



# Standard Operating Procedure

SITE: Southern Illinois Healthcare	EFFECTIVE DATE: 04/22/2020
SUBJECT: LUCAS 3 Device Battery Maintenance and Charging Procedure	REVISION DATE:
DOCUMENT NUMBER:	LOCATION OF TEMPLATE:
AUTHORIZED BY: Tressa Furlow MSN, RN	DATE: 4/22/2020
SOP OWNER: : Garrett Burton, System Director of Emergency	

**PURPOSE:** The LUCAS 3 Device is intended to provide automated mechanical external chest compressions for patients in cardiac arrest and no further contraindications.

**SCOPE:**

**ASSOCIATED DOCUMENTS & PROCEDURES:**

**DEFINITIONS:**

**PROCEDURE: BATTERY MAINTENANCE AND CHARGING PROCEDURE OF THE LUCAS 3 DEVICE**

Activity / Task	
1	Each LUCAS 3 device will have a minimum of 2 batteries in conjunction with an external power source. One battery should be in the Lucas device and kept fully charged. The other (second) battery should be also charged brought with the ED charge Nurse to all Code Blues and all Critical Assessment Calls.
2	Battery indicator lights are as follows: 3 green LEDs show fully charged, 2 green LEDs show 2/3 charged, and 1 green LED is 1/3 charged. One intermittent Yellow LED and alarm during operation: low battery, 10minutes left of operating capacity remaining One intermittent Red LED and alarm signal; battery is empty and must be recharged, or battery is too hot. Note: When LED to the far right is yellow and not green, Battery has reached end of service life. Must replace with new battery.
3	Two ways to charge battery: First way is to place the battery in the battery charger and connect to wall outlet, the second way is to keep the battery in the Top of the LUCAS device and connect to the wall outlet with the external power source.
4	The Battery must be installed at all times for the LUCAS 3 device to be able to operate even when connected to the external power source.
5	You may use only Jolife AB approved accessories with the LUCAS 3 chest compression system. Use only LUCAS batteries and LUCAS power source designed for the LUCAS system. Using non approved brands can cause damage to the system and voids the warranty.
6	When the Battery charge is low, the LUCAS device sounds an alarm with an intermittent yellow LED and an alarm signal. Change the Battery; Keep interruptions to a minimum while changing the Battery To minimize interruptions, we recommend for you to always have a charged spare LUCAS Battery in the Carrying Case. <ul style="list-style-type: none"> <li>• Push PAUSE to temporarily stop the compressions.</li> <li>• Pull the Battery out and then upwards to remove it.</li> <li>• Install a fully- charged LUCAS Battery. Put it in from above.</li> <li>• Wait until the green PAUSE mode LED illuminates.</li> <li>• Push ACTIVE (continuous) or ACTIVE (30:2) to start the chest compressions again. The LUCAS Smart Restart feature remembers the settings and Start Position for 60 seconds.</li> </ul> <p><b>Note: If the Battery change takes more than 60 seconds, the LUCAS device performs a self- test and you must adjust the Start Position again.</b></p>



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Activity / Task	
7	<p>You can connect the LUCAS Power Supply or Car Power Cable in all operation modes of the LUCAS device.</p> <ul style="list-style-type: none"> <li>• <b>Caution - Keep Battery installed at all times</b></li> <li>• <b>The Battery must always be installed for the LUCAS device to be able to operate, including when powered by the external Power Supply.</b></li> <li>• <b>To use the Power Supply cable:</b> • Connect the Power Supply cable to the LUCAS device Connect the mains cable to the wall mains outlet (100- 240V, 50/60Hz) To use the Car Power Cable: • Connect the Car Power Cable to the LUCAS device • Connect the Car Power Cable to the car outlet (12- 28VDC)</li> </ul>
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