UNIVERSITY OF TOLEDO

SUBJECT: AUTOMATED EXTERNAL DEFIBRILLATOR

PROCEDURE STATEMENT

An automated external defibrillator (AED) is used to treat victims who experience sudden cardiac arrest (SCA). This policy applies to AED units on campus.

PURPOSE OF PROCEDURE

To provide access, ensure proper use, maintenance, and training on AED's at the University of Toledo, in the case of sudden cardiac arrest.

AED DEPLOYMENT SITES

<table>
<thead>
<tr>
<th>Building</th>
<th>Location</th>
<th>Manufacturer</th>
<th>Model/ ID Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Campus Police</td>
<td>Dispatch</td>
<td>Physio-Con</td>
<td>LIFEPAK 500/ 0040008</td>
</tr>
<tr>
<td>Campus Police</td>
<td>Campus Police Vehicle</td>
<td>Medtronic</td>
<td>LIFEPAK 1000/ 0042635</td>
</tr>
<tr>
<td>Campus Police</td>
<td>Campus Police Vehicle</td>
<td>Medtronic</td>
<td>LIFEPAK 1000/ 0042634</td>
</tr>
<tr>
<td>Campus Police</td>
<td>Campus Police Vehicle</td>
<td>Medtronic</td>
<td>LIFEPAK 1000/ 0042625</td>
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<tr>
<td>Campus Police</td>
<td>Campus Police Vehicle</td>
<td>Medtronic</td>
<td>LIFEPAK 1000/ 0042636</td>
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<tr>
<td>Campus Police Vehicle</td>
<td>Campus Police Vehicle</td>
<td>Medtronic</td>
<td>LIFEPAK 1000/0042628</td>
</tr>
<tr>
<td>Campus Police Vehicle</td>
<td>Campus Police Vehicle</td>
<td>Medtronic</td>
<td>LIFEPAK 1000/0042637</td>
</tr>
<tr>
<td>Carlson Library</td>
<td>1st floor information commons, west wall, 1st green pillar from NE entrance</td>
<td>Medtronic</td>
<td>LIFEPAK 1000/0042631</td>
</tr>
<tr>
<td>Driscoll Center</td>
<td>2nd floor near elevator</td>
<td>Zoll</td>
<td>AED PLUS/ 0040084</td>
</tr>
<tr>
<td>Glass Bowl</td>
<td>Stadium Operations Area</td>
<td>Medtronic</td>
<td>LIFEPAK 1000/0042626</td>
</tr>
<tr>
<td>Health &amp; Human Services</td>
<td>1st floor, on east wall around the corner from HH-1248</td>
<td>Medtronic</td>
<td>LIFEPAK 1000/0042622</td>
</tr>
<tr>
<td>Health Education</td>
<td>1st floor, west wall between elevator &amp; fire extinguisher cabinet</td>
<td>Medtronic</td>
<td>LIFEPAK 1000/0042624</td>
</tr>
<tr>
<td>Larimer Athletic Complex</td>
<td>Outside room 1410-1470 (Athletic Training Room)</td>
<td>Medtronic/Biphasic</td>
<td>LIFEPAK 500/ 0042380</td>
</tr>
<tr>
<td>Law Center</td>
<td>1st floor, west side of the forum between rooms 1006 and 1012</td>
<td>Medtronic</td>
<td>LIFEPAK 1000/0042633</td>
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<tr>
<td>Main Campus Medical Center</td>
<td>Room 1500 (Conference Room on Medication Cart)</td>
<td>Medtronic</td>
<td>LIFEPAK 1000/0049201</td>
</tr>
<tr>
<td>Main Campus Medical Center</td>
<td>Pharmacy</td>
<td>Medtronic</td>
<td>LIFEPAK 1000/ 0042621</td>
</tr>
<tr>
<td>Nitschke Hall</td>
<td>Main floor across from SW entrance door</td>
<td>Cardiac Science</td>
<td>G3Plus9390A&amp;E/0043958</td>
</tr>
<tr>
<td>Recreation Center</td>
<td>Poolside</td>
<td>Agilent</td>
<td>Heartstream FR2 M3860/0042378</td>
</tr>
<tr>
<td>Recreation Center</td>
<td>Main Office</td>
<td>Philips</td>
<td>Heart Start A15D-03777</td>
</tr>
<tr>
<td>Building</td>
<td>Location</td>
<td>Manufacturer</td>
<td>Model/ ID Number</td>
</tr>
<tr>
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<tr>
<td>Recreation Center</td>
<td>Issue Desk</td>
<td>Philips</td>
<td>Heart Start A15D-04141</td>
</tr>
<tr>
<td>Recreation Center</td>
<td>Control Desk</td>
<td>Philips</td>
<td>Heart Start</td>
</tr>
<tr>
<td>Rocket Hall</td>
<td>Visitors Center</td>
<td>Medtronic</td>
<td>LIFEPAK CR Plus/0042257</td>
</tr>
<tr>
<td>Savage Arena</td>
<td>Athletic Training, room 1120</td>
<td>Cardiac Science</td>
<td>Power Heart AED G3</td>
</tr>
<tr>
<td>Savage Arena</td>
<td>Outside of 1970 (Practice Field)</td>
<td>Cardiac Science</td>
<td>Power Heart AED G3/0043957</td>
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<tr>
<td>Savage Arena</td>
<td>Outside room 1120 (Athletic Training Room)</td>
<td>Medtronic/Biphasic</td>
<td>LIFEPAK 500/0042379</td>
</tr>
<tr>
<td>Student Union</td>
<td>Outside room 2525</td>
<td>Medtronic</td>
<td>LIFEPAK 1000/0042632</td>
</tr>
<tr>
<td>University Hall</td>
<td>3rd floor, to the left of Doermann Theater, next to fire extinguisher cabinet</td>
<td>Medtronic</td>
<td>LIFEPAK 1000/0042629</td>
</tr>
<tr>
<td>University Hall</td>
<td>5th floor, on right side of elevator</td>
<td>Medtronic</td>
<td>LIFEPAK 1000/0042630</td>
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<tr>
<td>Wolfe Hall</td>
<td>1st floor, north wall at SE entrance</td>
<td>Medtronic</td>
<td>LIFEPAK 1000/0042627</td>
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</tbody>
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**SCOTT PARK**

<table>
<thead>
<tr>
<th>Building</th>
<th>Location</th>
<th>Manufacturer</th>
<th>Model/ ID Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Findlay Building</td>
<td>Outside of room 1100 (Athletic Training Room)</td>
<td>Medtronic/Biphasic</td>
<td>LIFEPAK 500/0042381</td>
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<tr>
<td>Learning Resource Center</td>
<td>Near library, on east wall next to fire alarm pull station.</td>
<td>Medtronic</td>
<td>LIFEPAK 1000/0042623</td>
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**HEALTH SCIENCE CAMPUS**

<table>
<thead>
<tr>
<th>Building</th>
<th>Location</th>
<th>Manufacturer</th>
<th>Model/ ID Number</th>
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<tbody>
<tr>
<td>Block Health Science</td>
<td>Lobby</td>
<td>Medtronic</td>
<td>LIFPAK CR Plus/0037956</td>
</tr>
<tr>
<td>CCE</td>
<td>Lobby</td>
<td>Medtronic</td>
<td>LIFPAK CR Plus/0042255</td>
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<tr>
<td>Collier</td>
<td>Behind Greeting Desk</td>
<td>Medtronic</td>
<td>LIFPAK CR Plus/0037953</td>
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<tr>
<td>Glendale Medical East</td>
<td>Lobby</td>
<td>Medtronic</td>
<td>LIFPAK CR Plus/0050383</td>
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<tr>
<td>Glendale Medical Center</td>
<td>First Floor Hallway</td>
<td>Medtronic</td>
<td>LIFPAK CR Plus/0042252</td>
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<tr>
<td>Health Education Building</td>
<td>Lobby (Main)</td>
<td>Medtronic</td>
<td>LIFPAK CR Plus/0037959</td>
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<tr>
<td>Health Education Building</td>
<td>Outside HEB 089</td>
<td>Medtronic</td>
<td>LIFPAK CR Plus/0044109</td>
</tr>
<tr>
<td>Health Education Building</td>
<td>Lobby (Wolfe Center)</td>
<td>Medtronic</td>
<td>LIFPAK CR Plus/0047496</td>
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<tr>
<td>Kobacker (Adolescent)</td>
<td>Patient Exam Room</td>
<td>Medtronic</td>
<td>LIFPAK CR Plus/0042253</td>
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<tr>
<td>Kobacker (Senior Behavioral Health)</td>
<td>Nurses Station</td>
<td>Medtronic</td>
<td>LIFPAK 1000/0049535</td>
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<tr>
<td>Morse Center</td>
<td>Lobby</td>
<td>Medtronic</td>
<td>LIFPAK CR Plus/0042254</td>
</tr>
<tr>
<td>Mulford</td>
<td>Library 4th Floor</td>
<td>Medtronic</td>
<td>LIFPAK CR Plus/0037955</td>
</tr>
<tr>
<td>Ruppert Health Center</td>
<td>Lobby</td>
<td>Medtronic</td>
<td>LIFPAK CR Plus/0037960</td>
</tr>
<tr>
<td>Dana Center</td>
<td>Lobby</td>
<td>Medtronic</td>
<td>LIFPAK CR Plus/0046350</td>
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**LAKE ERIE CENTER**

<table>
<thead>
<tr>
<th>Building</th>
<th>Location</th>
<th>Manufacturer</th>
<th>Model/ ID Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lake Erie Center</td>
<td>Hallway</td>
<td>Medtronic</td>
<td>LIFPAK CR Plus/0037954</td>
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</tbody>
</table>
Månskentially, this is a text-based representation of the content in the image:

**PRIMARY CARE CLINICS**

<table>
<thead>
<tr>
<th>Building</th>
<th>Location</th>
<th>Manufacturer</th>
<th>Model/ ID Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talmadge Rd. Clinic</td>
<td>Nursing Station</td>
<td>Medtronic</td>
<td>LIFEPAK CR Plus/ 0037954</td>
</tr>
<tr>
<td>Fallen Timbers Clinic</td>
<td>Nursing Station</td>
<td>Medtronic</td>
<td>LIFEPAK CR Plus/ 0046530</td>
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<tr>
<td>Regency</td>
<td>Rehab Clinic</td>
<td>Zoll</td>
<td>AED Plus/0051889</td>
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<tr>
<td>Regency</td>
<td>UTP</td>
<td>Zoll</td>
<td>AED Plus/0051888</td>
</tr>
</tbody>
</table>

**GENERAL CONSIDERATIONS**

**TRAINING**

AEDs are very accurate and easy to use, however, an AED operator must know how to recognize the signs of a sudden cardiac arrest, when to activate the EMS system, and how to do CPR. Early CPR is an integral part of providing lifesaving aid to people suffering sudden cardiac arrest. CPR helps to circulate oxygen-rich blood to the brain. After the AED is attached and delivers a shock, the typical AED will prompt the operator to continue CPR while the device continues to analyze the victim. It’s also important for operators to receive formal training on the AED model they will use so that they become familiar with the device and are able to successfully operate it in an emergency. Training also teaches the operator how to avoid potentially hazardous situations.

In the event of an emergency on campus, call X2600 and University of Toledo Police will respond. They are trained in both CPR and AED use. However, those working in the vicinity of an AED on campus are encouraged to attend and maintain training through the American Red Cross or American Heart Association.

In addition to training courses offered by the American Red Cross and American Heart Association, the University of Toledo has several videos available on the LIFEPAK CR PLUS unit deployed on the Health Science Campus as well as a trainer AED to be used during training activities.

**NOTE:** The Sports Medicine Staff, in the Athletic Department, will follow the established Emergency Action Plan for Athletic venues by alerting Lucas County EMS at 9-911. University of Toledo Police must also be notified at X2600.

**USE, INSPECTION AND MAINTENANCE**

In the event of an emergency on campus, dial X2600 and University of Toledo Police Officers will respond.

Most units are alarmed and kept in a cabinet. When the door on the cabinet is opened, the unit will produce a local alarm to inform people in the area that the unit has been deployed. The alarm can be deactivated at the alarm deactivation core using the key located inside the cabinet. The alarm will also go off when the door is closed.

All units must be maintained according to the manufacturer’s instructions including regular battery checks and equipment replacement (pads). In order to maintain a state of readiness, the AED units will be visually inspected monthly for battery charge.

Contact Technology Support Services, 419-383-4899, if a problem exists. A more thorough inspection will be conducted by Technology Support Services annually and when a problem exists. The annual check will include a battery check and verification of pad expiration dates. AED units must also be serviced immediately after use, and should be dropped off at Technology Support Services on the Health Science Campus.

**Medtronic LIFEPAK CR PLUS**

The AED unit has a readiness indicator located on the front of the unit. When the readiness indicator reads “OK”, the unit is in good condition. If a problem exists the unit will read “CHARGE-PAK”, “ATTENTION”, or a wrench symbol will appear depending on the type of condition detected.
Heartstream FR2 and Heartstart Forerunner

The AED unit has a readiness indicator located on the front of the unit. When the readiness indicator is a flashing hourglass the battery is in good condition.

Zoll AED PLUS

The AED unit has a readiness indicator located on the front of the unit. When the readiness indicator is a green checkmark the battery is in good condition.

OTHER

If the AED does not have a battery light indicator, the unit is turned on and the battery life is checked.

POST INCIDENT FOLLOW-UP

After an AED unit is used an injury/illness report must be completed. The Director of Environmental Health and Radiation Safety and the University of Toledo Police will follow up on the report to ensure the AED unit used was serviced and determine if the AED procedures were followed.