

NORSTAR

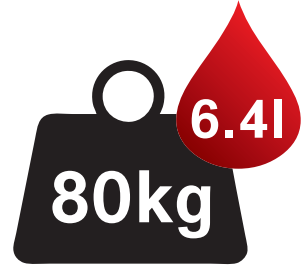
# STOP THE BLEEDING

In case of a critical blood loss, you want to act fast to preserve as much blood in the body as possible. Here are some good reasons why.

## FUNCTIONS OF BLOOD

- Deliver Oxygen to all body cells
- Distribute heat
- Transport waste products (e.g. CO<sub>2</sub>)
- Transport hormones
- Transport nutrients

## BLOOD VOLUME

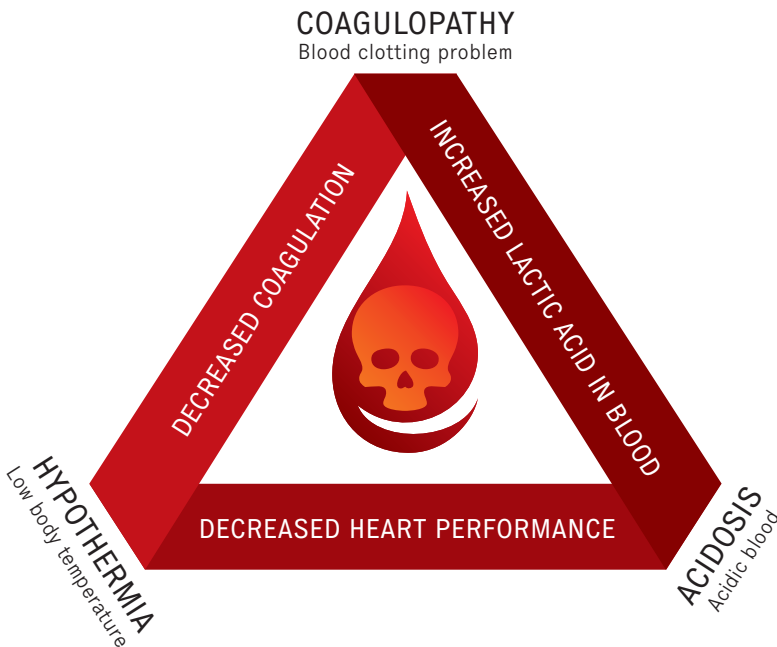


60kg: **4.8l**

70kg: **5.6l**

90kg: **7.2l**

## THE LETHAL TRIAD



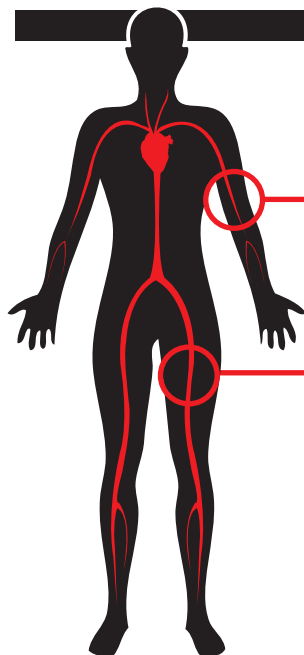
Hypovolemic shock and death can occur if you lose 30% or more of blood. Unconsciousness will happen before that.



Download it on [norstar.ch/resources](http://norstar.ch/resources)

## LOSS OF VOLUME

with a catastrophic injury of the artery



### BRACHIALIS (arm)

**8-12ml**

per heartbeat

**0.8-1.2l**

/ minute

### FEMORALIS (leg)

**14-20ml**

per heartbeat

**1.4-2.0l**

/ minute



Through vasoconstriction (narrowing of the blood vessels) the wound might not bleed a lot in the first few moments. This effect will decrease after a few seconds.

\*Example made with a (under stress) relatively low heart-rate of 100 beats per minute.