

Instructional Module 7: ABG Practice 1

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7.35-7.45
35-45
22-26

80-100 n
70-79 mild
60-69 mod
<60 sev.

1	2	3
pH 7.38 ↓ n	pH 7.60 ↑	pH 7.37 ↓ n
PaCO2 30mmHg ↓	PaCO2 25mmHg ↓	PaCO2 59 mmHg ↑
HCO3 10mEq/L ↓	HCO3 24mEq/L n	HCO3 34mEq/L ↑
pO2 60	pO2 72	pO2 82
Interpretation:	Interpretation:	Interpretation:
fully compensated metabolic acidosis severe hypoxemia	uncompensated respiratory alkalosis mild hypoxemia	fully compensated respiratory acidosis normal O2

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 n
pO2 59	pO2 65	pO2 74
Interpretation:	Interpretation:	Interpretation:
uncompensated metabolic alkalosis severe hypoxemia	partially compensated respiratory acidosis moderate hypoxemia	uncompensated respiratory acidosis mild hypoxemia

7	8	9
pH 7.20 ↓	pH 7.54 ↑	pH 7.42 ↑ n
PaCO2 30 mmHg ↓	PaCO2 44mmHg n	PaCO2 38mmHg n
HCO3 18mEq/L ↓	HCO3 36mEq/L ↑	HCO3 25.3mEq/L n
pO2 55	pO2 64	pO2 92
Interpretation:	Interpretation:	Interpretation:
partially compensated metabolic acidosis severe hypoxemia	uncompensated metabolic alkalosis moderate hypoxemia	normal ABC normal O2

10	11	12
pH 7.31 ↓	pH 7.27 ↓	pH 7.55 ↑
PaCO2 33mmHg n	PaCO2 35mmHg n	PaCO2 34mmHg ↓
HCO3 16mEq/L ↓	HCO3 10mEq/L ↓	HCO3 16.8mEq/L ↓
pO2 68	pO2 78	pO2 91
Interpretation:	Interpretation:	Interpretation:
partially compensated metabolic acidosis moderate hypoxemia	uncompensated metabolic acidosis mild hypoxemia	partially compensated respiratory alkalosis normal O2