

Instructional Module 7: ABG Practice 1

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| 1 | | 2 | | 3 | |
|------------------------|---------|------------------------|---------|------------------------|---------|
| pH | 7.38 | pH | 7.60 | pH | 7.37 |
| PaCO ₂ | 30mmHg | PaCO ₂ | 25mmHg | PaCO ₂ | 59 mmHg |
| HCO ₃ | 10mEq/L | HCO ₃ | 24mEq/L | HCO ₃ | 34mEq/L |
| pO ₂ | 60 | pO ₂ | 72 | pO ₂ | 82 |
| Interpretation: | | Interpretation: | | Interpretation: | |
| Metabolic alkalosis | | Respiratory Alkalosis | | Respiratory acidosis | |
| Fully compensated | | Uncompensated | | Fully compensation | |
| Moderate hypoxemia | | Mild hypoxemia | | Normal oxygenation | |

| 4 | | 5 | | 6 | |
|------------------------|---------|------------------------|---------|------------------------|---------|
| pH | 7.56 | pH | 7.34 | pH | 7.15 |
| PaCO ₂ | 40mmHg | PaCO ₂ | 50mmHg | PaCO ₂ | 49 mmHg |
| HCO ₃ | 38mEq/L | HCO ₃ | 31mEq/L | HCO ₃ | 25mEq/L |
| pO ₂ | 59 | pO ₂ | 65 | pO ₂ | 74 |
| Interpretation: | | Interpretation: | | Interpretation: | |
| Metabolic alkalosis | | Respiratory acidosis | | Respiratory acidosis | |
| Uncompensated | | Partial compensation | | Uncompensated | |
| severe hypoxemia | | Moderate Hypoxemia | | Mild hypoxemia | |

| 7 | | 8 | | 9 | |
|------------------------|---------|------------------------|---------|------------------------|-----------|
| pH | 7.20 | pH | 7.54 | pH | 7.42 |
| PaCO ₂ | 30 mmHg | PaCO ₂ | 44mmHg | PaCO ₂ | 38mmHg |
| HCO ₃ | 18mEq/L | HCO ₃ | 36mEq/L | HCO ₃ | 25.3mEq/L |
| pO ₂ | 55 | pO ₂ | 64 | pO ₂ | 92 |
| Interpretation: | | Interpretation: | | Interpretation: | |
| Metabolic acidosis | | Metabolic alkalosis | | Acid base is balanced | |
| Partially compensated | | Uncompensated | | Normal oxygenation | |
| Severe hypoxemia | | Moderate hypoxemia | | | |

| 10 | | 11 | | 12 | |
|------------------------|---------|------------------------|---------|------------------------|-----------|
| pH | 7.31 | pH | 7.27 | pH | 7.55 |
| PaCO ₂ | 33mmHg | PaCO ₂ | 35mmHg | PaCO ₂ | 34mmHg |
| HCO ₃ | 16mEq/L | HCO ₃ | 10mEq/L | HCO ₃ | 16.8mEq/L |
| pO ₂ | 68 | pO ₂ | 78 | pO ₂ | 91 |
| Interpretation: | | Interpretation: | | Interpretation: | |
| Metabolic acidosis | | Metabolic acidosis | | Respiratory alkalosis | |
| Partial compensation | | Uncompensated | | Partial compensation | |
| Moderate hypoxemia | | Mild hypoxemia | | Normal oxygenation | |