

Bronchoscopy: Automated External Defibrillator (AED Plus) (Respiratory Therapy)

Site Applicability

St. Paul's Hospital

Policy Statements

The Automated External Defibrillator (AED) Plus will be used in the Bronchoscopy suite to temporarily manage a patient that requires defibrillation and/or CPR. If an AED is required a Code Blue must be called

General Information

The AED Plus is an automated external defibrillator that uses voice prompts and visual indicators to guide the rescuer through defibrillation and/or CPR. The AED Plus monitors the patient's ECG rhythm, determines if it is shockable or non-shockable and delivers defibrillation energy as appropriate.

Indications

The AED Plus is used to treat symptomatic and life-threatening arrhythmias.

Equipment and Supplies

- AED Plus automated defibrillator
- CPR-D-padz electrodes

Procedure

Preparing the Device:

1. Remove the cover from the AED device and verify that the attached electrodes are adult pads.
2. Turn the device on and wait for the device to complete self-test. Verify that the device issues the **UNIT OK** voice prompt. This voice prompt indicates that the batteries and electrodes are properly installed and that the unit is ready for service. Do not use the device unless the **UNIT OK** voice prompt is heard.
3. Verify that the device issues the voice prompt **ADULT PADS**. The device cannot be used on an adult patient if there are pediatric pads attached.

This material has been prepared solely for use at Providence Health Care (PHC), Provincial Health Services Authority (PHSA) and Vancouver Coastal Health (VCH). PHC, PHSA and VCH accept no responsibility for use of this material by any person or organization not associated with PHC, PHSA and VCH. A printed copy of this document may not reflect the current electronic version.

Applying the Electrodes:

1. Remove all clothing from the patient's chest. Ensure the patient's chest is dry and free of anything that would interfere with adhesion of the electrodes.
2. Hold the CPR sensor and place the sensor between the nipples such that it is positioned along the sternum.
3. Press the sensor with your right hand and pull the number 2 tab to peel the protective backing from the electrode that is positioned above the patient's right nipple. Ensure that the electrode adheres to the patient's skin.
4. Press the sensor with your left hand and pull the number 3 tab to peel the protective backing from the electrode that is positioned below the patient's left nipple. Ensure that the electrode adheres to the patient's skin.

**Using the Device:**

1. Once the pads are in place wait for the AED to analyze the rhythm. Do not touch the patient while the AED is analyzing the rhythm.
2. If a shock is required, you will be prompted by both a voice prompt as well as visual prompts to select the heart-shaped defibrillation button in the center of the device. Be sure that no one is touching the patient before pressing the defibrillation button.
3. After the shock is delivered, immediately start CPR at a rate of **100 compressions per minute** and depth of 2 inches. If you do not reach the target CPR depth, the AED will let you know every 15 seconds using voice and visual prompts to **Push Harder**.
Note: A real-time display of each chest compression will appear on the screen of the AED. The upper line on the bar represents 2 inches and the bottom line represents 2.5 inches.
4. After performing 30 compressions you will be prompted to provide two rescue breaths. Continue to follow AED prompts.

Cleaning and Check Out:

1. Remove the electrode pads from the device and discard. Clean the device with CaviWipes.
2. Verify that new electrodes are adult pads and attach to the device via the electrode connector.
Note: If the electrode is not connected to the AED Plus unit the device will fail the self-test and display a **RED X** in the status indicator window.
3. Turn the device on and wait for the device to complete self-test. Verify that the device issues the **UNIT OK** voice prompt. Verify that the device issues the voice prompt **ADULTS PADS**. Turn the unit off.
4. Wait **2 minutes** and verify that the **GREEN CHECK MARK** appears in the status indicator window and that the unit does not emit a beeping tone.

References

1. Zoll. (2015, August). *AED Plus® administrator's guide*. Product Manuals. https://www.zoll.com/-/media/public-site/products/aed-plus/9650-0301-06-sf_c.ashx

Effective Date:	01-JAN-2016
Posted Date:	14-APR-2021
Last Revised:	14-APR-2021
Last Reviewed:	
Approved By:	PHC
	Professional Practice Leader Respiratory Services
Owners:	PHC
	Respiratory Therapy