

# When Every Second Counts

## Idaho Time Sensitive Emergency System



**LEVEL IV TRAUMA CENTER**  
IDAHO TIME SENSITIVE  
EMERGENCY SYSTEM

## Trauma

### TSE Trauma Triage

⇒ Assess for life-threatening injuries:

**Circulation**

**Airway**

**Breathing**

**Circulation**

⇒ Use TSE criteria to determine appropriate triage priority

⇒ Determine the most appropriate destination for care

### Trauma Triage Priority Levels

**Priority 1** – Life threatening without immediate intervention and resuscitation

**Priority 2** – Life or limb threatening without urgent treatment

**Priority 3** – Possible life or limb threatening without further emergent evaluation

**TRAUMA**, the fourth leading cause of death in Idaho and the **third leading cause in Boundary County**, is often caused by motor vehicle crashes, falls, drownings, poisonings, suicides, and bicycle/pedestrian accidents.

### Stop the Bleed

- Bleeding is the leading cause of preventable death after injury.
- In an emergency, someone can bleed to death before help arrives (as little as 3 minutes).
- When there are multiple casualties, EMS services may be overwhelmed.
- In an active shooter event, law enforcement must focus on mitigating the threat.

### What's in a Stop the Bleed Kit?

Gloves, Packing Gauze, Compression Bandages, Tourniquet, and Marking Pen  
<https://controlbleedingkits.com/products>



**IDAHO TIME SENSITIVE  
EMERGENCY SYSTEM**  
TRAUMA | STROKE | STEMI

**In 2012, 49.1% of preventable deaths in Idahoans under age 75 were the result of trauma, stroke or heart attack.**



## SAVE A LIFE



AMERICAN COLLEGE OF SURGEONS  
Inspiring Quality.  
Highest Standards, Better Outcomes

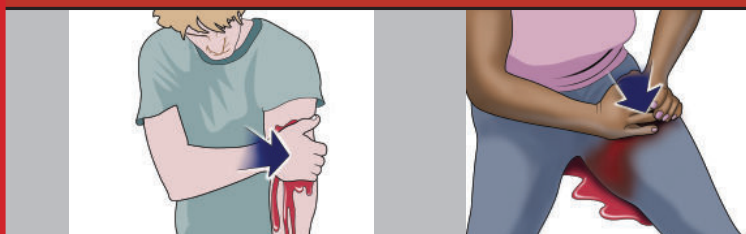


THE  
COMMITTEE  
ON TRAUMA

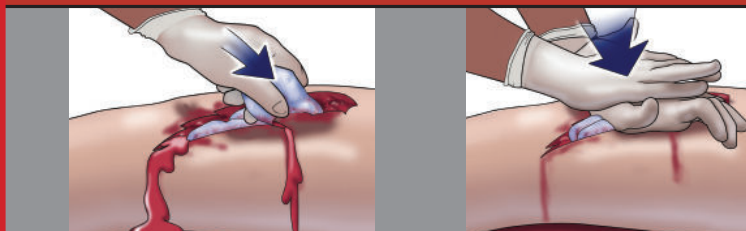


**BLEEDINGCONTROL.ORG**

## 1 APPLY PRESSURE WITH HANDS



## 2 APPLY DRESSING AND PRESS



## 3 APPLY TOURNIQUET



WRAP

WIND

SECURE

TIME

## CALL 911

The 'Stop the Bleed' campaign was initiated by a federal interagency workgroup convened by the National Security Council Staff, The White House. The purpose of the campaign is to build national resilience by better preparing the public to save lives by raising awareness of basic actions to stop life threatening bleeding following everyday emergencies and man-made and natural disasters. Advances made by military medicine and research in hemorrhage control during the wars in Afghanistan and Iraq have informed the work of this initiative which exemplifies translation of knowledge back to the homeland to the benefit of the general public. 'Stop the Bleed' is a registered service mark of the Department of the Defense. Use of the equipment and the training does not guarantee that all bleeding will be stopped or that all lives will be saved. © 2017 American College of Surgeons

**Emergency Open 24/7/365**  
**6640 Kaniksu Street, Bonners Ferry, Idaho**

**Caring for Our Community, Every Day**  
**[www.boundarycommunityhospital.org](http://www.boundarycommunityhospital.org)**



## Time Sensitive Emergency

Boundary Community Hospital in Bonners Ferry has been designated a Level IV Trauma Center by the State of Idaho. The designation for the Hospital is part of the Idaho Time Sensitive Emergency System (TSE) and is reserved for Hospitals that meet the stringent criteria established by the State as part of the TSE system of care that includes three of the top five causes of death in Idaho: trauma, stroke, and heart attack.

**Studies show that organized systems of care improve patient outcomes, reduce the frequency of preventable death and improve the quality of life of the patient.**

## Stroke

### Think FAST

Stroke Cincinnati Pre-Hospital Stroke Scale

**Face:** Ask the person to smile

- does one side of the face droop?

**Arms:** Ask the person to raise both arms - does one arm drift downward?

**Speech:** Ask the person to repeat a simple phrase - is their speech slurred?

**Time:** Time is brain! **Stroke is an EMERGENCY!**

### Stroke Signs and Symptoms

Look for **SUDDEN** -

- **NUMBNESS** or weakness of face, arm, hand, leg, or foot, especially on one side of the body
- **CONFUSION**, trouble speaking or understanding speech
- **TROUBLE SEEING** in one or both eyes
- **TROUBLE WALKING**, dizziness, loss of balance or coordination
- **SEVERE HEADACHE** with no known cause

### Stroke Facts

- Stroke occurs when blood flow to the brain is interrupted by a blocked or burst blood vessel
- 795,000 strokes occur annually in the U.S., causing 130,000 deaths per year
- Stroke is the fifth leading cause of death in Idaho
- 34% of strokes occur in persons under 65 years of age
- Stroke is the leading cause of serious disability in adults
- \$34 billion in U.S. healthcare costs are attributed to stroke each year
- Of the two types of stroke:
  - 87% are ischemic (blood flow blockage)
  - 13% are hemorrhagic (blood vessel bursting)

Without appropriate medical management, a typical large vessel acute ischemic stroke (blockage) may result in the following:

Time Frame	Neurons Lost	Ages the brain by:
Every second	32,000	8.7 hours
Every minute	1.9 million	3.1 weeks
Every hour	120 million	3.6 years
10 hours	1.2 billion	36 years

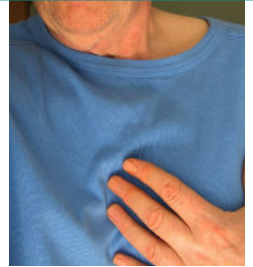


## STEMI:

### The BIG Heart Attack

#### Heart Attack Facts

- Heart attack occurs when blood flow to part of the heart is blocked
- 735,000 heart attacks occur annually in the U.S. (one every 44 seconds)
- One in five heart attacks is fairly "silent"
- Heart disease is the leading cause of death in Idaho and the U.S.
- Heart disease is a leading cause of disability in adults
- There are two types of heart attack:
  - **ST elevation attack (STEMI)** - blockage of a large, major vessel
  - **Non-ST elevation (NSTEMI)** - blockage of a small, minor vessel



#### Signs and Symptoms

- Pain or discomfort
  - Location: chest, upper abdomen, neck, arm, shoulder, jaw, back
  - Quality: squeezing, dull, burning, sharp, cramping
  - Severity: minimal to worst pain ever
- Pale, clammy
- Shortness of breath
- Nausea / vomiting
- Dizziness / generalized weakness
- Other factors can greatly affect the presentation, such as diabetes, female, elderly

Some persons with a **STEMI** may show minimal or very mild symptoms

☞ **Call 9-1-1**

☞ **Immediately chew 2-4 "baby" aspirin or one adult aspirin**

#### STEMI Treatment Options

- Primary percutaneous intervention (PCI) within 90 minutes
- Cardiac cath balloon angioplasty with stent placement
- Otherwise, intravenous thrombolytic medication
- "Clot buster"
- Then follow-on PCI cath

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