

SAVE A LIFE

STOP THE BLEED[®] Course American College of Surgeons

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e DNS Version 2



QUALITY PROGRAMS of the AMERICAN COLLEGE OF SURGEONS





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

The American College of Emergency **Physicians**

The National Association of Emergency Medical Technicians







The Committee on Tactical Combat **Casualty Care**

Some of the images shown during this presentation may be disturbing to some people.

Why Do I Need This Training?

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

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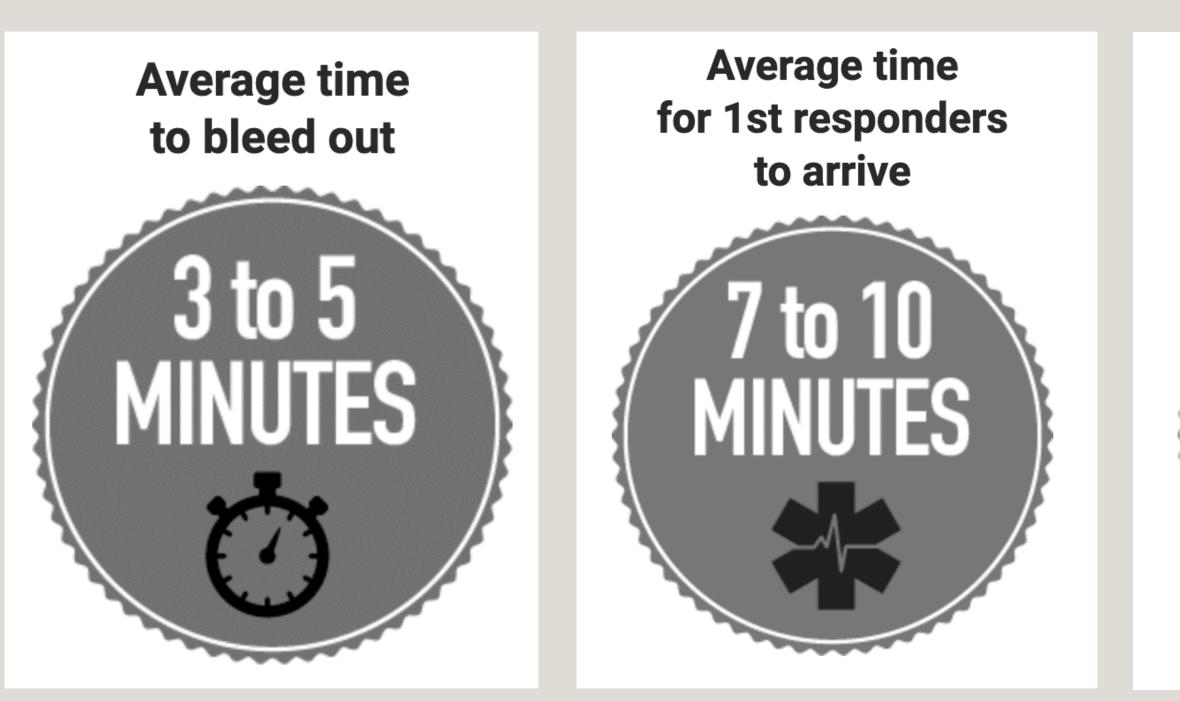


Why Do I Need This Training?

- Hemorrhagic (hypovolemic) shock begins when someone loses about 20 percent, or one-fifth, of their body's blood or fluid supply.
 - The heart is unable to circulate a sufficient amount of blood to oxygenate vital organs.
 - Estimated blood volume for a 70kg person is ~ 5L, hypovolemia would likely occur with a 1L loss of blood.

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Why Do I Need This Training?



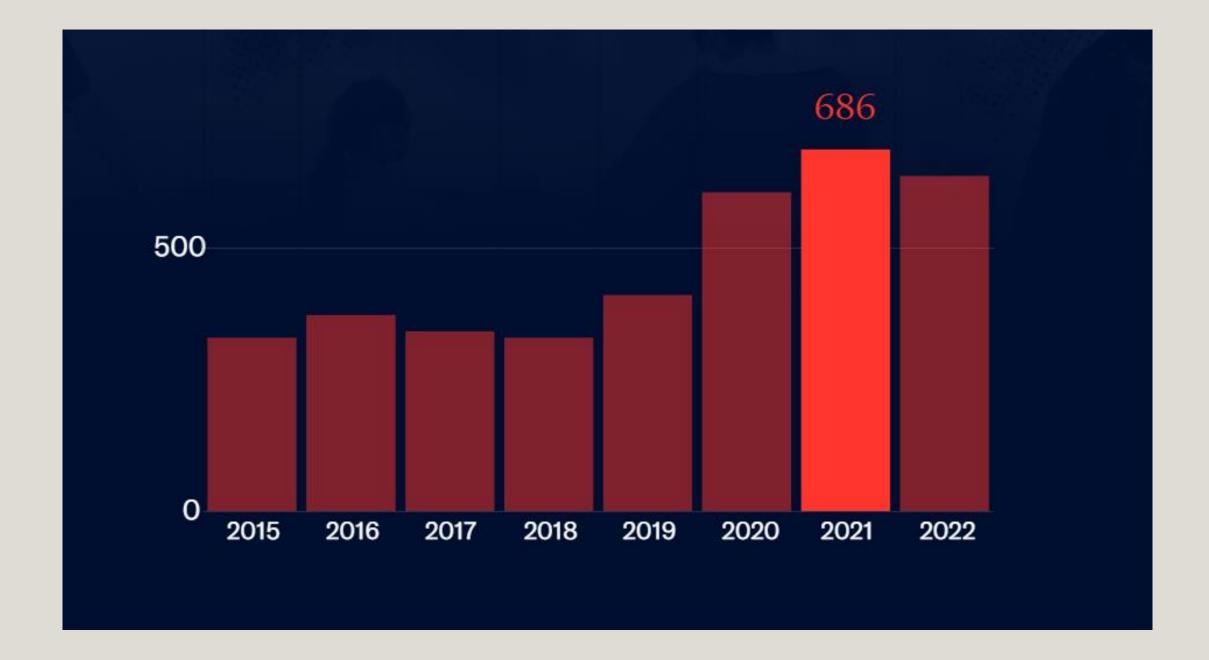
Trauma-related deaths worldwide due to bleeding



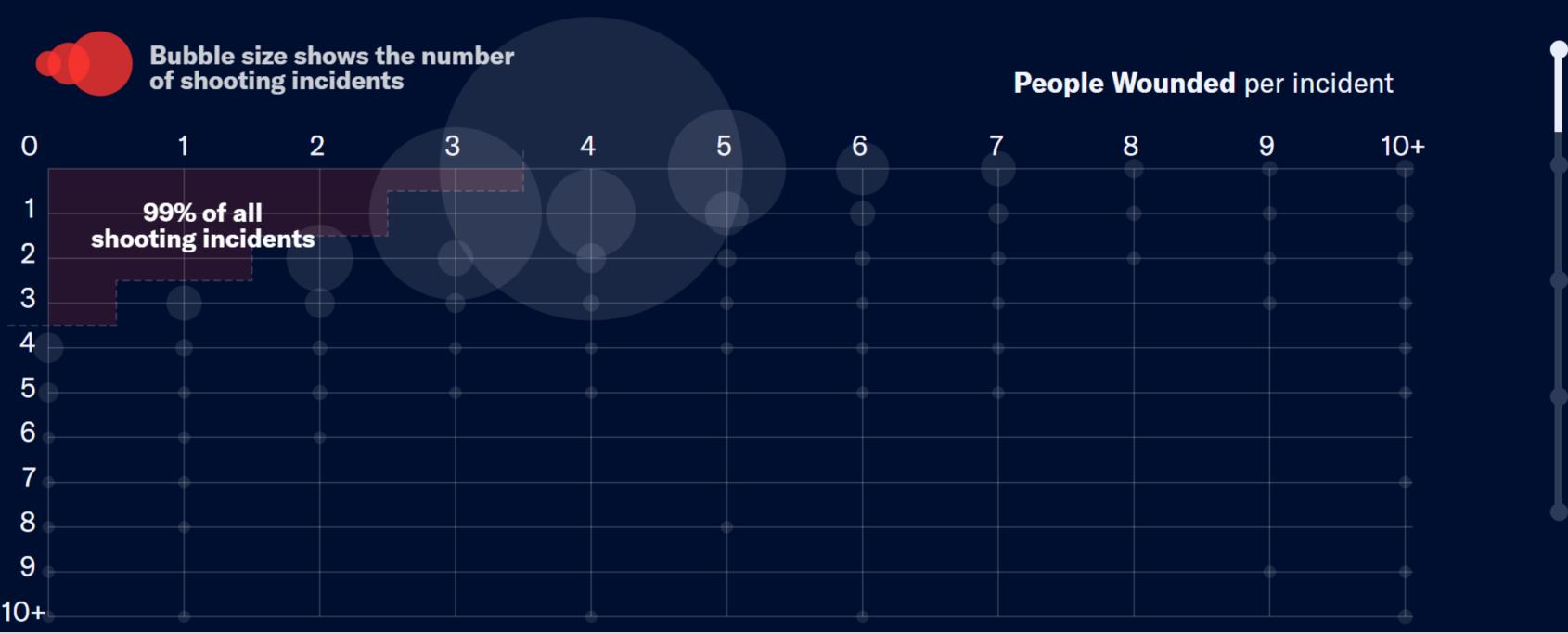
When Would I Need This Training?

- Motor Vehicle Accidents
- Stadium Collapse
- Bombing
- Mass shooting events
- Athletics?
- This training can be useful in a variety of trauma related situations.
- However.....

When Would I Need This Training?



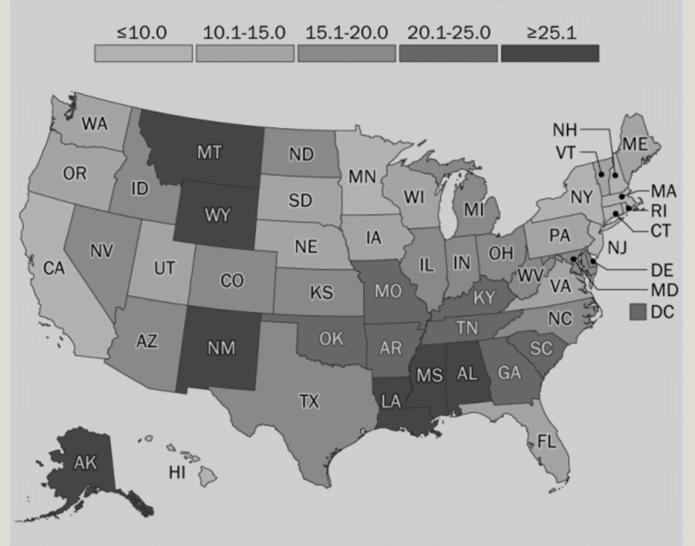
When Would I Need This Training?



Where Would I Need This Training?

U.S. gun death rates varied widely by state in 2021

Gun deaths per 100,000 people (age-adjusted), by state



Note: Includes gun murders, suicides and deaths that were accidental, involved law enforcement or had undetermined circumstances. Source: Centers for Disease Control and Prevention.

PEW RESEARCH CENTER

Where Can I Use This Training?





1. Identify

2. Stop the Bleed

Take steps to STOP THE BLEEDING ✓ Pressure ✓ Packing ✓ Tourniquets

Recognize life-threatening bleeding

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

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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
 - \checkmark Move to safety
 - $\sqrt{1}$ If you can, take the victim with you



Personal Safety

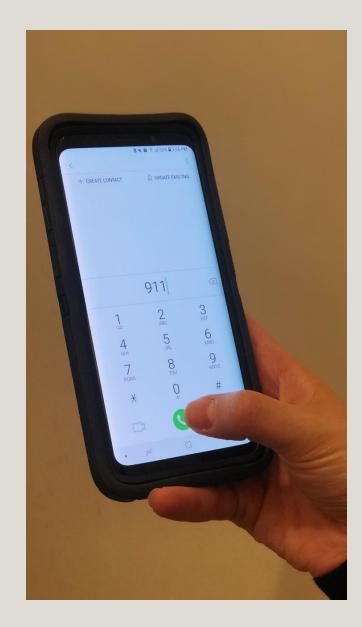
YOUR safety is **YOUR** first priority

- 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

A Alert 911 B Bleeding C Compress

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A Alert 911 B Bleeding C Compress



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A Alert 911

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



A Alert 911 B Bleeding C Compress



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B Bleeding

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

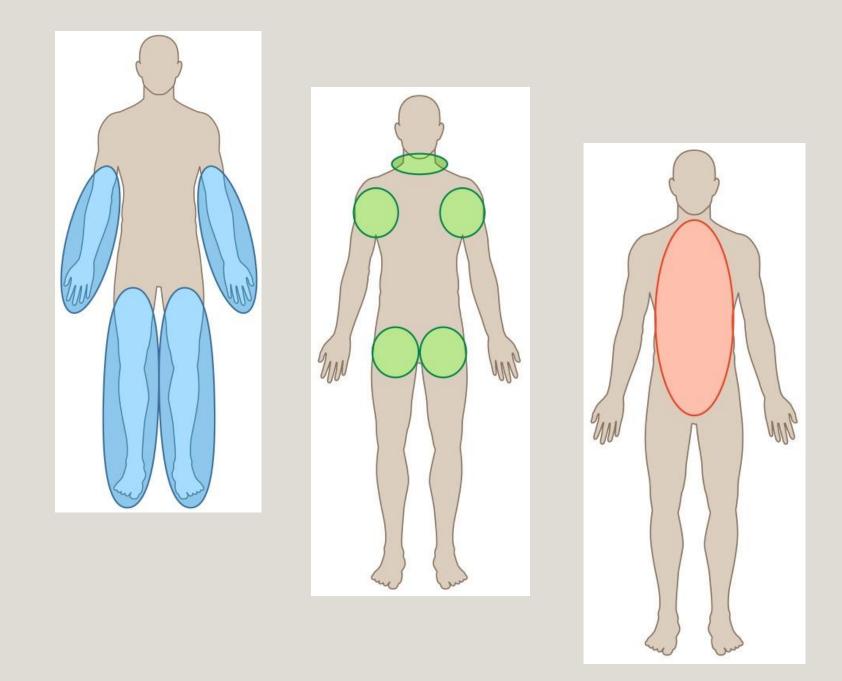
B Bleeding

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

B Bleeding

Arms and legs

 Neck, armpits, and groin



Body

A Alert 911 B Bleeding

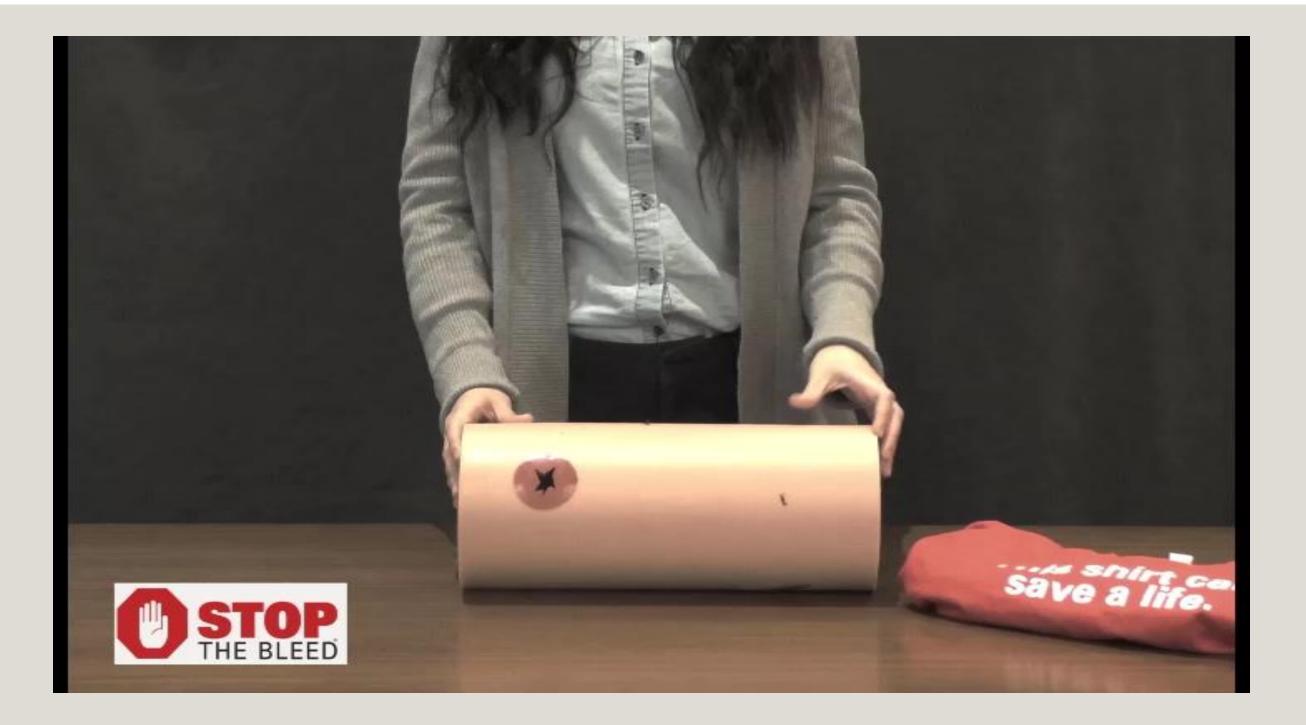
C Compress - Pressure

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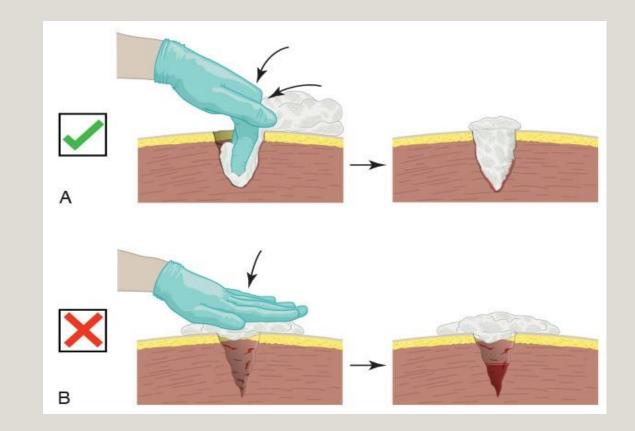
C Compress - Pressure

- 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



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



Compression

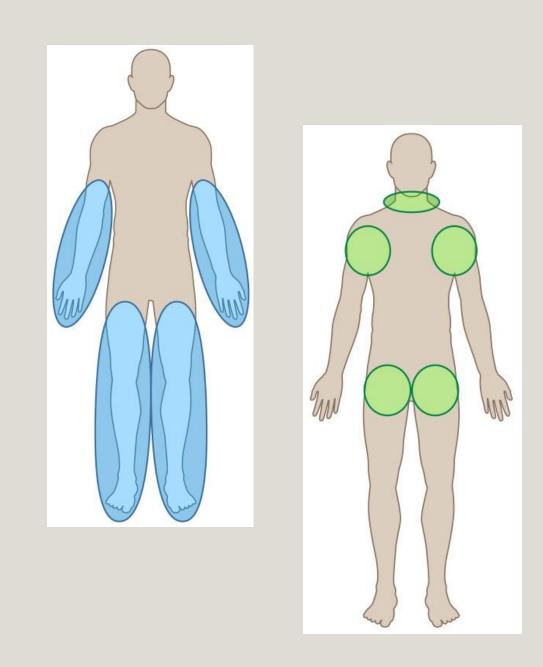
Introduction | A-Alert | B-Bleeding | C-



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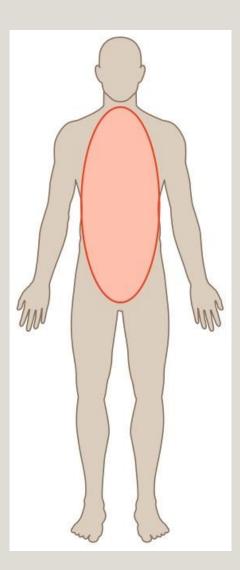
C Compress -Packing

- Arms and legs
- Neck, armpits, and groin



Body

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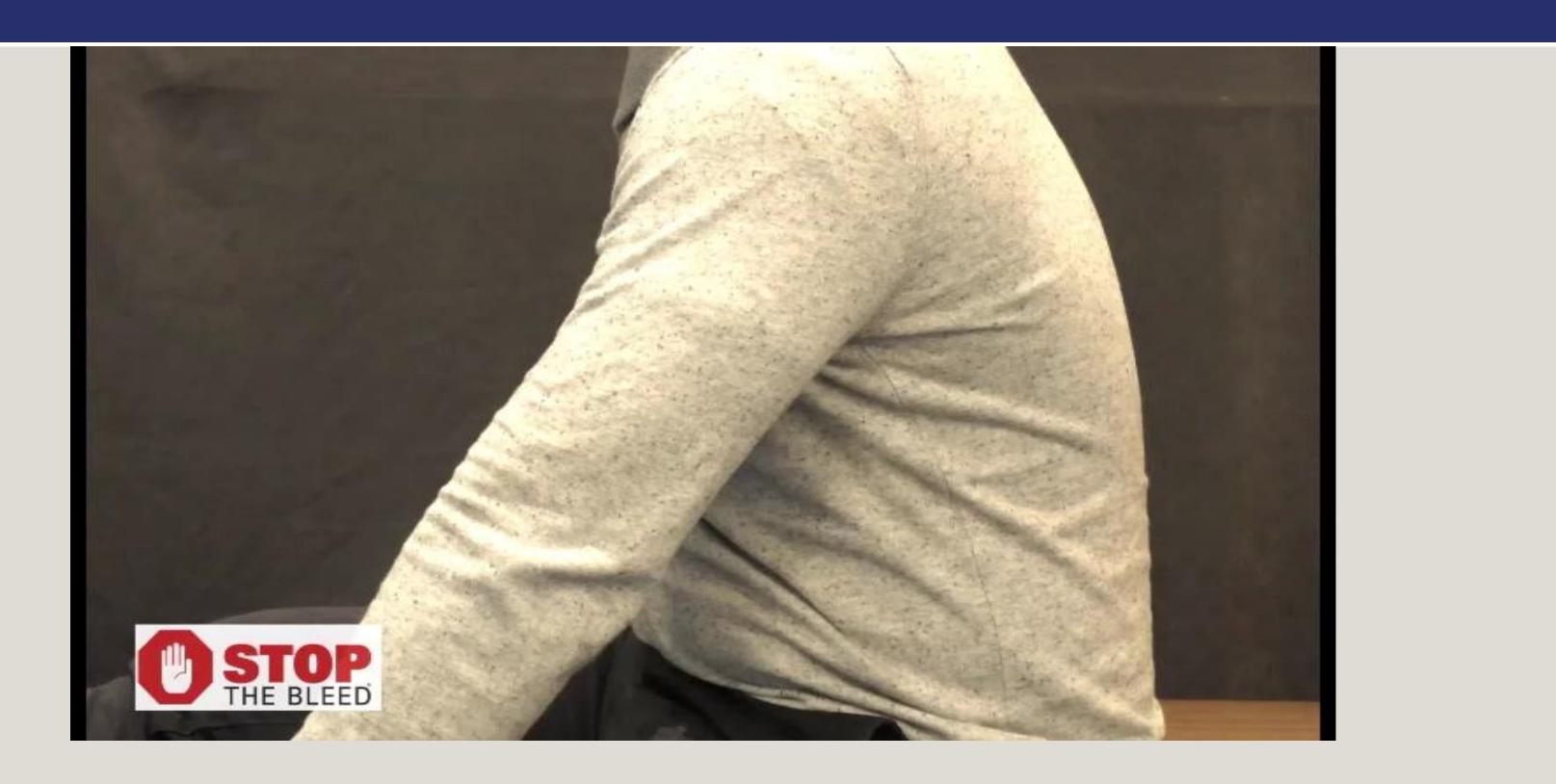
C Compress - Tourniquet

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



C Compress - Tourniquet

- Can apply to others or on yourself
- Can be applied over clothes
- Tourniquets HURT
- A second tourniquet may be required to stop the bleeding











CoTCCC Recommended STB Tourniquets

Recommended Non-Pneumatic Limb Tourniquets

- **Combat Application Tourniquet Gen 6 (CAT-6)**
- **Combat Application Tourniquet Gen 7 (CAT-7)**
- **Ratcheting Medical Tourniquet (RMT) Tactical**
- **SAM Extremity Tourniquet (SAM-XT)**
- **SOF Tactical Tourniquet–Wide (SOFTT-Wide)**
- **Tactical Mechanical Tourniquet (TMT)**
- **TX2 Tourniquet (TX2)**
- TX3 Tourniquet (TX3)



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.



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



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









Triage Quick Notes

- **Bleeding from ear, nose, head loosely wrap, don't pack**
- Ensure the tourniquet is always visible
- Junctional areas pack with hemostatic gauze / quikclot and • hold 3 minutes
- Take Care of Arterial Bleeding first
- **Consider jaw thrust for airway control**
- **Consent Explain. And Keep Explaining.**

Mass Casualties / Incidents

- 3 or more victims
- If the scene is safe keep people there •
- Focus on blood control arterial bleeding first
- **EMT/Paramedics/Officers will take command when they arrive**

Simple Triage and Rapid Transport

- Walking = GREEN
- **Respirations:**
- > 30 RED
- < 30 continue assessment

If they need help breathing / airway needs to be opened - RED

Simple Triage and Rapid Transport

Perfusion

- Capillary refill < 2 seconds + radial pulse
- present : Continue assessment
- Capillary refill > 2 seconds OR radial pulse absent : **RED**
- Neurological
- Can they squeeze your hand? **YELLOW** Unresponsive – **RED**

You should be doing neurological assessment if they are <30 respirations without severe difficulty, radial pulse, capillary refill, 2 seconds (keep the environment in mind)

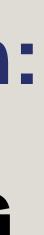
Simple Triage and Rapid Transport

Triage for 8 and under 15 seconds max Same order as START Respiratory <15 or >45 RED Perfusion - no peripheral pulse RED Mental Assessment AVPU

For more information:

STOPTHEBLEED.ORG

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

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