

Instructional Module 7: ABG Practice 1

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<p>1 Acid</p> <p>pH ↓ 7.38</p> <p>PaCO₂ ↓ 30 mmHg</p> <p>HCO₃ ↓ 10 mEq/L</p> <p>pO₂ 60</p>	<p>2 Alk</p> <p>pH → 7.60</p> <p>PaCO₂ ↓ 25 mmHg</p> <p>HCO₃ 24 mEq/L</p> <p>pO₂ 72</p>	<p>3 Acid</p> <p>pH ↓ 7.37</p> <p>PaCO₂ ↑ 59 mmHg</p> <p>HCO₃ ↑ 34 mEq/L</p> <p>pO₂ 82</p>
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Interpretation:
 fully compensated
 metabolic Acidosis
 Severe hypoxemia

Interpretation:
 uncompensated
 Respiratory Alkalosis
 mild hypoxemia

Interpretation:
 fully compensated
 Respiratory Acidosis
 Normal oxygen

<p>4 Alk</p> <p>pH ↑ 7.56</p> <p>PaCO₂ ↓ 40 mmHg</p> <p>HCO₃ ↑ 38 mEq/L</p> <p>pO₂ 59</p>	<p>5 Acid</p> <p>pH ↓ 7.34</p> <p>PaCO₂ ↑ 50 mmHg</p> <p>HCO₃ ↑ 31 mEq/L</p> <p>pO₂ 65</p>	<p>6 Acid</p> <p>pH ↓ 7.15</p> <p>PaCO₂ ↑ 49 mmHg</p> <p>HCO₃ 25 mEq/L</p> <p>pO₂ 74</p>
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Interpretation:
 uncompensated
 metabolic Alkalosis
 Severe hypoxemia

Interpretation:
 Partial compensation
 Respiratory Acid
 moderate hypoxemia

Interpretation:
 uncompensated
 Respiratory Acidosis
 mild hypoxemia

<p>7 Acid</p> <p>pH ↓ 7.20</p> <p>PaCO₂ ↓ 30 mmHg</p> <p>HCO₃ ↓ 18 mEq/L</p> <p>pO₂ 55</p>	<p>8 Alk</p> <p>pH ↑ 7.54</p> <p>PaCO₂ ↓ 44 mmHg</p> <p>HCO₃ ↑ 36 mEq/L</p> <p>pO₂ 64</p>	<p>9 Alk</p> <p>pH ↑ 7.42</p> <p>PaCO₂ ↓ 38 mmHg</p> <p>HCO₃ 25.3 mEq/L</p> <p>pO₂ 92</p>
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Interpretation:
 Partial compensation
 metabolic Acidosis
 Severe hypoxemia

Interpretation:
 Partial comp
 metabolic Alkalosis
 moderate hypoxemia

Interpretation:
 fully compensated
 Respiratory Alkalosis
 Normal O₂

<p>10 Acid</p> <p>pH ↓ 7.31</p> <p>PaCO₂ ↓ 33 mmHg</p> <p>HCO₃ ↓ 16 mEq/L</p> <p>pO₂ 68</p>	<p>11 Acid</p> <p>pH ↓ 7.27</p> <p>PaCO₂ ↓ 35 mmHg</p> <p>HCO₃ ↓ 10 mEq/L</p> <p>pO₂ 78</p>	<p>12 Alk</p> <p>pH ↑ 7.55</p> <p>PaCO₂ ↓ 34 mmHg</p> <p>HCO₃ ↓ 6.8 mEq/L</p> <p>pO₂ 91</p>
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Interpretation:

Partial compensation
metabolic Acidosis
moderate hypoxemia

Interpretation:

uncompensated
metabolic Acidosis
mild hypoxemia

Interpretation:

Partial compensation
Respiratory Alkalosis
Normal oxygen