

KNIFE SURVIVAL MINIMUM FROM CUT OR PUNCTURE



This is a non-medical tactical chart to provide general bleed out (exsanguination) times of the various arteries of the human body, when completely severed, indicating when the injured person may no longer be

combat effective (experiencing weakness, unconsciousness, or death)

unless the bleeding (hemorrhaging) is stopped. Arterial bleeding is recognized by quick, rhythmic spurts of bright red blood (oxygen-rich).

The intensity of the blood 15 seconds pressure makes blood clotting difficult, and this

is why direct pressure (a field dressing) must 30 seconds

be immediately applied to the injury,

along with indirect

1 to 2 minutes pressure

(a tourniquet) applied above

the injury; for the limbs only.

15 seconds There are 5 liters

(5 1/4 US guarts) of blood in the average adult. An adult's heart pumps that entire amout

throughout the body in one minute at rest. For blood loss 30 seconds from an injury the formula is:

70 mL (2.36 fluid ounces) per heart beat (from the aorta) x number of beats per minute = stroke volume of blood

An injured person can only lose about 14% to 2 minutes of the body's blood before vital signs begin to suffer.

The average time for first responders is 7 to 10 minutes.

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