**Corrections for Certified EKG Technician (CET) Study Guide**

The dates listed below indicate when the correction was added to this document. These corrections are also made for subsequent printings and within the tutorial version of the book. Implementation of those changes will vary based on deployment schedules for the tutorial updates and depletion of print stock.

<table>
<thead>
<tr>
<th>Page</th>
<th>Chapter</th>
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<th>Date of Change</th>
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<tbody>
<tr>
<td>15</td>
<td>1</td>
<td>You will clean the skin and trim <strong>or shave</strong> hair if necessary to ensure proper contact between the skin and electrode. <strong>Clipping is preferred over shaving to reduce the chances of skin irritation.</strong></td>
<td>12/20/2018</td>
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<tr>
<td>30</td>
<td>2</td>
<td>Scissors and/or shaving equipment (if hair removal is needed)</td>
<td>12/20/2018</td>
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<tr>
<td>33</td>
<td>2</td>
<td>Slight alterations in placement can need to be considered based on the patient anatomy or skin condition and manufacturer’s instructions.</td>
<td>6/6/2018</td>
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<tr>
<td>33</td>
<td>2</td>
<td><strong>V1</strong>&lt;br&gt;• White lead: Right sternal border, first rib&lt;br&gt;• Red lead: Right sternal border, third rib&lt;br&gt;<strong>V5</strong>&lt;br&gt;• Black lead: Left side, anterior axillary line, fifth rib&lt;br&gt;• Brown lead: Left sternal border, first rib directly opposite the white lead&lt;br&gt;<strong>Ground</strong>&lt;br&gt;• Green lead: Right lower thoracic area anywhere on the rib cage</td>
<td>6/6/2018</td>
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<tr>
<td>39</td>
<td>2</td>
<td>Increasing speeds and incline of treadmill occur every 3 min until the target heart rate (<strong>[220 – age] x 0.85</strong>) is achieved. <strong>Target heart rates are typically calculated by taking 60% to 85% of the maximum heart rate, depending on protocol.</strong></td>
<td>10/18/2018</td>
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<tr>
<td>43</td>
<td>3</td>
<td>It is common practice to use <strong>This scenario uses 70% to calculate the patient’s target heart rate.</strong></td>
<td>10/18/2018</td>
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### 43 3
This is simple way to calculate the target heart rate, but there are many methods. **Target heart rates are typically calculated using between 60% and 85% of the maximum heart rate, depending on protocol.** Be sure to follow your institution’s protocols for calculating target heart rate.

### 66 Quizzes
2. An EKG technician is reviewing an EKG tracing and notices that the calibration mark measures 10 mm high and 10 mm wide. The technician should expect to find that the machine is using which of the following settings?
   - A. 25 mm/second
   - B. 2 mm/mV
   - C. 50 mm/second
   - D. 0.5 mm/mV

### 68 Quizzes
19. Which of the following changes to the settings of the EKG machine will double the height of the tracing it produces?
   - A. 10 mm/mV
   - B. 25 mm/second
   - C. 20 mm/mV
   - D. 50 mm/second

### 80 Quizzes
19. C. Correct. Setting the gain of the EKG machine to 20 mm/mV will double the height, or amplitude, of the tracing produced by the EKG machine.

### 80 Quizzes
2. A. When using the 6-second method, there are six 12 R waves within a 6-second section of the tracing.
   - B. When using the 6-second method, there are six 12 R waves within a 6-second section of the tracing.
   - C. CORRECT. When determining the patient’s heart rate using the 6-second method, identify the number of QRS complexes on the tracing and locate the R waves within the QRS complexes. The number of QRS complexes or R waves that appear in a 6-second section of the tracing should be multiplied by 10. There are 12 R waves in a 6-second section of this tracing. $12 \times 10 = 120/min$
   - D. When using the 6-second method, there are six 12 R waves within a 6-second section of the tracing.