

**VivaLink AED In-Service Training Video
Module 1: Basics of Defibrillation**

Module 1

(est. length—about 5:15)

Fade in

1. GFX—fast-viewing icon* (on screen for :30): CG title over full-screen VivaLink background:
Module 1: Basics of Defibrillation
Music full, then under
Narrator (VO):
This module covers the basics of defibrillation.

****Production note: To use this section as a stand-alone EMR training video, replace this opening GFX with the animated opening from the existing VivaLink video—but dissolve to opening scene on golf course before VivaLink logo. Add the CG title:***

Defibrillation and AEDs: A Matter of Time

2. WS: A foursome of two older couples on a golf course; a white-haired woman (Marlene) is teeing off as the other three look on.
Nat/SOT—full (laughter, etc.)
Narrator (VO):
Sudden cardiac arrest often occurs without warning...any time, anywhere—more than a thousand times a day in the United States. A victim’s chance of survival is greatly enhanced by applying the chain of survival: Each link addresses a key component in response to cardiac emergencies.
3. CU: One of the men (Fred) looking on suddenly grimaces in pain, clutches his chest, and slumps face
First Man (Fred):
Oh...

More

- down on the ground.
4. The other three rush to him. *Older Male #2:*
Fred! My God!
- Older Woman #2:*
What’s wrong...Marlene! Marlene!
5. CU: White-haired woman, her face etched with anxiety. *White-Haired Woman (Marlene):*
Help! Help him!
6. GFX—insert red banner with CG title over CU of nearby golfer #1 dialing 911 on a cel phone: *Older Male #2 (VO):*
Someone get help! Quick!
- SFX—phone dial and 911 operator answering*
- First Link in Chain of Survival: Early Access to Care
7. GFX—insert red banner with CG title over CU of nearby golfer #2 beginning CPR: *Older Male #2 (to Golfer #2):*
He was standing right here, just waiting for his turn...
- Older Woman #2:*
Then he just fell down—with no warning!
8. Within moments, golf pro leaps from his golf cart as it jerks to a stop and runs with VivaLink AED to small knot of people kneeling and standing around Fred. *White-Haired Woman (Marlene):*
Hurry! Hurry!
- Older Male #2:*
He needs help!
9. Golf pro checks that Fred is unconscious, not breathing, and has no pulse. *Golf Pro:*
Can you hear me?
- (Golf Pro bends to look, listen, and feel for breath, then checks pulse)*
10. GFX—insert red banner with CG title as golf pro tears open Fred’s shirt, opens VivaLink, and begins attaching electrodes: *VivaLink Prompt:*
“Place electrodes...Place electrodes...”
- White-Haired Woman (Marlene):*

	Third Link in Chain of Survival: Early Defibrillation	Oh God...oh God! <i>Narrator (VO):</i> Time is critical when someone experiences sudden cardiac arrest.
11.	CU: Victim’s face as golf pro begins rescue.	The sooner the victim receives defibrillation...
12.	Rescue begins as others look on. The sequence is a first series of three shocks, then CPR, then a second series of two shocks, followed by revival.	...the greater the chance he or she has of surviving. <i>Nat/SOT—under (VivaLink prompts)</i> The American Heart Association has identified early defibrillation as the key link in the chain of survival. <i>Golf Pro:</i> Stand back! <i>Narrator (VO):</i> CPR may help delay death—but by itself will not cause the victim’s heart to begin beating again. Thanks to automated external defibrillators, or AEDs, defibrillation is now considered a Basic Life Support Skill. Many of the victims of sudden cardiac arrest die because life-saving defibrillators arrive on the scene too late, if ever. The American Heart Association estimates that at <i>least</i> 20-thousand deaths could be prevented each year in the United States—and perhaps <i>five times</i> that many—if AEDs were widely available.
13.	Golf pro pulls victim into recovery position.	<i>Older Male #2:</i> He’s coming to!

- White Haired Woman (Marlene):*
Oh thank God...*thank God!*
14. GFX—insert red banner with CG title as paramedics arrive on the scene in an ambulance and take over:

Fourth Link in Chain of Survival: Early Advanced Care
- Narrator (VO):*
The final link in the chain of survival is early advanced care. Paramedics can administer medications that stabilize the heart rhythm and provide additional care en route to the medical facility.
15. GFX: CU of victim, over which is superimposed a clock ticking from zero to 10 minutes; with each 1-minute tick, the brightness of the victim drops another 10%. At zero, the whole screen fades to black.
- SFX—sound of a clock, gradually getting louder*
- Narrator (VO):*
Defibrillation within the first minute can save the lives of 90-percent of the victims of sudden cardiac arrest. The message is clear: Time is critical—as each minute passes, the chance of survival drops by 10-percent—70-percent after just 2 minutes, 50-percent after 5 minutes...until the time runs out.
- SFX—last few ticks of clock loud, then suddenly quiet*
16. Narrator on camera.
- Narrator (on camera):*
More than 250-thousand Americans die each year of sudden cardiac arrest—but what causes this condition, so often fatal?
17. GFX—heart experiencing abnormal and chaotic heart rhythms (or ECG of ventricular fibrillation.
- Narrator (VO):*
The answer is that most such cases are caused by sudden abnormal, chaotic heart rhythms, called “arrhythmias.” These chaotic and unpredictable rhythms do not circulate blood or create a pulse.
18. GFX (continues)—shock of defibrillation stops chaotic activity.
- Defibrillation administers an electrical shock, which interrupts the chaotic heart activity.

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| 19. | GFX (continues)—coordinated heart rhythm and normal heart pumping action resume. | This allows the heart’s built-in pacemaker to resume a normal, coordinated heart rhythm again and normal heart pumping action. |
| 20. | Narrator on camera. | <p><i>Narrator (on camera):</i>
 Unless a victim receives defibrillation within 5-to-7 minutes of sudden cardiac arrest, death will usually follow. But <i>with</i> rapid defibrillation, up to 85-percent of all the survivors of sudden cardiac arrest are alive one year later.</p> |
| 21. | GFX—chain of survival, with early defibrillation highlighted:

Chain of Survival
Early Access to Care
Early Cardiopulmonary Resuscitation
Early Defibrillation
Early Advanced Care | <p><i>Narrator (VO):</i>
 That’s why <i>early</i> defibrillation is so important and why it is such a key link in the chain of survival.</p> |
| 22. | Narrator on camera. | <p><i>Narrator (on camera):</i>
 Since defibrillation is a Basic Life Support Skill, anyone trained in CPR can be trained to use an automated external defibrillator, or AED.</p> |
| 23. | Female narrator checks patient (show each step—unconscious, not breathing, no pulse). | <p><i>Narrator (VO):</i>
 First, check whether the patient is unconscious. Shout and shake to check for unconsciousness. Look, listen, and feel for breathing. And check for a carotid pulse.</p> |
| 24. | Female narrator opens victim’s shirt, opens lid of VivaLink AED, places electrodes, and begins rescue. | If the victim is unconscious, is not breathing, and has no pulse, begin defibrillation. With the electrodes in place, AEDs automatically analyze the patient’s heart rhythm and...if defibrillation is appropriate...will charge to apply the first of a series of shocks. |

Nat/SOT—full (VivaLink prompt)

The sequence is based on guidelines established by the American Heart Association—a series of three shocks, followed by one minute of CPR...a second series of three shocks and another period of CPR...and a third series of shocks, with a third one-minute period of CPR if needed.

Nat/SOT—full (VivaLink prompt)

The AED, of course, continues to analyze the heart rhythm in between shocks...

25. Female narrator moves patient into recovery position.

...and does not recharge for another shock if it detects that a normal heart rhythm has been restored.

26. Narrator on camera.

Narrator (on camera):

Because early defibrillation is so critical to survival, automatic external defibrillators have the potential to help save tens of thousands of lives each year.

Music—full, then out

27. Add to stand-alone version for EMR training: Existing VivaLink animated logo open; at end add CG titles:

Music—full, then out

Defibrillation and AEDs: A Matter of Time

Fade out