

## Instructional Module 7: ABG Practice 1

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| 1                        | 2                        | 3                         |
|--------------------------|--------------------------|---------------------------|
| pH 7.38                  | pH 7.60                  | pH 7.37                   |
| PaCO <sub>2</sub> 30mmHg | PaCO <sub>2</sub> 25mmHg | PaCO <sub>2</sub> 59 mmHg |
| HCO <sub>3</sub> 10mEq/L | HCO <sub>3</sub> 24mEq/L | HCO <sub>3</sub> 34mEq/L  |
| pO <sub>2</sub> 60       | pO <sub>2</sub> 72       | pO <sub>2</sub> 82        |
| <b>Interpretation:</b>   | <b>Interpretation:</b>   | <b>Interpretation:</b>    |
| Metabolic Acidosis       | Respiratory Alkalosis    | Respiratory Acidosis      |
| Full Compensation        | No compensation          | Full compensation         |
| Severe Hypoxemia         | Mild Hypoxemia           | Normal O <sub>2</sub>     |

| 4                        | 5                        | 6                         |
|--------------------------|--------------------------|---------------------------|
| pH 7.56                  | pH 7.34                  | pH 7.15                   |
| PaCO <sub>2</sub> 40mmHg | PaCO <sub>2</sub> 50mmHg | PaCO <sub>2</sub> 49 mmHg |
| HCO <sub>3</sub> 38mEq/L | HCO <sub>3</sub> 31mEq/L | HCO <sub>3</sub> 25mEq/L  |
| pO <sub>2</sub> 59       | pO <sub>2</sub> 65       | pO <sub>2</sub> 74        |
| <b>Interpretation:</b>   | <b>Interpretation:</b>   | <b>Interpretation:</b>    |
| Metabolic Alkalosis      | Respiratory Acidosis     | Respiratory Acidosis      |
| No Compensation          | Partial compensation     | No compensation           |
| Severe Hypoxemia         | Moderate Hypoxemia       | Mild hypoxemia            |

| 7                         | 8                        | 9                          |
|---------------------------|--------------------------|----------------------------|
| pH 7.20                   | pH 7.54                  | pH 7.42                    |
| PaCO <sub>2</sub> 30 mmHg | PaCO <sub>2</sub> 44mmHg | PaCO <sub>2</sub> 38mmHg   |
| HCO <sub>3</sub> 18mEq/L  | HCO <sub>3</sub> 36mEq/L | HCO <sub>3</sub> 25.3mEq/L |
| pO <sub>2</sub> 55        | pO <sub>2</sub> 64       | pO <sub>2</sub> 92         |
| <b>Interpretation:</b>    | <b>Interpretation:</b>   | <b>Interpretation:</b>     |
| Metabolic Acidosis        | Metabolic Alkalosis      | Normal ABGs                |
| Partial compensation      | No compensation          |                            |
| Severe Hypoxemia          | Moderate Hypoxemia       | Normal O <sub>2</sub>      |

| 10                       | 11                       | 12                         |
|--------------------------|--------------------------|----------------------------|
| pH 7.31                  | pH 7.27                  | pH 7.55                    |
| PaCO <sub>2</sub> 33mmHg | PaCO <sub>2</sub> 35mmHg | PaCO <sub>2</sub> 34mmHg   |
| HCO <sub>3</sub> 16mEq/L | HCO <sub>3</sub> 10mEq/L | HCO <sub>3</sub> 16.8mEq/L |
| pO <sub>2</sub> 68       | pO <sub>2</sub> 78       | pO <sub>2</sub> 91         |
| <b>Interpretation:</b>   | <b>Interpretation:</b>   | <b>Interpretation:</b>     |
| Metabolic Acidosis       | Metabolic acidosis       | Respiratory Alkalosis      |
| Partial compensation     | No compensation          | Partial compensation       |
| Moderate Hypoxemia       | Mild hypoxemia           | Normal O <sub>2</sub>      |