



# Medtronic

Early Defibrillation with the LIFEPAK® 20 Defibrillator/Monitor



# Automated External Defibrillation

Name \_\_\_\_\_ Unit \_\_\_\_\_

Reviewer \_\_\_\_\_ Date \_\_\_\_\_

**This Performance Checklist is a suggested basic assessment of one's ability to operate the LIFEPAK 20 defibrillator/monitor in automated external defibrillation (AED) mode.** This is a limited evaluation and does not cover all the information and skills required to operate this device safely. It is designed to be completed after viewing the appropriate inservice video or observing an equipment demonstration given by a qualified instructor. For complete information, review the Operating Instructions for the device. References to buttons and displayed messages are indicated in CAPITAL LETTERS. A patient simulator is required.

PERFORMANCE CRITERIA	COMPLETE	INCOMPLETE	COMMENTS
<b>1</b> Identifies possible hazards of defibrillation: patient skin burns, operator shock, combustion during oxygen administration and ineffective energy delivery.			
<b>2</b> First rescuer verifies cardiac arrest and starts CPR: <ul style="list-style-type: none"> <li>• Shakes patient and shouts</li> <li>• Activates emergency response system and calls for help</li> <li>• Opens airway and checks breathing</li> <li>• Gives two quick breaths</li> <li>• Checks carotid pulse for 5–10 seconds</li> </ul>			
<b>3</b> Second rescuer brings device to patient's bedside and prepares for defibrillation while first rescuer continues CPR.			
<b>4</b> Presses ON (#1)			
<b>5</b> Prepares patient: <ul style="list-style-type: none"> <li>• Bares patient's chest</li> <li>• Wipes chest clean and dry</li> <li>• Disconnects any equipment that may pose a hazard or become damaged</li> </ul>			
<b>6</b> If using EDGE System™ Electrodes or pre-attached QUIK-COMBO™ electrodes, see step 8. If using FAST-PATCH® disposable defibrillation/ECG electrodes, attach pads to cable and snap <b>firmly</b> .			
<b>7</b> Peels back protective liner carefully, beginning at the cable end and quickly inspects electrode.			
<b>8</b> Applies electrodes by smoothing the electrode from one end to the other removing all air: <ul style="list-style-type: none"> <li>• Sternum electrode (EDGE System Electrodes or QUIK-COMBO electrodes according to diagram, or FAST-PATCH white connector) below patient's right clavicle, lateral to the sternum</li> <li>• Apex electrode (EDGE or QUIK-COMBO electrode with ♥ symbol, or FAST-PATCH red connector) lateral to patient's left nipple with the center of the electrode on the left midaxillary line</li> <li>• Avoiding dressings, ECG electrodes and wounds</li> </ul>			
<b>9</b> Confirms AED therapy cable is attached to lower right front of defibrillator.			
<b>10</b> Attaches electrode cable to AED therapy cable.			

PERFORMANCE CRITERIA	COMPLETE	INCOMPLETE	COMMENTS
<b>11</b> Stops all motion including CPR, clears everyone from patient, then presses ANALYZE (#2).			
<b>12</b> Responds to voice prompts and screen messages ANALYZING NOW, STAND CLEAR by not touching patient, bed or defibrillation cable.			
<b>13</b> Observes screen message and voice prompt: SHOCK ADVISED!			
<b>14</b> Waits while tone indicates AED is charging.			
<b>15</b> Observes screen message and voice prompts: STAND CLEAR, PUSH  (SHOCK, #3) BUTTON!			
<b>16</b> Discontinues oxygen and removes tubing (or bag-valve mask) from bed.			
<b>17</b> States "ALL CLEAR" and observes that all personnel are clear of patient and immediate area.			
<b>18</b> Presses  (SHOCK, #3) BUTTON on AED. Delivers first shock within three minutes of cardiac arrest.			
<b>19</b> Presses ANALYZE (#2) after shock is delivered (or observes auto analyze).			
<b>20</b> Repeats steps #13–20 for up to three stacked shocks if SHOCK ADVISED message appears.			
<b>21</b> Follows CHECK FOR PULSE prompt and palpates for pulse after third shock.			
<b>22</b> No pulse present: <ul style="list-style-type: none"> <li>• Performs CPR for one minute (or duration set by local protocol)</li> <li>• Checks pulse after one minute of CPR</li> <li>• No pulse present; repeats steps #13–20</li> </ul>			
<b>23</b> Observes screen message and voice prompt: NO SHOCK ADVISED! <ul style="list-style-type: none"> <li>• Checks pulse</li> <li>• If no pulse, performs CPR for one minute (or duration set by local protocol)</li> <li>• Checks pulse</li> <li>• No pulse present, presses ANALYZE (#2)*</li> </ul>			
<b>24</b> Presses CODE SUMMARY for event documentation.			
<b>25</b> Presses ON (#1) again to turn defibrillator off.			

\* Local policy will dictate the maximum number of analyses to perform when the screen message is consistently NO SHOCK ADVISED.  
Suggested reading: "Defibrillation: What You Should Know" from Medtronic Physio-Control Corp. MIN 805662-001 / CAT. 26500-000577

## Evaluation and Action Plan

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## General Performance Guidelines

Consider the following issues when determining competency:

- Was defibrillation performed in a safe manner?
- Was the first shock delivered within three minutes of collapse?
- Was the defibrillation algorithm (International Guidelines 2000 or institution protocol) followed?
- Was defibrillation integrated with CPR?
- Was defibrillation treated as a priority over all other treatment?

## Suggested Advanced Performance Scenarios

- Hairy chest
- Single responder
- Motion
- Diaphoretic patient
- Defibrillator charged; charge unwanted
- AED therapy cable incorrectly installed
- Voice and screen message: CONNECT ELECTRODES
- Voice and screen message: MOTION DETECTED! STOP MOTION!

## Optional Activities

Performance Criteria:

- Attaches AED therapy cable to the LIFEPAK 20 defibrillator.
- Locates defibrillator, razor or clippers, electrodes, towels and other miscellaneous equipment in the workplace.
- Demonstrates transfer of care to Advanced Life Support or Code Team.
- Advanced Life Support team member demonstrates manual defibrillation using the LIFEPAK 20 defibrillator.

## Evaluation and Action Plan

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