



Introduction to the Stop the Bleed Program

John Bastin DMSc PA-C EM-CAQ
Assistant Professor / Clinical Education Director
Florida State University College of Medicine
School of Physician Assistant Practice



Evolution of the Stop the Bleed Program


In response to the 2012 Sandy Hook School Shooting, The American College of Surgeons convened a panel of subject matter experts (SME) to identify solutions to improve survivability of victims involved in an active shooter incident.

This committee, which was convened in April 2013, was comprised of subject matter experts from the medical community, emergency medical services, fire, law enforcement, and the military.

A second committee was convened in July of 2013 that involved other SME experts such as members of FEMA and the Office of the Presidents National Security Staff

The Hartford Consensus I & II evolved from these meetings






THE COMMITTEE ON TRAUMA

QUALITY PROGRAMS
of the AMERICAN COLLEGE
OF SURGEONS


**The American College of Surgeons
Committee on Trauma**



American College of
Emergency Physicians®


ADVANCING EMERGENCY CARE

**The American College of
Emergency Physicians**




NAEMT

**The National Association of
Emergency Medical
Technicians**



**The Committee
on Tactical
Combat
Casualty Care**



Stop the Bleed in News

Forbes Magazine February 13 2020

**Tourniquet Saved Life Of
Baltimore Police Officer Shot
Yesterday, Says Dr. Thomas
Scalea Physician-In-Chief At
Maryland Shock Trauma Center**



Why Do I Need This Training?

The #1 cause of preventable death after injury is bleeding.



Where Can I Use This Training?

Stop the Bleed Course v. 2.0

Introduction | A-Alert | B-Bleeding | C-Compression |



2019 Active Shooter Statistics

28 Active Shooter Incidents in 16 states

247 Casualties

97 killed

150 wounded

2 law enforcement officers killed

15 law enforcement officers wounded

30 Shooters

29 male / 1 female

5 shooters committed suicide

9 shooters killed by police

1 killed by a citizen

15 shooters arrested by police



Specific Active Shooter Incidents

Active shooter or Intentional Mass Casualty Incidents are occurring at epidemic proportions throughout the United States

No venue or location is immune from the threat

- August 4th 2019: 9 killed 27 injured outside a bar in Dayton Ohio
- August 3rd 2019: 22 people killed and 24 injured during an active shooter incident at a Walmart in El Paso
- July 30th 2019: 2 people killed and a police officer were wounded at the Walmart in Southaven Mississippi
- July 28th 2019: 4 people killed and 12 injured at the Gilroy Garlic Festival
- May 31 2019: 12 people killed and 4 were injured during a workplace shooting in Virginia Beach Virginia
- April 30th 2019: 2 people were killed and 4 were injured at the University of NC at Charlotte


• 33 Mass Shootings in 2020



Goals

- 1. Identify**
Recognize
life-threatening
bleeding
- 2. Stop the Bleed**
Take steps to
STOP THE BLEEDING
 - ✓ Pressure
 - ✓ Packing
 - ✓ Tourniquets

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Personal Safety

YOUR safety is **YOUR** first priority

- If you are injured, you cannot help others
- Help others only when it's **safe** to do so
- If the situation changes or becomes **unsafe**:
 - ✓ Stop
 - ✓ Move to safety
 - ✓ If you can, take the victim with you



Personal Safety

YOUR safety is **YOUR** first priority

- Wear gloves if you can
- If you get **blood** on you, be sure to clean any part of your body that the blood has touched
- Tell a health care provider that you got **blood** on you, and follow his or her direction



ABCs of Bleeding Control

A Alert 911

B Bleeding

C Compress

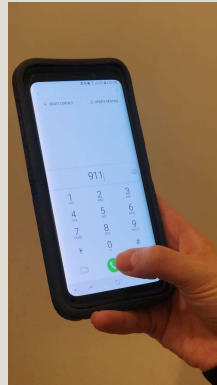


ABCs of Bleeding Control

A Alert 911

B Bleeding

C Compress



ABCs of Bleeding Control

A Alert 911

- Call 911
- Know your location
- Follow instructions provided by 911 operator



ABCs of Bleeding Control

A Alert 911

B Bleeding

C Compress



ABCs of Bleeding Control

B Bleeding

- Find source of **bleeding**
- Look for:
 - ✓ **Continuous bleeding**
 - ✓ **Large-volume bleeding**
 - ✓ **Pooling of blood**



Types of Bleeding

- **Arterial bleeding**
 - Bleeding from artery spurts
- **Venous bleeding**
 - Bleeding from vein flows
- **Capillary bleeding**
 - Bleeding from capillaries oozes



ABCs of Bleeding Control

B Bleeding

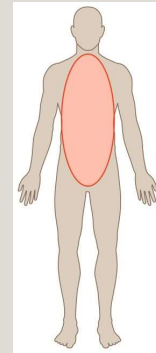
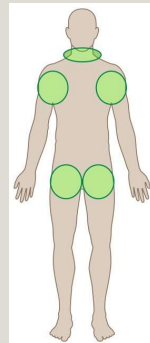
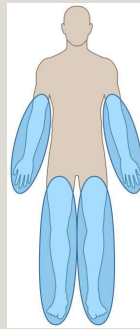
- There may be multiple places the victim is **bleeding**
- Clothing may also hide life-threatening **bleeding**



ABCs of Bleeding Control

B Bleeding

- Arms and legs
- Neck, armpits, and groin
- Body



ABCs of Bleeding Control

A Alert 911

B Bleeding

C Compress - Pressure



ABCs of Bleeding Control

C Compress - Pressure

- Apply direct pressure to wound
- Focus on the location of the **bleeding**
- Use just enough gauze or cloth to cover injury
- If pressure stops the **bleeding**, keep pressure on wound until help arrives



ABCs of Bleeding Control



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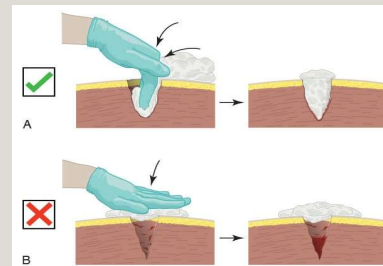
Introduction | A-Alert | B-Bleeding | C-Compression |



ABCs of Bleeding Control

C Compress - Packing

- For large wounds, superficial pressure is not effective
- If **bleeding** is from a deep wound, pack gauze tightly into the wound until it stops the **bleeding**; hold pressure until help arrives
- Removing some of the pooled blood and clots will facilitate the packing of the wound



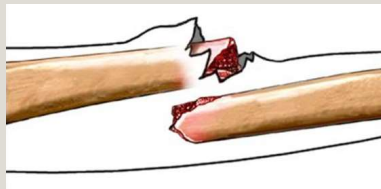
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ABCs of Bleeding Control

Be aware of the potential for exposed bone fragments or other sharp objects that may cut you while packing the wound



ABCs of Bleeding Control



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Quick Clot Combat Gauze

Quick Clot Combat Gauze

FDA Approved 2002

Composed of Kaolin impregnated polyester Gauze

Clotting mechanism is initiated when blood comes into contact the Kaolin

Factor XII is transformed into activated Factor XII

Activated Factor XII activates Factor XI and Pre-Kallikren

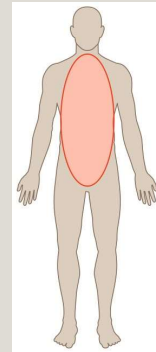
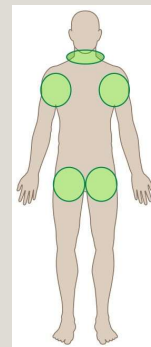
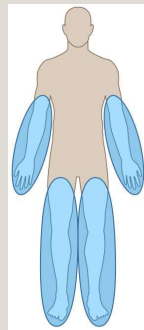
Regular kerlix can be used & is as effective



ABCs of Bleeding Control

C Compress - Packing

- Arms and legs
- Neck, armpits,
and groin
- Body



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ABCs of Bleeding Control

C Compress - Tourniquet

- Apply 2 to 3 inches above wound
- Do not place over the elbow or knee
- Do not place over forearm or lower leg
- Tighten tourniquet until **bleeding** stops
- Do NOT remove the tourniquet
- Do not cover the tourniquet



ABCs of Bleeding Control

C Compress - Tourniquet

- Can apply to others or on yourself
- Can be applied over clothes
- Tourniquets HURT
 - Pinching pain followed by deep intense ischemic pain
- A second tourniquet may be required to stop the **bleeding**



ABCs of Bleeding Control



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ABCs of Bleeding Control



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Junctional Tourniquets



Junctional Tourniquets



CoTCCC Recommended STB Tourniquets

Recommended Pneumatic Limb Tourniquets

- Delphi EMT (EMT)
- Tactical Pneumatic Tourniquet 2" (TPT2)



Bleeding control in children

- In all but the extremely young child, the same tourniquet used for adults can be used in children.
- For the infant or very small child (tourniquet too big), direct pressure on the wound as described previously will work in virtually all cases.
- For large, deep wounds, wound packing can be performed in children just as in adults using the same technique as described previously.



Recent Research in Bleeding Control in Children

Effectiveness of the Combat Application Tourniquet for Arterial Occlusion in Children

**Published in the Journal of Trauma and Acute Care Surgery:
January 21 2020**

Summary

- **Arterial occlusion was achieved on 100% of limbs tested**
- **Study suggests that the CAT Tourniquet can be used on school age children with severe extremity hemorrhage with a high likelihood of success**



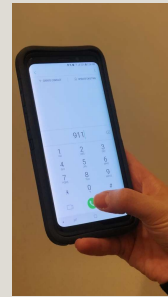
FAQs

- Impaled objects?
- Improvised tourniquets?
- Loss of arm or leg?
- Pain?
- Other questions?



Summary

- ✓ **Personal safety**
- A** Alert 911
- B** Find **bleeding**
- C** Compress with pressure and/or packing
- C** Compress with a tourniquet
- ✓ **Wait for help to arrive**



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Next Steps

Stop the Bleed is a vital Program that will save lives

We as PA's need to take the lead at training those in our community to respond

Become an instructor

Teach a class

Be prepared to respond




For more information:

BLEEDINGCONTROL.ORG

STOPTHEBLEED.ORG

Stop the Bleed Course v. 2.0 



STOP
THE BLEED®

The only thing more tragic than a death...
is a death that **could have been prevented.**

Stop the Bleed Course v. 2.0

