



# First Responder

## Lifesaving product stops massive bleeding on the spot

QuikClot™ is a common-sense, inexpensive solution to preventing deaths from excessive loss of blood, the leading cause of deaths from automobile accidents, gunshot wounds, disasters and other events producing traumatic bleeding injuries. In use by the military for in-field treatment of battlefield wounds, QuikClot is now available to civilian emergency response agencies – police, fire and rescue, and EMS.



QuikClot is a new and remarkably effective medical treatment that accelerates coagulation of moderate to severe wounds, including high-volume venous and arterial bleeding. It rapidly removes liquid from the blood to concentrate clotting factors and stop bleeding on contact.

Packaged in a sterile, single-dose package, QuikClot can be easily and safely applied with only minimal instruction. Now anyone who can open a package can become a first responder. QuikClot is completely inert, making it safe to leave in the wound until the victim can be transported to a medical facility.

QuikClot prevents deaths from hemorrhagic shock by stemming blood loss in the critical minutes before the availability of professional medical care. In situations with multiple life-threatening injuries, first responders can immediately stabilize all bleeding victims until triage can be performed.

Testing by the Office of Naval Research proved QuikClot was significantly more effective than other available methods of promoting hemostasis. In fact, it was the only one to achieve zero mortality in treating a severed femoral artery and vein, one of the most severe types of bleeding wounds.

## Features and Benefits

### Effective

- Promotes coagulation within seconds.
- Arrests blood loss to dramatically improve survivability
- Painless, avoiding further discomfort from wound

### Safe

- Bio-inert, no inherent risk of disease transmission
- Non-allergenic
- Sterile, waterproof packaging
- Eliminates excess blood-soaked bandages

### Easy to use

- Single-dose, easy-open packaging
- Can be self-administered

### Economical

- Low cost allows widespread deployment
- No special storage requirements
- Long shelf life

## The safest, most effective treatment for traumatic bleeding injuries

QuikClot is a sterile hemostatic treatment that rapidly accelerates coagulation in large wounds, including high-volume venous and arterial bleeding. It saves lives by arresting hemorrhage before victims go into shock caused by loss of blood. FDA 510(k) cleared.

### Concentrates clotting agents

QuikClot concentrates clotting factors in the blood by promoting extremely rapid adsorption of fluids in and around the wound and creating a matrix for clot formation. The process represents a new approach to hemostasis, which typically involves adding clotting factors rather than extracting elements to halt bleeding.

### Easy to apply and remove

QuikClot is easy to apply. It can be directly poured onto an open, bleeding wound where it promotes formation of a stable, powerful clot. The clot stays firmly in place until the victim can be taken to a medical facility, where QuikClot is easily removed by irrigation or aspiration.

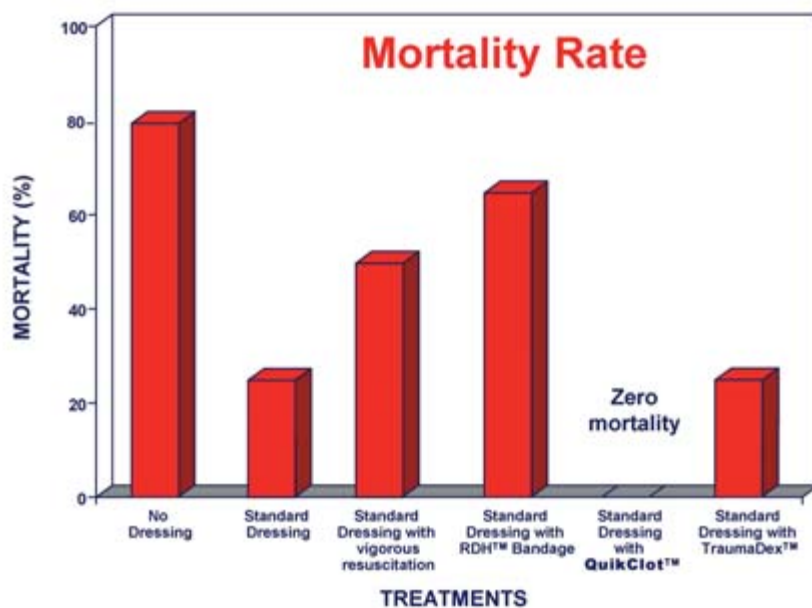
### Non-allergenic composition

QuikClot is a granulated mineral substance whose exact composition is proprietary. Because it contains no biological or botanical substances, it eliminates the danger of an allergic reaction or transmission of disease. QuikClot is safe to leave in the wound until the injury can be treated in a hospital or other medical facility.

### Proven effective

The effectiveness of QuikClot has been proven in extensive testing at the University of Connecticut, the US Marine War Fighting Lab, the Marine Corps Systems Command and the Office of Naval Research (ONR).

ONR conducted comparative tests with other emergency hemostatic agents, using a swine model. Only QuikClot reduced blood loss and increased survivability significantly better than the standard military bandage. In fact, only QuikClot achieved 0% mortality.



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Note: QuikClot is currently approved only for external application, not for intra-operative use.

Z-Medica specializes in hemostatic solutions that save lives. Its sister company, On Site Gas Systems, produces life-saving nitrogen and oxygen generators for use in remote parts of the world.

Z-Medica reflects the vision of its founder, who believes that the greatest privilege in life is to make a difference.

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