

Instructional Module 7: ABG Practice 1

7.35-7.45
35.45
22-24

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| 1 | | 2 | | 3 | |
|------------------------|------------------|------------------------|------------------|------------------------|------------------|
| pH | 7.38 <i>n ↓</i> | pH | 7.60 <i>↑</i> | pH | 7.37 |
| PaCO2 | 30mmHg <i>↓</i> | PaCO2 | 25mmHg <i>↓</i> | PaCO2 | 59 mmHg <i>↑</i> |
| HCO3 | 10mEq/L <i>↓</i> | HCO3 | 24mEq/L <i>n</i> | HCO3 | 34mEq/L <i>↑</i> |
| pO2 | 60 <i>mod</i> | pO2 | 72 <i>mild</i> | pO2 | 82 <i>↑</i> |
| Interpretation: | | Interpretation: | | Interpretation: | |
| Metabolic acidosis | | Respiratory alkalosis | | Respiratory acidosis | |
| Moderate hypoxemia | | Mild hypoxemia | | Normal oxygen | |
| Fully compensated | | Uncompensated | | Fully compensated | |

| 4 | | 5 | | 6 | |
|------------------------|------------------|------------------------|------------------|------------------------|------------------|
| pH | 7.56 <i>↑</i> | pH | 7.34 <i>↓</i> | pH | 7.15 <i>↓</i> |
| PaCO2 | 40mmHg <i>n</i> | PaCO2 | 50mmHg <i>↑</i> | PaCO2 | 49 mmHg <i>↑</i> |
| HCO3 | 38mEq/L <i>↑</i> | HCO3 | 31mEq/L <i>↑</i> | HCO3 | 25mEq/L |
| pO2 | 59 <i>severe</i> | pO2 | 65 | pO2 | 74 <i>mild</i> |
| Interpretation: | | Interpretation: | | Interpretation: | |
| Metabolic alkalosis | | Respiratory acidosis | | Respiratory acidosis | |
| Severe hypoxemia | | Moderate hypoxemia | | Mild hypoxemia | |
| Uncompensated | | Partial compensation | | Uncompensated | |

| 7 | | 8 | | 9 | |
|------------------------|------------------|------------------------|------------------|------------------------|--------------------|
| pH | 7.20 <i>↓</i> | pH | 7.54 <i>↑</i> | pH | 7.42 <i>n</i> |
| PaCO2 | 30 mmHg <i>↓</i> | PaCO2 | 44mmHg <i>n</i> | PaCO2 | 38mmHg <i>n</i> |
| HCO3 | 18mEq/L <i>↓</i> | HCO3 | 36mEq/L <i>↑</i> | HCO3 | 25.3mEq/L <i>n</i> |
| pO2 | 55 <i>severe</i> | pO2 | 64 <i>mod</i> | pO2 | 92 <i>n</i> |
| Interpretation: | | Interpretation: | | Interpretation: | |
| Metabolic acidosis | | Metabolic alkalosis | | Normal | |
| Severe hypoxemia | | Moderate hypoxemia | | | |
| Partial compensation | | Uncompensated | | | |

| 10 | | 11 | | 12 | |
|------------------------|------------------|------------------------|------------------|------------------------|--------------------|
| pH | 7.31 <i>↓</i> | pH | 7.27 <i>↓</i> | pH | 7.55 <i>↑</i> |
| PaCO2 | 33mmHg | PaCO2 | 35mmHg | PaCO2 | 34mmHg <i>↓</i> |
| HCO3 | 16mEq/L <i>↓</i> | HCO3 | 10mEq/L <i>↓</i> | HCO3 | 16.8mEq/L <i>↓</i> |
| pO2 | 68 <i>mod</i> | pO2 | 78 <i>mild</i> | pO2 | 91 <i>n</i> |
| Interpretation: | | Interpretation: | | Interpretation: | |
| Metabolic acidosis | | Metabolic acidosis | | Respiratory alkalosis | |
| Moderate hypoxemia | | Mild hypoxemia | | Normal oxygen | |
| Partial compensation | | Uncompensated | | Partial compensation | |

