

Suggestions for performance evaluation

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

ECG Monitoring, defibrillation and synchronized cardioversion with standard adult paddles

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 standard adult paddles. 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 screen 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 ON .			
2. Attaches ECG cable to ECG connector on front of monitor.			
3. Prepares patient: <ul style="list-style-type: none"> Bares patient's chest. Prepares electrode sites with brisk dry rub. Describes additional preparation needed for patient with excessive hair, oily or damp skin. 			
4. Applies ECG electrodes: <ul style="list-style-type: none"> Confirms package is sealed and use by date has not passed. Attaches an electrode to each lead wire. Inspects electrode gel for moisture content. 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. Applies electrode flat to skin, smoothing tape outwardly and avoiding pressing on center of electrode. Secures cable clasp to patient's clothing (optional). 			
5. Selects or changes desired lead and ECG size on monitor screen.			
6. Presses PRINT to obtain and ECG printout.			

Monitoring with standard defibrillation paddles

Performance criteria	Complete	Incomplete	Comments
1. Presses ON .			
2. Selects PADDLES lead.			
3. Prepares patient: <ul style="list-style-type: none"> • Bares patient's chest. • Prepares paddle sites with brisk dry rub. • Describes additional preparation needed for patient with excessive hair, oily or damp skin. 			
4. Applies conductive gel, gel pad or appropriate conductive medium over entire paddle electrode surface.			
5. Places paddles firmly: <ul style="list-style-type: none"> • Sternum (anterior) paddle below right clavicle, lateral to sternum. • Apex (lateral) paddle lateral to left nipple with the center of the paddle on the midaxillary line. 			
6. Observes monitor screen to evaluate patient's rhythm.			
7. Presses PRINT to start recording and again to obtain an ECG printout.			

Manual defibrillation with standard adult paddles

Performance criteria	Complete	Incomplete	Comments
1. Presses ON .			
2. Prepares patient: <ul style="list-style-type: none"> • Bares patient's chest. • Prepares paddle sites with brisk dry rub. • Describes additional preparation for patient with excessive hair, oily or damp skin. • Disconnects equipment which may pose a hazard or become damaged. 			
3. Applies conductive gel, gel pad or appropriate conductive medium over entire paddle electrode surface (may describe for demonstration).			
4. Places paddles firmly: <ul style="list-style-type: none"> • Sternum (anterior) paddle below right clavicle, lateral to sternum. • Apex (lateral) paddle lateral to left nipple with the center of the paddle on the midaxillary line. • Avoiding dressings, ECG electrodes and wounds. • Describes anterior/posterior paddle placement. 			
5. Verifies cardiac arrest rhythm of ventricular fibrillation or pulseless ventricular tachycardia.			
6. Presses ENERGY SELECT .			
7. Presses CHARGE on APEX paddle or on front panel of device.			
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: <ul style="list-style-type: none"> • Reads screen and screen overlay. 			
10. Describes discharging defibrillator by simultaneously pressing both SHOCK buttons on the paddles after charge complete. Removes charge by pressing SPEED DIAL or ENERGY SELECT for performance practice.			
11. Observes patient and ECG rhythm to determine results.			
12. Prepares for additional countershocks if needed by repeating steps #6–12.			
13. Presses CODE SUMMARY for documentation.			
14. Presses ON to turn power off.			
15. Cleans and stores paddles.			

Synchronized cardioversion with standard adult paddles

Performance criteria	Complete	Incomplete	Comments
1. Prepares patient: <ul style="list-style-type: none"> • Explains procedure. • States policy and protocol pertaining to written consent and sedation. • Bares patient's chest. • Wipes electrode sites clean and dry. Does not use alcohol, benzoin or antiperspirant. • Describes additional preparation for patient with excessive hair, oily or damp skin. • Disconnects equipment which may pose a hazard or become damaged. 			
2. Presses ON .			
3. Attaches ECG cable and ECG electrodes.			
4. Selects Lead II or lead with greatest QRS complex amplitude (positive or negative).			
5. Press SYNC .			
6. Confirms sense marker (▼) appears on QRS on monitor screen and on each detected QRS complex.			
7. Assures accuracy of sense marker on QRS: <ul style="list-style-type: none"> • Confirms sense marker (▼) appears on or near the middle of each QRS complex. • If sense marker does not appear or is displayed in the wrong location, selects another lead. 			
8. Applies conductive gel, gel pad or appropriate conductive medium over entire paddle electrode surface (may describe for demonstration).			
9. Places paddles firmly: <ul style="list-style-type: none"> • Sternum (anterior) paddle below right clavicle, lateral to sternum. • Apex (lateral) paddle lateral to left nipple with the center of the paddle on the midaxillary line. • Avoiding dressings, ECG electrodes and wounds. • Describes anterior/posterior paddle placement. 			
10. Presses ENERGY SELECT .			
11. Presses CHARGE on APEX paddle or front of device.			
12. States "All Clear" and observes all personnel are clear of patient, bed and equipment connected to patient.			
13. Presses SHOCK (if patient simulator is in use). For performance practice removes charge by pressing SPEED DIAL or ENERGY SELECT .			
14. Describes discharging defibrillator by <u>simultaneously pressing and holding both</u> SHOCK buttons on the paddles until discharge occurs on next detected QRS complex, then release buttons. Removes charge by pressing SPEED DIAL or ENERGY SELECT for performance practice.			
15. Observes patient and ECG rhythm.			
16. Prepares for repeat cardioversion as needed by repeating steps #10–15.			
17. Presses CODE SUMMARY for documentation.			
18. Presses ON to power off. Cleans and stores paddles.			

