

# Suggestions for performance evaluation

with the **LIFEPAK® 20/20e** Defibrillator/Monitor

## ECG monitoring, defibrillation and synchronized cardioversion with hands-free electrodes

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

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

**This Performance Evaluation is a suggested assessment of one's ability to operate the LIFEPAK 20/20e defibrillator/monitor configured with the hands-free electrodes. This evaluation does not cover all the information and skills required to operate the device safely and effectively.** It is designed to be completed after observing an equipment demonstration given by a qualified instructor. For complete information, review the Operating Instructions for the device. References to buttons are indicated in **bold** and display messages are indicated in *italics*. Patient simulator use may assist in meeting performance criteria.

### Maintenance

Performance criteria	Complete	Incomplete	Comments
1. Locates equipment and accessories, Operator's Checklist and Operating Instructions.			
2. Demonstrates equipment tests according to manual daily test procedure.			

### 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: <ul style="list-style-type: none"> <li>Bares patient's chest.</li> <li>Prepares electrode sites with brisk dry rub.</li> <li>Describes additional preparation needed for patient with excessive hair, oily or damp skin.</li> </ul>			
4. Applies ECG electrodes: <ul style="list-style-type: none"> <li>Confirms package is sealed and use-by date has not passed.</li> <li>Attaches an electrode to each lead wire.</li> <li>Inspects electrode gel for moisture content &amp; to ensure gel is intact.</li> <li>Identifies appropriate electrode sites for 3-wire cable in upper right, upper left, lower left torso areas; or 5-wire cable in upper right and left, lower right and left torso, and (c) in V4 location (or as directed by local protocol).</li> <li>Applies electrode flat to skin, smoothing tape outwardly and avoiding pressing on center of electrode.</li> <li>Secures cable clasp to patient's clothing (optional).</li> </ul>			
5. Selects or changes desired lead and ECG size on monitor screen.			
6. Presses <b>PRINT</b> to obtain an ECG printout.			

## Monitoring with a hands-free electrodes

Performance criteria	Complete	Incomplete	Comments
1. Presses <b>ON</b> .			
2. Selects <b>PADDLES</b> lead.			
3. Prepares patient. <ul style="list-style-type: none"> <li>Bares patient's chest.</li> <li>Prepares electrode sites with brisk dry rub.</li> <li>Describes additional preparation needed for patient with excessive hair, oily or damp skin.</li> </ul>			
4. Checks therapy electrodes: <ul style="list-style-type: none"> <li>Confirms package is sealed and date has not expired.</li> <li>Inspects gel for moisture content and to assure gel is intact.</li> </ul>			
5. Attaches therapy electrodes to therapy cable; confirms therapy connection to the device.			
6. Applies therapy electrodes flat to the skin. Smooths outwardly.			
7. Describes or demonstrates anterior-posterior placement: <ul style="list-style-type: none"> <li>Avoids dressings, ECG electrodes and wounds.</li> </ul>			
8. Describes or demonstrates anterior-lateral placement.			
9. Observes monitor screen to evaluate patient's rhythm.			
10. Adjusts ECG size, if necessary.			
11. Presses <b>PRINT</b> to obtain an ECG printout.			

## Manual defibrillation with hands-free electrodes

Performance criteria	Complete	Incomplete	Comments
1. Presses <b>ON</b> .			
2. Identifies electrode sites on the patient using either the anterior-lateral or anterior-posterior site.			
3. Prepares patient. <ul style="list-style-type: none"> <li>Bares patient's chest.</li> <li>Prepares electrode sites with brisk dry rub.</li> <li>Describes additional preparation for patient with excessive hair, oily or damp skin.</li> <li>Disconnects equipment which may pose a hazard or become damaged.</li> </ul>			
4. Connects therapy electrodes to therapy cable; confirms cable connection to the device.			
5. Applies therapy electrodes to patient.			
6. Presses <b>ENERGY SELECT</b> .			
7. Presses <b>CHARGE</b> .			
8. States "ALL CLEAR" and observes all personnel are clear of patient, bed, and equipment connected to patient.			
9. Confirms ECG rhythm and available energy.			
10. Presses the <b>SHOCK</b> button to discharge energy to patient or presses the Speed Dial to remove the charge.			
11. Observes patient and ECG rhythm.			
12. If an additional shock is necessary, repeat the procedure beginning at Step 6.			
13. Presses <b>CODE SUMMARY</b> for documentation.			
14. Presses <b>ON</b> to turn power off.			

## Synchronized cardioversion with hands-free electrodes

Performance criteria	Complete	Incomplete	Comments
1. Presses <b>ON</b> .			
2. Prepares patient. <ul style="list-style-type: none"> <li>• Explains procedure.</li> <li>• States policy and protocol pertaining to written consent and sedation.</li> <li>• Bares patient's chest.</li> <li>• Wipes electrode sites clean and dry. Does not use alcohol, benzoin or antiperspirant.</li> <li>• Describes additional preparation for patient with excessive hair, oily or damp skin.</li> <li>• Disconnects equipment which may pose a hazard or become damaged.</li> </ul>			
3. Attaches ECG cable and ECG electrodes as described above.			
4. Selects Lead II or lead with greatest QRS complex amplitude (positive or negative).			
5. Presses <b>SYNC</b> .			
6. Observes the ECG rhythm. Confirms a triangle sense marker (▼) appears near the middle of each QRS complex. Selects another lead if sense markers do not appear or are displayed in the wrong location.			
7. Connects therapy electrodes to the therapy cable and confirms cable is connected to defibrillator.			
8. Applies therapy electrodes to the patient in the anterior-lateral or anterior-posterior position, preparing the patient's skin as previously noted.			
9. Presses <b>ENERGY SELECT</b> .			
10. Presses <b>CHARGE</b> .			
11. Makes certain all personnel, including operator, stand clear of patient, bed and any equipment connected to patient.			
12. Confirms ECG rhythm and confirms available energy.			
13. Presses and holds <b>SHOCK</b> button until discharge occurs with next detected QRS complex and releases <b>SHOCK</b> button.			
14. Observes patient and ECG rhythm. Repeats procedure as necessary.			

