

Suggestions for Performance Evaluation

with the LIFEPAK® 20 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 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 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 are indicated in **bold and display messages are indicated in *italics*. Performance Checklists require appropriate patient simulator.**

Maintenance

PERFORMANCE EVALUATION	COMPLETE	INCOMPLETE	COMMENTS
1. Locates equipment and accessories, operator's checklist and Operating Instructions			
2. Demonstrates equipment tests according to daily test procedure			

Monitoring with ECG Cable and ECG Electrodes

PERFORMANCE EVALUATION	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 & to assure gel is intact • 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 			
5. Selects or changes desired lead and ECG size on monitor screen <ul style="list-style-type: none"> • Highlights and selects Channel 1 by rotating SPEED DIAL and pressing • Selects Lead by pressing LEAD button or by rotating SPEED DIAL to desired lead and pressing • Selects Size by pressing SIZE button or by rotating SPEED DIAL to desired size and pressing 			
6. Adjusts volume <ul style="list-style-type: none"> • Presses HOME SCREEN • Uses SPEED DIAL to highlight and select <i>HR</i> • Selects <i>QRS Volume</i> • Rotates SPEED DIAL to desired volume and presses knob to set volume 			

Monitoring with ECG Cable and ECG Electrodes (cont.)

PERFORMANCE EVALUATION	COMPLETE	INCOMPLETE	COMMENTS
7. Presses PRINT to obtain an ECG printout			
8. Describes proper care of ECG records			
9. Presses ON again to turn power off			
10. Removes electrodes from skin			

Monitoring with a Hands-Free Electrodes

PERFORMANCE EVALUATION	COMPLETE	INCOMPLETE	COMMENTS
1. Presses ON			
2. Selects PADDLES lead <ul style="list-style-type: none"> Highlights and selects Channel 1 by rotating and pressing SPEED DIAL Selects lead by rotating SPEED DIAL through the ECG leads to PADDLES lead and pressing to highlight choice 			
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. Checks therapy electrodes <ul style="list-style-type: none"> Confirms package is sealed and date has not expired Inspects gel for moisture content and to assure gel is intact 			
5. Attaches therapy electrodes to therapy cable; confirms therapy connection to the device			
6. Applies therapy electrodes by smoothing from one end to the other firmly pressing to remove all air			
7. Describes or demonstrates anterior-posterior placement <ul style="list-style-type: none"> Anterior electrode on left precordium between xyphoid process and left nipple at apex of the heart, avoiding nipple and diaphragm Posterior electrode below left scapula, lateral to spine at heart level Avoids dressings, ECG electrodes and wounds 			
8. Describes or demonstrates anterior-lateral placement: <ul style="list-style-type: none"> Lateral (apex) electrode lateral to left nipple with the center of the electrode on the midaxillary line Anterior electrode below the right clavicle lateral to sternum 			
9. Observes monitor screen to evaluate patient's rhythm			
10. Adjusts ECG size <ul style="list-style-type: none"> Highlights Channel 1 and selects by rotating SPEED DIAL and pressing Selects Size by rotating SPEED DIAL to desired size and pressing 			
11. Presses PRINT to start recording and again to stop recording of ECG			
12. Presses ON to turn power off			
13. Describes proper care of ECG records			

Manual Defibrillation with Hands-Free Electrodes

PERFORMANCE EVALUATION	COMPLETE	INCOMPLETE	COMMENTS
1. Identifies possible defibrillation hazards: patient skin burns, operator shock, combustion during oxygen use, and ineffective energy delivery			
2. Confirm patient is in cardiopulmonary arrest; patient unresponsive, not breathing normally and no signs of circulation.			
3. Presses ON to turn power on			
4. 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 			
5. Checks use by date on electrode package			
6. Applies therapy electrodes to therapy cable; confirm cable connection to the device			
7. Peels off protective liner carefully, beginning at the cable end and quickly inspects electrode			
8. Applies electrodes by smoothing from one end to the other, firmly pressing to remove all air			
9. Describes or demonstrates anterior-posterior placement <ul style="list-style-type: none"> Anterior electrode on left precordium between xyphoid process and left nipple at apex of the heart, avoiding nipple and diaphragm Posterior electrode below left scapula, lateral to spine at heart level Avoids dressings, ECG electrodes and wounds 			
10. Describes or demonstrates anterior-lateral placement <ul style="list-style-type: none"> Lateral (apex) electrode lateral to left nipple with center of electrode on midaxillary line Anterior electrode below right clavicle lateral to sternum 			
11. Presses ENERGY SELECT			
12. Presses CHARGE			
13. Confirms ECG rhythm and available energy <ul style="list-style-type: none"> Reads screen and screen overlay 			
14. States "ALL CLEAR" and observes all personnel are clear of patient, bed, and equipment connected to patient			
15. Presses SHOCK (if patient simulator is in use) For performance practice removes charge by pressing SPEED DIAL or toggling ENERGY SELECT			
16. Observes patient and ECG rhythm			
17. If an additional shock is necessary, repeat the procedure beginning at Step 11			
18. Presses CODE SUMMARY for documentation			
19. Presses ON to turn power off			
20. Describes proper care of ECG records			
21. Removes electrodes by supporting patient's skin with one hand and slowly peeling the electrode back at 180 degree angle			

Synchronized Cardioversion with Hands-Free Electrodes

PERFORMANCE EVALUATION	COMPLETE	INCOMPLETE	COMMENTS
1. Defines synchronized cardioversion <ul style="list-style-type: none"> Identifies cardiac rhythms and indications for cardioversion Describes synchronization 			
2. Identifies possible cardioversion hazards: patient skin burns, operator shock, combustion during oxygen use, ineffective energy delivery, improper synchronization and discharge on the T wave			
3. 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 			
4. Presses ON			
5. Attaches ECG cable and ECG electrodes			
6. Selects Lead II or lead with greatest QRS complex amplitude (positive or negative)			
7. Checks use-by date on electrode package			
8. Connects therapy electrodes to therapy cable; confirms cable connection to the device			
9. Peels off protective liner carefully, beginning at the cable and quickly inspects electrode			
10. Applies electrodes by smoothing from one end to the other, firmly pressing to remove all air			
11. Describes or demonstrates anterior-posterior placement <ul style="list-style-type: none"> Anterior electrode on left precordium between xyphoid process and left nipple at apex of the heart, avoiding nipple and diaphragm Posterior electrode below left scapula, lateral to spine at heart level Avoids dressings, ECG electrodes and wounds 			
12. Describes or demonstrates anterior-lateral placement <ul style="list-style-type: none"> Lateral (apex) electrode lateral to left nipple with the center of electrode on the midaxillary line Anterior electrode below the right clavicle lateral to sternum 			
13. Presses SYNC			
14. Confirms sense markers (▼) appear on QRS on monitor screen and on each detected QRS complex			
15. Assures accuracy of sense marker on QRS <ul style="list-style-type: none"> Confirms sense marker (▼) appears near the middle of each QRS complex If sense markers do not appear or appear in wrong locations, adjusts ECG size and/or select another lead 			
16. Presses ENERGY SELECT to increase energy or rotates SPEED DIAL to desired joule level setting			
17. Presses CHARGE			
18. Confirms ECG rhythm, sense marker location and available energy			
19. States "ALL CLEAR" and observes all personnel including the operator are clear of patient, bed and equipment connected to the patient			

Synchronized Cardioversion with Hands-Free Electrodes (cont.)

PERFORMANCE EVALUATION	COMPLETE	INCOMPLETE	COMMENTS
20. Discharges defibrillator by <u>pressing and holding</u> SHOCK button until discharge occurs on next detected QRS complex. For performance practice may remove charge by pressing SPEED DIAL or toggling ENERGY SELECT			
21. Observes patient and ECG rhythm			
22. Repeat procedure from Step 13 if necessary			
23. Presses CODE SUMMARY for documentation			
24. Presses ON to turn power off			
25. Describes proper care of ECG records			

Evaluation and Action Plan



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