

Baylor University Automated External Defibrillator Program

Introduction

Heart disease is the leading cause of death globally with 326,000 people annually experiencing sudden cardiac arrest in just the United States.¹ The chances of survival increase significantly when there is a witness and the victim has a shockable heart rhythm.

Baylor University strives to maintain a safe and healthy work environment and The Department of Environmental Health & Safety has developed the Automated Defibrillator {AED} Program to allow access to potentially lifesaving defibrillation to persons experiencing sudden cardiac arrest.

Definitions

Automated External Defibrillator: An automated external defibrillator (AED) is a portable electronic device that automatically detects and analyzes heart rhythm and determines if there is a problem that will respond to an electrical shock. If the AED detects a shockable rhythm, it will advise the operator to “Stand Back” and will automatically deliver the shock. The AED’s provided by Baylor University all have audible voice commands that will give specific instructions on how to provide potentially lifesaving care therefore no prior training is required to use the AED.

Sudden Cardiac Arrest: Sudden cardiac arrest (SCA) is a condition in which the heart suddenly and unexpectedly stops beating. If this happens, blood stops flowing to the brain and other vital organs. SCA usually causes death if it is not treated within minutes.

To understand SCA, it helps to understand how the heart works. The heart has an electrical system that controls the rate and rhythm of the heartbeat. Problems with the heart's electrical system can cause irregular heartbeats called arrhythmias.

There are many types of arrhythmias. During an arrhythmia, the heart can beat too fast, too slow, or with an irregular rhythm. Some arrhythmias can cause the heart to stop pumping blood to the body—these arrhythmias cause SCA.

SCA is not the same as a heart attack. A heart attack occurs if blood flow to part of the heart muscle is blocked. During a heart attack, the heart usually does not suddenly stop beating. SCA, however, may happen after or during recovery from a heart attack.

People who have heart disease are at higher risk for SCA. However, SCA can happen in people who appear healthy and have no known heart disease or other risk factors for SCA.²

Program Responsibilities

The Department of Environmental Health & Safety (EH&S) is responsible for administering the University AED program. This will include procurement and deployment, inspection, maintenance, training and program documentation.

The AED Program Manager: The program manager has oversight responsibility for the entire AED program including development of the program and ensuring proper protocols are followed.

¹ American Heart Association 2015 Heart and Stroke Statistics

² National Heart, Lung and Blood Institute

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AED Program Coordinator: The program coordinator has primary responsibility for ensuring proper implementation of the AED Program including: arranging for and scheduling training, ensuring proper inspections and maintenance is being done, record retention, facilitating purchase of new AED units and assisting in proper placement of those AED units.

AED Program Coordinator: Kenneth O'Connor, Department of Environmental Health & Safety
Baylor University
Phone: 254-710-2357

AED Purchases

The campus AED program will be expanded as funding becomes available. It is the plan to place units in key designated areas as purchases are made. Individual departments may utilize department budgets to purchase AEDs for their area as long as the policy and guidelines are followed.

Individual departments wishing to purchase AED units should contact the AED Program Coordinator who will facilitate the purchase with the University's preferred AED vendor. The AED Coordinator will also assist in selecting the exact location that the AED unit will be installed.

AED Locations

Baylor University currently has 94 AED's (as of 6/15/2017) in the AED program. Of this, nine are located in Baylor Police Department squad and security vehicles. See Appendix A for a listing of all University AED locations.

AED Training

AED training is offered throughout the year to current University staff and faculty. To register for a class, visit Baylor Compass/Learning Library and register online.

At the end of the class, participants will receive a certification card issued by the American Heart Association that is good for two years. Training must be repeated every two years in order to maintain certification.

If an individual University department desires training specifically for their own personnel, contact the AED Program Coordinator for more information and current pricing. The cost of the training class for department specific training will be borne by that specific department.

Inspections and Maintenance

The AED Program Coordinator is responsible for ensuring that all AED's are inspected on a regular basis and that the units are maintained in good working order. Inspections are currently conducted monthly by a third party vendor with documentation available for review upon request.

The Department of Environmental Health & Safety pays for the inspections and maintenance (new batteries and new pads) of all current AED's and will handle the inspection and maintenance cost on a forward basis for new AED's brought into the University AED program.

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Who can use an AED

Ideally, a University AED will be used by a person who has gone through AED/CPR training; however, AED's are designed so that they can be used by any person.

Texas Good Samaritan Laws

Texas law explicitly extends and broadens Good Samaritan protection to trained AND untrained users including "citizen" AED providers, their medical director, AED manufacturers and training providers (HB 580 §779.006, HB2117 §74.151). This protection is valid as long as an act of willful or wanton negligence is not performed.

Post Incident Procedure

In the event that one of the AED's is used in a SCA situation, the following procedure is to be followed:

- Notify the AED Program Coordinator that there has been an AED event.
- The AED coordinator will secure the AED that was used so that the data is retrieved and delivered to the appropriate medical professionals.
- A replacement AED will be put into service until which time the original AED is returned to service with new batteries and new pads.

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Appendix A

Baylor University AED locations

1	801 Washington, Suite 260	18	Baylor Geology (mobile)	35	Clyde Hart Track & Field Stadium 3	52	Hooper-Schaefer Fine Arts Center (1st Floor/To the left of the offices)	69	McLane Stadium 2	86	Simpson Center
2	802 Washington, Suite 300	19	Baylor Men's Basketball (Athletic Trainers Office)	36	Clyde Hart Track & Field Stadium 4	53	Intramural Field (mobile unit)	70	McLane Stadium 3	87	SLC - Health Center (2nd Floor)
3	801 Washington, Suite 808	20	Baylor Physical Plant	37	East Village Dining Hall	54	ITS Offices (Dutton Garage)	71	McLane Stadium 4	88	SLC - Student Lounge (1st Floor)
4	Allison Indoor Football Facility (1st Floor/Entrance)	21	Baylor Science Building 3rd Floor	38	Eastland Lakes 1 (Baylor Rec. Ropes Course - mobile unit)	55	Jones Library (1st Floor/Back wall behind front desks)	72	McLane Stadium 5	89	SLC - Workout Room (1st Floor)
5	Armstrong-Browning (1st Floor/Office)	22	Baylor Science Building 4th Floor	39	Eastland Lakes 2 (Baylor Rec. Main Building)	56	Ken O'Connor (EHS office mobile)	73	McLane Stadium 6	90	Tennis Complex (1st Floor/Entrance Closer to Tennis courts)
6	Baylor Ballpark (Ferrell Field)	23	Baylor Sciences Building 1st Floor	40	Equestrian Center (Front room/Connected to Arena)	57	Law School 1 (1st Floor library)	74	McMullen-Connally Faculty Center (1st Floor/Kitchen)	91	Truett Seminary (1st Floor/Entrance)
7	Baylor Bookstore	24	Baylor Sciences Building 2nd Floor	41	Ferrell Center (Bottom level/Near the training room)	58	Law School 2 (1st Floor elevators)	75	Memorial Dining Hall	92	Waco Hall (1st Floor/Near Men's Restroom)
8	Baylor DPS Security Car #40	25	Beuachamp Athletic Nutrition Center (BANC)	42	Ferrell Center (Bottom level/Whetsel Practice Facility)	59	Law School 3 (2nd Floor)	76	Mike Sim's AED (Mobile)	93	Wiethorn Visitors Center (1st Floor)
9	Baylor DPS Patrol Car #2	26	Bill Daniel Student Center (SUB)	43	Ferrell Center NE (2nd level)	60	Law School 4 (3rd Floor)	77	Moody Library (1st Floor near desks)	94	Williams Soccer Center
#	Baylor DPS Patrol Car #3	27	Brent Jones EHS (Mobile)	44	Ferrell Center SW (2nd level)	61	Law School 5 (3rd Floor by copiers)	78	Old Main		
#	Baylor DPS Patrol Car #4	28	BRIC	45	Foster Business School 1 (First Floor)	62	Marina (Behind Offices)	79	Pat Neff (1st floor kitchen)		
#	Baylor DPS Patrol Car #5	29	Brooks Dining Hall (Great Hall)	46	Foster Business School 2 (Second Floor)	63	Marrs Mclean Gym - (1st Floor/Front right of Gym)	80	Penland Dinning Facility (1st Floor/Entrance)		
#	Baylor DPS Patrol Car #6	30	Burleson	47	Foster Business School 3 (Second Floor - McClinton Auditorium)	64	Marrs Mclean Gym - HHPR (1st Floor/Room)	81	Piper Child Development Center		
#	Baylor DPS Patrol Car #7	31	Cashion	48	Foster Business School 4 (Third Floor Floor)	65	Mayborn 1 (Front Entrance - 1st Floor)	82	Robinson Tower (1st Floor)		
#	Baylor DPS Patrol Car #8	32	Castellaw	49	Foster Business School 5 (Fourth Floor)	66	Mayborn 2 (Second Floor - 2nd Floor)	83	Robinson Tower (4th Floor)		
#	Baylor DPS Patrol Car #9	33	Clyde Hart Track & Field Stadium 1	50	Hankamer (1st floor main lobby)	67	McCrary Music Bldg. (1st Floor/Entrance)	84	Rogers Engineering and Computer Science Building		
#	Baylor Energy Complex	34	Clyde Hart Track & Field Stadium 2	51	Hawkins Indoor Tennis Facility	68	McLane Stadium 1	85	Russell Gym		