 82 Normal
Interpretation:	Interpretation:	Interpretation:
Fully compensated metabolic acidosis	Respiratory Alkalosis with mild hypoxemia	Respiratory Acidosis
Moderate hypoxemia	Uncompensated	Fully Compensated Normal oxygenation

4	5	6
pH 7.56 ↑	pH 7.34 ↓	pH 7.15 ↓
PaCO2 40mmHg N	PaCO2 50mmHg ↑	PaCO2 49 mmHg ↑
HCO3 38mEq/L ↑	HCO3 31mEq/L ↑	HCO3 25mEq/L ↑
pO2 59 severe	pO2 65	pO2 74
Interpretation:	Interpretation:	Interpretation:
Metabolic Alkalosis Uncompensated	Partially compensated respiratory acidosis	Respiratory Acidosis with mild hypoxemia
Severe hypoxemia	Moderate hypoxemia	Uncompensated

7	8	9
pH 7.20 ↓	pH 7.54 ↑	pH 7.42 ↑ NWL
PaCO2 30 mmHg ↓	PaCO2 44mmHg ↑	PaCO2 38mmHg NWL
HCO3 18mEq/L ↓	HCO3 36mEq/L ↑	HCO3 25.3mEq/L NWL
pO2 55 severe	pO2 64	pO2 92 Normal
Interpretation:	Interpretation:	Interpretation:
Partial compensation metabolic acidosis	Uncompensated metabolic alkalosis	Uncompensated respiratory alkalosis
Severe hypoxemia	Moderate hypoxemia	Normal oxygenation

Normal ABG

10	11	12
pH 7.31 ↓	pH 7.27 ↓	pH 7.55 ↑
PaCO2 33mmHg ↓	PaCO2 35mmHg ↓	PaCO2 34mmHg ↓
HCO3 16mEq/L ↓	HCO3 10mEq/L ↓	HCO3 16.8mEq/L ↓
pO2 68	pO2 78	pO2 91 Normal
Interpretation:	Interpretation:	Interpretation:
Partial compensation metabolic acidosis	Uncompensated metabolic acidosis	Partial compensation respiratory alkalosis
Moderate hypoxemia	Mild hypoxemia	Normal oxygenation