# Instructional Module 7: ABG Practice 2

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| 1 | 2 | 3 |
|---|---|---|
| pH 7.34 | pH 7.33 | pH 7.57 |
| PaCO2 32.9 mmHg | PaCO2 41.3 mmHg | PaCO2 48 mmHg |
| HCO3 19.2 mEq/L | HCO3 21.4 mEq/L | HCO3 48.2 mEq/L |
| pO2 85.2 | pO2 41 | pO2 58.7 |
| **Interpretation:** | **Interpretation:** | **Interpretation:** |
| Metabolic Acidosis | Respiratory Acidosis | Metabolic Alkalosis |
| Partial Compensation | Partial Compensation | Partial Compensation |
| Normal | Severe Hypoxemia | Severe Hypoxemia |

| 4 | 5 | 6 |
|---|---|---|
| pH 7.19 | pH 7.09 | pH 7.27 |
| PaCO2 69.3 mmHg | PaCO2 12.4 mmHg | PaCO2 43 mmHg |
| HCO3 23 mEq/L | HCO3 5.1 mEq/L | HCO3 13.4 mEq/L |
| pO2 40.9 | pO2 115.1 | pO2 29.1 |
| **Interpretation:** | **Interpretation:** | **Interpretation:** |
| Respiratory Acidosis | Metabolic Acidosis | Respiratory Acidosis |
| Uncompensated | Partial Compensation | Partial Compensation |
| Severe Hypoxemia | High oxygen??? | Severe Hypoxemia |

| 7 | 8 | 9 |
|---|---|---|
| pH 7.45 | pH 7.29 | pH 7.61 |
| PaCO2 28 mmHg | PaCO2 79.5 mmHg | PaCO2 24 mmHg |
| HCO3 19.1 mEq/L | HCO3 37.1 mEq/L | HCO3 23 mEq/L |
| pO2 65.5 | pO2 30 | pO2 68 |
| **Interpretation:** | **Interpretation:** | **Interpretation:** |

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| | | |
|---|---|---|
| Respiratory Alkalosis | Respiratory Acidosis | Respiratory Alkalosis |
| Total Compensation | Partial Compensation | Uncompensated |
| Moderate Hypoxemia | Severe Hypoxemia | Moderate Hypoxemia |

| **10** | **11** | **12** |
|---|---|---|
| pH 7.51 | pH 7.39 | pH 7.31 |
| PaCO2 39.4 mmHg | PaCO2 39 mmHg | PaCO2 58.5 mmHg |
| HCO3 31.2 mEq/L | HCO3 23.4 mEq/L | HCO3 26 mEq/L |
| pO2 77.3 | pO2 80 | pO2 74.5 |
| **Interpretation:** | **Interpretation:** | **Interpretation:** |
| Respiratory Alkalosis | Metabolic Acidosis (Normal) | Respiratory Acidosis |
| Partial Compensation | Uncompensated | Uncompensated |
| Mild Hypoxemia | Normal | Mild Hypoxemia |

| **13** | **14** | **15** |
|---|---|---|
| pH 7..46 | pH 7.44 | pH 7.36 |
| PaCO2 34 mmHg | PaCO2 27.8 mmHg | PaCO2 75.1 mmHg |
| HCO3 26 mEq/L | HCO3 19.2 mEq/L | HCO3 40.6 mEq/L |
| pO2 43.8 | pO2 100 | pO2 65.2 |
| **Interpretation:** | **Interpretation:** | **Interpretation:** |
| Respiratory Alkalosis | Respiratory Alkalosis | Respiratory Acidosis |
| Uncompensated | Total Compensation | Full compensation |
| Severe Hypoxemia | Normal | Moderate Hypoxemia |

| **16** | **17** | **18** |
|---|---|---|
| pH 7.44 | pH 7.18 | pH 7.36 |

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| | | |
|---|---|---|
| PaCO2 48 mmHg | PaCO2 42 mmHg | PaCO2 30 mmHg |
| HCO3 32.6 mEq/L | HCO3 15 mEq/L | HCO3 15 mEq/L |
| pO2 63.6 | pO2 68 | pO2 80 |
| **Interpretation:** | **Interpretation:** | **Interpretation:** |
| Metabolic Alkalosis | Respiratory Acidosis | Metabolic Acidosis |
| Full Compensation | Partial Compensation | Total Compensation |
| Moderate Hypoxemia | Moderate Hypoxemia | Normal |

| **19** | **20** | **21** |
|---|---|---|
| pH 7.42 | pH 7.52 | pH 7.08 |
| PaCO2 39 mmHg | PaCO2 47 mmHg | PaCO2 36 mmHg |
| HCO3 25.4 mEq/L | HCO3 26.5 mEq/L | HCO3 15 mEq/L |
| pO2 92 | pO2 100 | pO2 54 |
| **Interpretation:** | **Interpretation:** | **Interpretation:** |
| Respiratory Alkalosis (Normal) | Metabolic Alkalosis | Metabolic Acidosis |
| Uncompensated | Partial Compensation | Uncompensated |
| Normal | Normal | Severe Hypoxemia |