



QuikClot[®]
**COMBAT
GAUZE**[®]

BATTLE-PROVEN HEMORRHAGE CONTROL



The Hemostatic Advantage of Kaolin — a Mechanism of Action that Delivers Lifesaving Control

QuikClot Combat Gauze® is the first-choice hemostatic dressing for all five branches of the U.S. Military. The effectiveness of QuikClot Combat Gauze is proven in both laboratory research and in battle-zone conditions. It applies easily and accelerates the clotting cascade¹² to quickly form a clot and prevent rebleed³ – saving lives.



IT'S A FACT: *QuikClot Combat Gauze is the hemostatic dressing of choice by CoTCCC.*⁴

The Department of Defense Gold Standard

QuikClot Combat Gauze has a documented record of success proven by extensive data recognized by the U.S. Department of Defense. With more U.S. Military battlefield applications than any other hemostatic dressing, QuikClot Combat Gauze has helped medical operators keep more U.S. Warfighters alive.

QuikClot Benefits



PROVEN RESULTS

In numerous independent studies, QuikClot products have demonstrated improved time to hemostasis^{1,5} and ability to maintain a robust clot during movement.^{5,6,7}



CoTCCC DRESSING OF CHOICE

After extensive review of current data by the Committee on Tactical Combat Casualty Care (CoTCCC) in 2014, Combat Gauze was re-affirmed as the hemostatic dressing of choice.⁴



WORKS FAST

Compared to standard gauze, QuikClot Combat Gauze promotes clotting within minutes^{5,8}, develops a robust clot and allows movement with significantly fewer re-bleeds.^{6,7}



SAFE

There are no exothermic reactions, no human or animal proteins, no thrombin, fibrinogen or shellfish products.



EASY TO USE

The intuitive gauze dressing format⁵ conforms readily to the wound site and will not break down or fall apart under pressure.

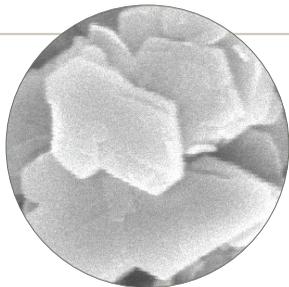


Lifesaver in Domestic Disasters

According to FBI Director James Comey, ISIS is active in all 50 states. Preparing an active medical response to acts of violence is crucial. Some states have led the way in preparedness whereas other states must continue to develop a comprehensive medical response plan. The Department of Homeland Security (Office of Health Affairs) recommends greater accessibility to Public Access Hemorrhage Control (PAHC) Kits.¹¹ QuikClot Combat Gauze[®] is a critical solution to hemorrhage control when responding to natural disasters and Mass Casualty Incidents.

How It Works

QuikClot Combat Gauze is a non-woven gauze with an important difference. Using a proprietary process, QuikClot Combat Gauze is impregnated with kaolin, an inorganic mineral that accelerates the body's natural clotting ability.^{1,2} When applied with pressure, QuikClot Combat Gauze accelerates the clotting cascade and controls bleeding in minutes.⁵



QuikClot[®] COMBAT GAUZE[®]

In 2008, Combat Gauze was recommended as the only hemostatic dressing in the U.S. Military. This was based on extensive testing conducted by the United States Army Institute for Surgical Research (USAISR)^{5,9} and the Naval Medical Research Center (NMRC).¹⁰

After extensive review of current data by the Committee on Tactical Combat Casualty Care (CoTCCC) in 2014, Combat Gauze was re-affirmed as the hemostatic dressing of choice.⁴

June 2, 2014

CoTCCC guidelines state⁴:

"4. Bleeding

- a. Assess for unrecognized hemorrhage and control all sources of bleeding. If not already done, use a CoTCCC-recommended tourniquet to control life-threatening external hemorrhage that is anatomically amenable to tourniquet application or for any traumatic amputation. Apply directly to the skin 2-3 inches above wound.
- b. For compressible hemorrhage not amenable to tourniquet use or as an adjunct to tourniquet removal (if anticipated evacuation time is longer than two hours), use Combat Gauze as the CoTCCC hemostatic dressing of choice. Celox[™] Gauze and ChitoGauze[®] may also be used if Combat Gauze is not available. Hemostatic dressings should be applied with at least 3 minutes of direct pressure."

THE BOTTOM LINE: Military researchers charged with saving American lives say QuikClot Combat Gauze is the hemostatic dressing of choice.

PROVEN PERFORMANCE

Proven in the Laboratory and the Field

Researchers, Military Medics and First Responders have tested the efficacy of Combat Gauze. Here are some of the many documented results.

Study:

Hemostasis in a noncompressible hemorrhage model: an end-user evaluation of hemostatic agents in a proximal arterial injury

Satterly S, Nelson D, Zwintscher N, et al.
J Surg Educ. 2013;70(2):206-211.

- Celox, ChitoGauze, QuikClot Combat Gauze and HemCon bandages were applied to arterial injuries by participants, including military personnel and physicians.
- QuikClot Combat Gauze “was the most effective at controlling hemorrhage” and was “rated as the easiest dressing to use by the soldiers.”

Study:

Boston bombings: A surgical view of lessons learned from combat casualty care and its applicability to Boston’s terrorist attack

Caterson EJ, Carty MJ, Weaver MJ, Holt EF.
J Craniofac Surg. 2013;24(4):1061-1067.

- “Application of this kaolin-impregnated gauze helps to activate the clotting cascade and has been shown to be effective to staunch bleeding on the battlefield.”
- “Tourniquets and combat gauze work quite effectively for extremity trauma.”

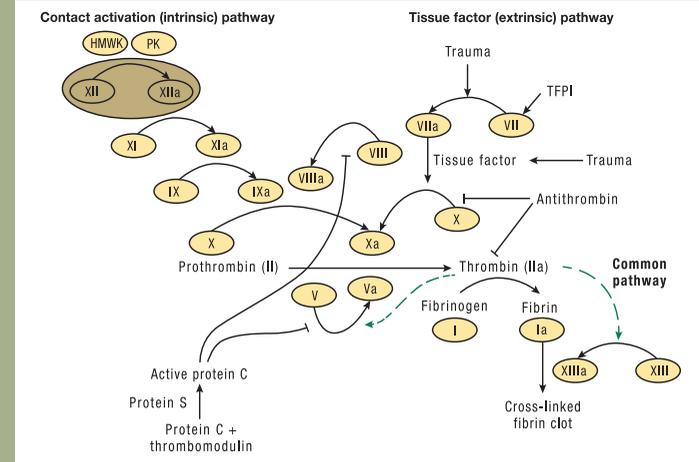
Study:

The effects of QuikClot Combat Gauze and movement on hemorrhage control in porcine model

Gegel B, Burgert J, Gasko J, et al.
Mil Med. 2012;177(12):1543-1547.

- QuikClot Combat Gauze (QCG) and standard packing (control) were assessed in a static and moving hemorrhage model to simulate military and civilian trauma.
- QCG was found to be “statistically and clinically superior at controlling hemorrhage” over control, and QuikClot Combat Gauze “produces a more robust clot that can withstand significant movement.”
- QCG “is an effective hemostatic agent for use in civilian and military trauma management.”

Clotting Cascade



Kaolin works on contact with blood to immediately initiate the clotting process by activating factor XII.¹² This reaction leads to the transformation of factor XII to its activated form XIIa, which instigates the rest of the coagulation cascade.¹²

Faster & Stronger Clots throughout the Continuum of Care

The efficacy of hemostatic dressings should take into account initial hemorrhage control and long-term hemostasis.

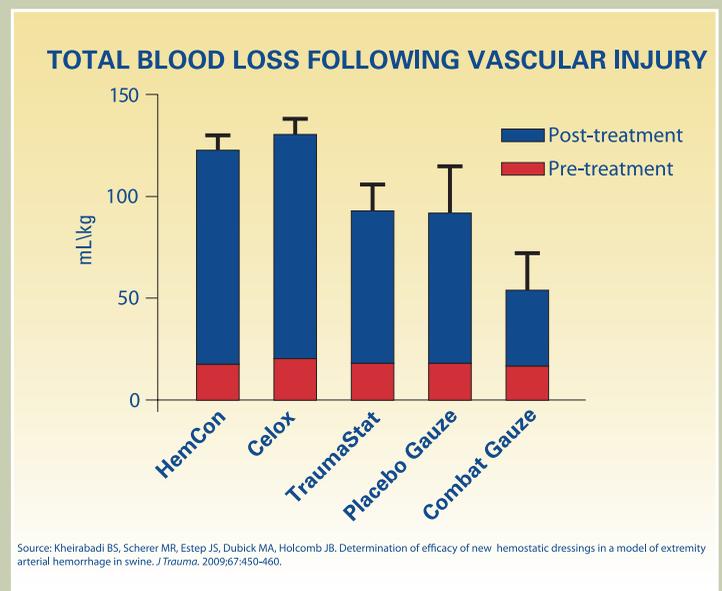
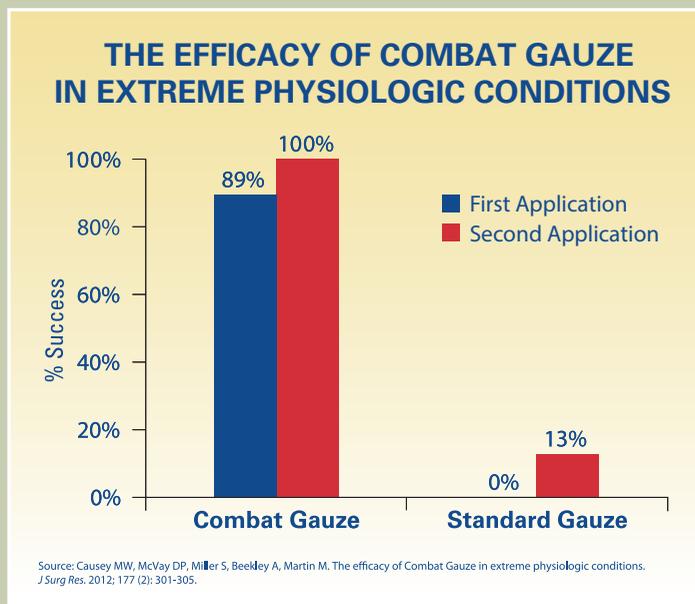
Thromboelastography (TEG) analysis of blood treated with Combat Gauze elicited a strong response, indicating faster and stronger clot formation than untreated blood. The same analysis of the blood samples treated with the chitosan dressing that showed no change or slower clotting function than the untreated blood.⁷

If you’re moving casualties, manipulating injuries or replacing fluids, QuikClot Combat Gauze clots hold up better. Several independent studies prove QuikClot Combat Gauze is highly efficacious during point-of-injury care, care under fire or tactical field care, and forms stronger clots^{5,6,7} that better withstand casualty extrication and rescue, evacuation/tacevac, and fluid resuscitation.

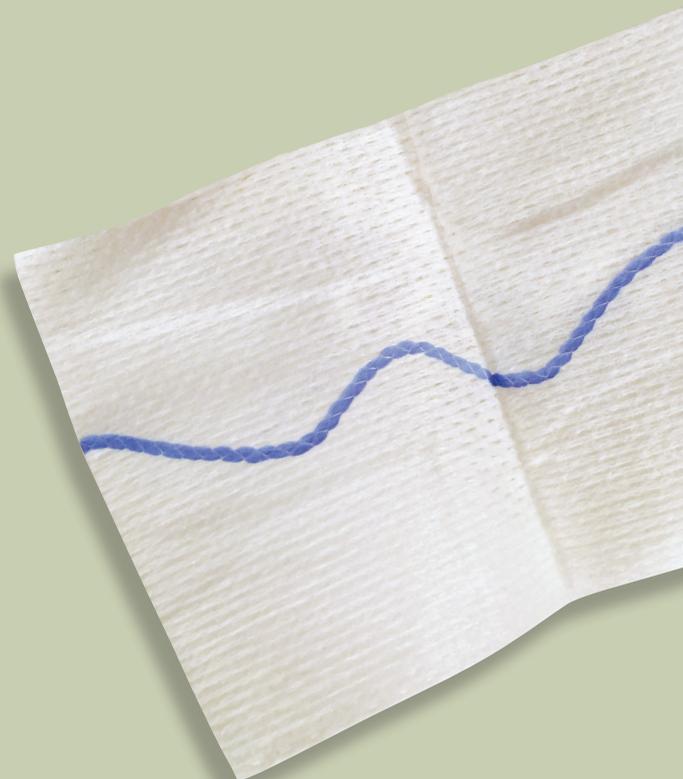
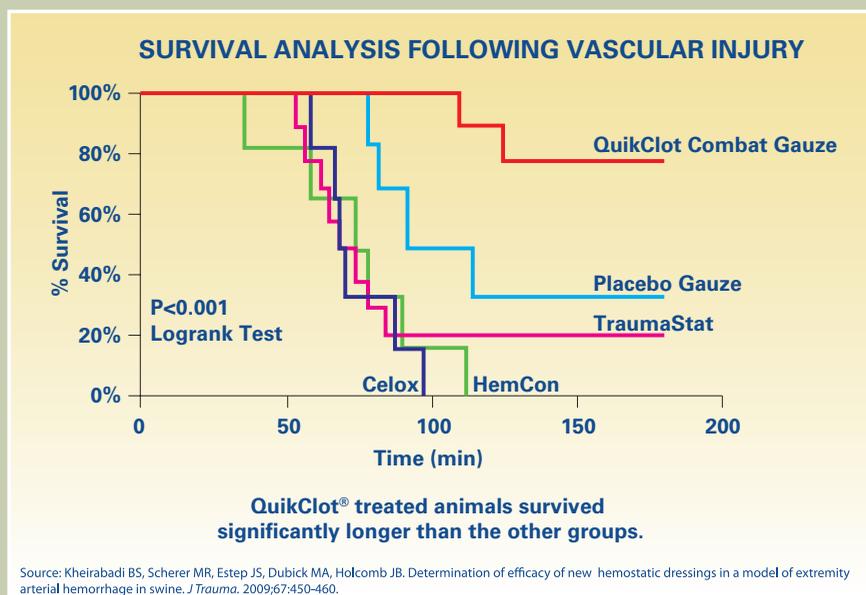
Proven Science with Documented Results

Studies published in leading journals demonstrate how QuikClot® can dramatically improve survival rates when compared to other treatment alternatives.^{5,13}

Compared to standard gauze or other available hemostatic devices, QuikClot has superior results that indicate it can reduce blood loss and promote stronger clots.^{2,5,14,15}



As the analysis below shows, kaolin-impregnated QuikClot Combat Gauze performs better. That proven performance is the reason why QuikClot Combat Gauze is the first-choice hemostatic agent of the CoTCCC.



SIZED & PACKAGED FOR A MORE EFFECTIVE APPLICATION

Military Products



QuikClot products are designed and packaged to make life-saving hemorrhage control as practical and usable as possible. From battle-tested z-folds to x-ray detectable strips, QuikClot products make controlling bleeding easier. QuikClot Combat Gauze products have a five-year shelf life and are packaged in ruggedized, easy-tear, vacuum-sealed pouches, making them both durable and easy to use.

QuikClot®
COMBAT
GAUZE®

QuikClot Combat Gauze®



QuikClot Combat Gauze is a 3-inch x 4-yard dressing with an x-ray detectable strip for easy identification.

Package: 6 in x 4.5 in
Gauze: 3 in x 4 yds
Weight: 0.80 oz

Item #200
NSN: 6510-01-562-3325

QuikClot Combat Gauze® TraumaPad



QuikClot Combat Gauze TraumaPad is a 12-inch x 12-inch soft pad with an x-ray detectable strip for easy identification.

Package: 6.5 in x 5.9 in
Gauze: 12 in x 12 in
Weight: 0.99 oz

Item #210
NSN: 6510-01-583-4870

QuikClot Combat Gauze® XL



QuikClot Combat Gauze XL is a 2-ply, 4-inch x 4-yard dressing with an x-ray detectable strip for easy identification.

Package: 6.7 in x 5 in
Gauze: 4 in x 4 yds – double ply
Weight: 1.80 oz

Item #345
NSN: 6510-01-600-4705

QuikClot Combat Gauze® Moulage Trainer



QuikClot Combat Gauze Moulage Trainer replicates Combat Gauze for simulated casualties using artificial blood. Not for medical use; for simulated training only.

Package: 6 in x 4.5 in
Gauze: 3 in x 4 yds
Weight: 0.80 oz

Item #273

Law Enforcement Products



QuikClot Combat Gauze® LE

QuikClot Combat Gauze LE is a 3-inch x 4-yard z-folded dressing with an x-ray detectable strip for easy identification.

Package: 6 in x 4.5 in
 Gauze: 3 in x 4 yds
 Weight: 0.80 oz

Item #350



QuikClot® EMS Rolled Gauze

QuikClot EMS Rolled Gauze is 3 inches x 4 feet and packaged in an easy-tear pouch.

Package: 5.5 in x 4.1 in
 Gauze: 3 in x 4 ft
 Weight: 0.34 oz

Item #475

EMS Products



QuikClot® EMS 4x4 Dressing

QuikClot EMS is a 4-ply, 4-inch x 4-inch dressing packaged in an easy-tear pouch and packed 3 per clear poly bag.

Package: 5.3 in x 5 in
 Gauze: 4 in x 4 in
 Weight: 0.22 oz

Item #473

BLEEDING CONTROL KITS

QuikClot® Bleeding Control Bag™ (BCB)

The QuikClot® Bleeding Control Bag™ (BCB) is a valuable tool to have on hand for responding to a range of bleeding situations. It can function in a stand-alone capacity or as part of an overall bleeding control program. BCB contents can treat up to 18 injuries. It is designed for ease of use and flexibility, with features including:

- high-visibility orange coloring
- two main compartments
- front and side pockets
- internal pockets
- full-profile zipper so pack lies flat
- shoulder straps and carry handle
- weighs less than ten pounds



Item #547

- Includes C-A-T™

Item #548

- Includes SOF™TT-W

Contents:

Large Front Compartment

- Nitrile gloves

Compartment 1

- EMS-style shears
- Nitrile gloves
- Tourniquets of choice (C-A-T™ or SOF™TT-W)
- QuikClot Hemostatic Dressings

Compartment 2

- Tourniquets

Additional Pockets

- For optional equipment



QuikClot® Belt Trauma Kit™ (BTK)

The QuikClot® BTK™ and BTK™+ are compact, lightweight, wearable holders that cost-effectively add another layer of safety for Law Enforcement officers. Sold individually or as part of an overall bleeding control program, each BTK can control bleeding from one injury. The kits are designed for everyday use, with practical features including:

- sized to fit up to a 2" belt
- lightweight black nylon
- two internal pockets
- can wear horizontally or vertically
- velcro closure

QuikClot® BTK™

Item #261

- Includes SWAT-T™

Item #563

- Includes Mini Compression Bandage

Contents:

- QuikClot Combat Gauze® LE
- Nitrile gloves
- SWAT-T™ (Item #261) or Mini Compression bandage (Item #563)
- CPR shield



QuikClot® BTK™ +

Item #526

- Includes C-A-T™

Item #582

- Includes SOF™TT-W

Contents:

- QuikClot Combat Gauze® LE
- Nitrile gloves
- Mini Compression bandage
- C-A-T™ (Item #526) or SOF™TT-W (Item #582)
- CPR shield



Pictured: BTK

*Not all kit configurations are pictured or listed; please see a sales representative for more details. Kits and their configurations are subject to change without notice.

PROGRAMS TO HELP TRAIN YOUR TEAM



Training Improves Response and Results

The Z-Medica® hemorrhage-training program provides hands-on experience with targeted feedback to help achieve maximum life-saving performance. It is recommended that QuikClot Combat Gauze users complete at least one training program before putting QuikClot Combat Gauze into their life-saving arsenal.

Train Online, Any Time, at No Cost

This proven online training program introduces users to the correct use of QuikClot Combat Gauze products. The no-cost information guides and questionnaires show users the proper bleeding-control techniques and procedures. Trainees receive a printable training certificate after successfully completing the coursework. You can access online training by visiting [z-medica.com/training](https://www.z-medica.com/training).

Innovative, Onsite Training Tools

Z-Medica's team is ready to perform onsite training when appropriate. The team also offers a range of onsite training kits (Task Trainers) to help better prepare users to control bleeding. A complete list of kits and ordering information are on the following page.

Hands-On Know How

Hands-on tools, like the Z-Medica Hemorrhage Control Training (HCT) Kits, are ideal accompaniments to the web-based training. The HCT presents multiple simulated wound patterns on a training "leg." It includes moulage trainers and QuikClot Combat Gauze to give users a realistic training experience. The Z-Medica Hemorrhage Control Training Kit with BioFeedback actually tells trainees if they are applying QuikClot Combat Gauze with the correct pressure and consistency.

TRAINING TOOLS – TASK TRAINERS

Experience Improves Performance

Z-Medica® training kits simulate real-world bleeding challenges, so users get hands-on experience. The kits complement

Z-Medica's online training assets. Together, these powerful tools maximize users' ability to stop bleeding.



Z-Medica Hemorrhage Control Training Kit with QuikClot Combat Gauze

The Hemorrhage Control Training Kit is the ideal hands-on training tool to accompany our online training and programs. It presents multiple wound patterns on which to practice. The kit comes with five QuikClot Combat Gauze Moulage Trainers, five QuikClot Combat Gauze packets and two QuikClot Combat Gauze XL packets for demonstrations and training.

Item #362

Z-Medica Hemorrhage Control Training Kit with BioFeedback

This advanced hands-on training tool is an ideal follow-up to our online training. It includes an app that displays the force trainees apply to wounds on a smartphone or tablet. The kit includes a training leg, table stand, tablet and case.

Item #529 NSN: 6910016427321



Z-Medica Hemorrhage Control Training Kit with QuikClot Combat Gauze LE

The Hemorrhage Control Training Kit with QuikClot Combat Gauze LE is the ideal hands-on training tool to accompany our online training and programs. It presents multiple wound patterns on which to practice. The kit comes with ten QuikClot Combat Gauze LE Moulage Trainers and five QuikClot Combat Gauze LE packets for demonstration and training.

Item #384



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Z-Medica® • 4 Fairfield Boulevard • Wallingford • CT • 06492 • USA • (203) 294-0000 • Z-Medica.com

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