



Military

Breakthrough product saves lives on the battlefield

QuikClot™ is a common-sense, inexpensive solution to preventing deaths from excessive loss of blood. It is in use today by the U.S. Armed Forces.

QuikClot is a new and remarkably effective treatment for traumatic wounds that immediately arrests high-volume loss of blood — the leading cause of battlefield deaths. It promises to have a profound impact on improving the survival rate of our fighting men and women.

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 completely severed femoral artery and vein, representative of one of the most severe battlefield wounds.

QuikClot induces rapid 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 almost instantly.

A granular, mineral-based substance, QuikClot is completely inert, making it safe to leave in the wound until the soldier can be evacuated to a medical facility where it can be easily removed by irrigation or aspiration.

QuikClot is safe and easy to apply. Anyone can apply it to a wounded soldier, or it can be self-administered.



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

EVENT: The squad comes under heavy fire; a soldier receives traumatic wound.



WITHOUT QUIKCLOT

SCENARIO:

- Nearest squad mate ceases fire to administer aid to wounded soldier
- Corpsman leaves cover to reach wounded soldier

RESULT:

- Squad firepower is significantly reduced
- Mission is compromised
- Wounded soldier has 50% chance of death from blood loss

WITH QUIKCLOT

SCENARIO:

- Wounded soldier or squad mate administers QuikClot
- Bleeding is immediately arrested
- Corpsman chooses when to leave cover to treat wounded soldier

RESULT:

- Firepower reduction is minimized
- Squad continues mission
- Survivability of wounded soldier is significantly improved

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.

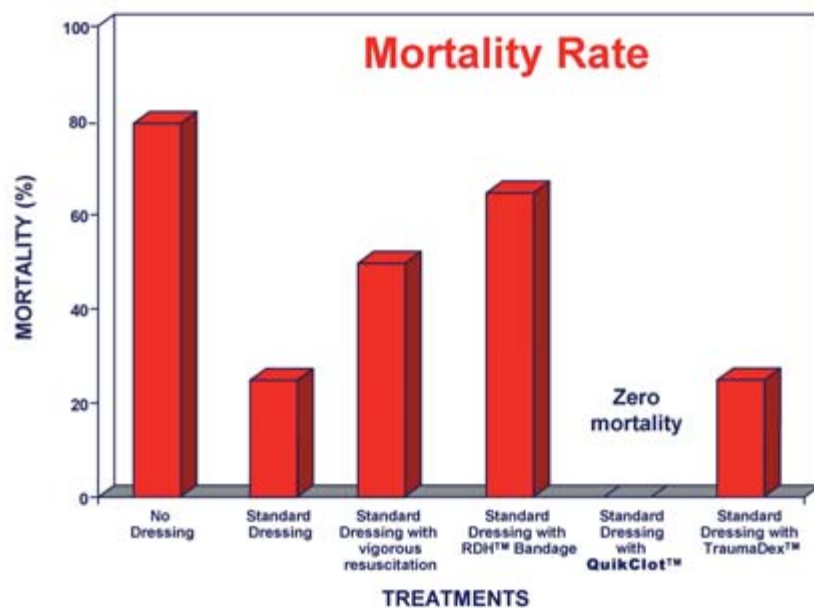
Non-allergenic composition

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.



TraumaDex is a trademark of Medafor, Inc.
RDH is a trademark of Marine Polimers, Inc.

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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Z-MEDICA

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