



# Suggestions for Performance Evaluation

with the LIFEPAK® 12 Defibrillator/Monitor

## ECG Monitoring, Defibrillation and Synchronized Cardioversion with Disposable Therapy Electrodes

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

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

This Performance Evaluation is a suggested assessment of one's ability to operate the LIFEPAK 12 defibrillator/monitor series configured with disposable therapy electrodes. This is a limited evaluation and does not cover all information and skills required to operate the device safely and effectively. This evaluation is based on default settings and 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 LIFEPAK 12 defibrillator/monitor Operating Instructions. References to buttons are in **bold** and screen display messages are indicated in *italics*. A patient simulator is required.

### Monitoring with ECG Cable and ECG Electrodes

PERFORMANCE CRITERIA	COMPLETE	INCOMPLETE	COMMENTS
1. Presses <b>ON</b>			
2. Attaches ECG cable to ECG connector on front of monitor			
3. Prepares patient's skin for electrode placement <ul style="list-style-type: none"> <li>Bares patient's chest</li> <li>Shaves excess hair at electrode site</li> <li>Prepares electrode site with brisk, dry rub</li> </ul>			
4. Applies ECG electrodes <ul style="list-style-type: none"> <li>Attaches an electrode to each ECG lead wire</li> <li>Identifies appropriate electrode sites and applies electrode flat to skin, smoothing tape outwardly and avoiding pressing on the center of the electrode</li> <li>Secures trunk cable clasp to patient's clothing</li> </ul>			
5. Selects or changes ECG lead <ul style="list-style-type: none"> <li>Presses <b>LEAD</b>, while the Lead menu is displayed, presses <b>LEAD</b> again or rotates <b>SELECTOR</b></li> </ul> Or <ul style="list-style-type: none"> <li>Uses <b>SELECTOR</b> to highlight and select channel 1 and then Lead</li> <li>Rotates the <b>SELECTOR</b> to desired ECG lead</li> </ul>			
6. Observes monitor screen			
7. Selects or changes ECG size as needed <ul style="list-style-type: none"> <li>Presses <b>SIZE</b>, while the Size menu is displayed, presses <b>SIZE</b> again or rotates <b>SELECTOR</b></li> </ul> Or <ul style="list-style-type: none"> <li>Uses <b>SELECTOR</b> to highlight and select channel 1 and then Size</li> <li>Rotates <b>SELECTOR</b> to desired ECG size</li> </ul>			
8. Adjusts Systole volume as needed <ul style="list-style-type: none"> <li>Uses <b>SELECTOR</b> to highlight and select HR</li> <li>Selects QRS Volume</li> <li>Rotates <b>SELECTOR</b> to desired volume</li> </ul>			
9. Presses <b>PRINT</b> to obtain ECG printout			

## Monitoring with Disposable Therapy Electrodes

PERFORMANCE CRITERIA	COMPLETE	INCOMPLETE	COMMENTS
1. Presses <b>ON</b>			
2. Prepares patient's skin for therapy electrode placement <ul style="list-style-type: none"> <li>Bares patient's chest</li> <li>Dry patient's skin</li> <li>Shaves excess hair at electrode site</li> </ul>			
3. Applies therapy electrodes in anterior-lateral position <ul style="list-style-type: none"> <li>Places either the ♥ or + therapy electrode lateral to the patient's left nipple in the midaxillary line, with the center of the electrode in the midaxillary line</li> <li>Places the other therapy electrode on the patient's upper right torso, lateral to the sternum and below the clavicle</li> </ul>			
4. Connects therapy electrodes to therapy cable			
5. Selects Paddles lead <ul style="list-style-type: none"> <li>Presses <b>LEAD</b>, while the Lead menu is displayed, presses <b>LEAD</b> again or rotates <b>SELECTOR</b> to select Paddles lead</li> </ul> Or <ul style="list-style-type: none"> <li>Uses <b>SELECTOR</b> to highlight and select channel 1 and then Lead</li> <li>Rotates the <b>SELECTOR</b> to Paddles lead</li> </ul>			
6. Observes monitor screen			
7. Selects or changes ECG size as needed <ul style="list-style-type: none"> <li>Presses <b>SIZE</b>, while the Size menu is displayed, presses <b>SIZE</b> again or rotates <b>SELECTOR</b></li> </ul> Or <ul style="list-style-type: none"> <li>Uses <b>SELECTOR</b> to highlight and select channel 1 and then Size</li> <li>Rotates <b>SELECTOR</b> to desired ECG size</li> </ul>			
8. Presses <b>PRINT</b> to obtain a ECG printout			

## Manual Defibrillation with Disposable Therapy Electrodes

PERFORMANCE CRITERIA	COMPLETE	INCOMPLETE	COMMENTS
1. Confirms patient is in cardiopulmonary arrest; unresponsive, not breathing normally, and without signs of circulation			
2. Presses <b>ON</b>			
3. Prepares patient's skin for therapy electrode placement <ul style="list-style-type: none"> <li>Bares patient's chest</li> <li>Dries patient's skin</li> <li>Shaves excess hair at electrode site</li> <li>Avoids placing therapy electrodes over broken skin</li> </ul>			
4. Applies therapy electrodes to patient in anterior-lateral position <ul style="list-style-type: none"> <li>Places either the ♥ or + therapy electrode lateral to the patient's left nipple in the midaxillary line, with the center of the electrode in the midaxillary line</li> <li>Places the other therapy electrode on the patient's upper right torso, lateral to the sternum and below the clavicle</li> </ul>			
5. Connects therapy electrodes to therapy cable			

## Manual Defibrillation with Disposable Therapy Electrodes (Cont'd)

PERFORMANCE CRITERIA	COMPLETE	INCOMPLETE	COMMENTS
6. Selects Paddles lead <ul style="list-style-type: none"> <li>Presses <b>LEAD</b>, while the Lead menu is displayed, presses <b>LEAD</b> again or rotates <b>SELECTOR</b> to select Paddles lead</li> </ul> Or <ul style="list-style-type: none"> <li>Uses <b>SELECTOR</b> to highlight and select channel 1 and then Lead</li> <li>Rotates the <b>SELECTOR</b> to Paddles lead</li> </ul>			
7. Presses <b>ENERGY SELECT</b> <ul style="list-style-type: none"> <li>Verifies desired energy</li> </ul>			
8. Presses <b>CHARGE</b>			
9. Confirms ECG rhythm and available energy <ul style="list-style-type: none"> <li>Reads screen and screen overlay</li> </ul>			
10. States "All clear" and observes all personal are clear of patient, bed, and equipment connected to the patient			
11. Presses <b>SHOCK</b> button			
12. Observes patient and ECG rhythm, repeating procedure if necessary			

## Synchronized Cardioversion with Disposable Therapy Electrodes

PERFORMANCE CRITERIA	COMPLETE	INCOMPLETE	COMMENTS
1. Presses <b>ON</b>			
2. Attaches ECG cable to ECG connector on front of monitor			
3. Selects lead II or lead with the greatest QRS complex amplitude (positive or negative)			
4. Press <b>SYNC</b> . Confirms the SYNC LED blinks with each detected QRS complex			
5. Observes ECG rhythm confirms sense markers (▼) appear near the middle of each QRS complex. If they do not appear: <ul style="list-style-type: none"> <li>Adjusts ECG size</li> <li>Selects another ECG lead</li> </ul>			
6. Prepares patient's skin for electrode placement <ul style="list-style-type: none"> <li>Bares patient's chest</li> <li>Shaves excess hair at electrode site</li> <li>Prepares electrode site with brisk, dry rub</li> </ul>			
7. Connects therapy electrodes to therapy cable			
8. Applies therapy electrodes in anterior-lateral position <ul style="list-style-type: none"> <li>Places either the ♥ or + therapy electrode lateral to the patient's left nipple in the midaxillary line, with the center of the electrode in the midaxillary line</li> <li>Places the other therapy electrode on the patient's upper right torso, lateral to the sternum and below the clavicle</li> </ul>			
9. Presses <b>ENERGY SELECT</b> <ul style="list-style-type: none"> <li>Verifies desired energy</li> </ul>			
10. Presses <b>CHARGE</b>			

## Synchronized Cardioversion with Disposable Therapy Electrodes (Cont'd)

PERFORMANCE CRITERIA	COMPLETE	INCOMPLETE	COMMENTS
11. Confirms ECG rhythm and available energy <ul style="list-style-type: none"> <li>• Reads screen and screen overlay</li> </ul>			
12. States "All clear" and observes all personal are clear of patient, bed, and equipment connected to the patient			
13. Presses and holds <b>SHOCK</b> button			
14. Releases <b>SHOCK</b> button after discharge occurs			
15. Observes patient and ECG rhythm, repeating procedure if necessary			

### General Performance Guidelines

Consider the following issues when evaluating performance:

- Was defibrillation performed in a safe manner?
- Was the defibrillation algorithm followed?
- Was defibrillation integrated with CPR?

### Suggested Advanced Performance Scenarios

- Diaphoretic patient
- Defibrillator charged; remove charge
- Describes the possible cause and corrective actions for the following screen messages:
  - *CONNECT CABLE*
  - *ABNORMAL ENERGY DELIVERY*
- Disarming message appears
- Patient goes into v-fib while device in synch mode for cardioversion

### Optional Activities

Performance Evaluation:

- Removes therapy cable and attaches hard paddles to the LIFEPAK 12 defibrillator.
- Attaches therapy cable to the LIFEPAK 12 defibrillator.
- Locates defibrillator, razor or clippers, towels, and other miscellaneous equipment in the workplace.
- Demonstrates transfer of care to Advanced Cardiac Life Support Code Team.
- ACLS code team member demonstrates manual defibrillation.

### Evaluation and Action Plan

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