

CELOX™

10
2006-2016
CELEBRATING
10 YEARS
CELOX

Stop Bleeding. Save Lives.

Life Saving Emergency Trauma Products

**Stops life threatening
bleeding fast.**

**Rapid action reduces
blood loss.**

**Stops hypothermic
bleeding as found in
severe traumatic injuries.**



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Stop Bleeding. Save Lives.

The challenge

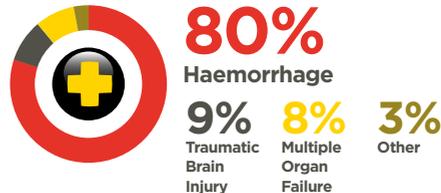
80% of preventable battlefield deaths are due to bleeding.

Haemorrhage or bleeding remains the main cause of preventable death on the modern battlefield and this is consistent in studies from the recent conflicts in Iraq and Afghanistan¹.

Bleeding is not just a military problem however; trauma is the main cause of death in adults under the age of 40 and haemorrhage is responsible for 30 to 40% of all trauma deaths².

Out of these deaths, up to half occur before even reaching hospital. To add to the problem, in the severe trauma cases, the blood no longer clots normally, due to the body cooling or the shock reaction to the injury.

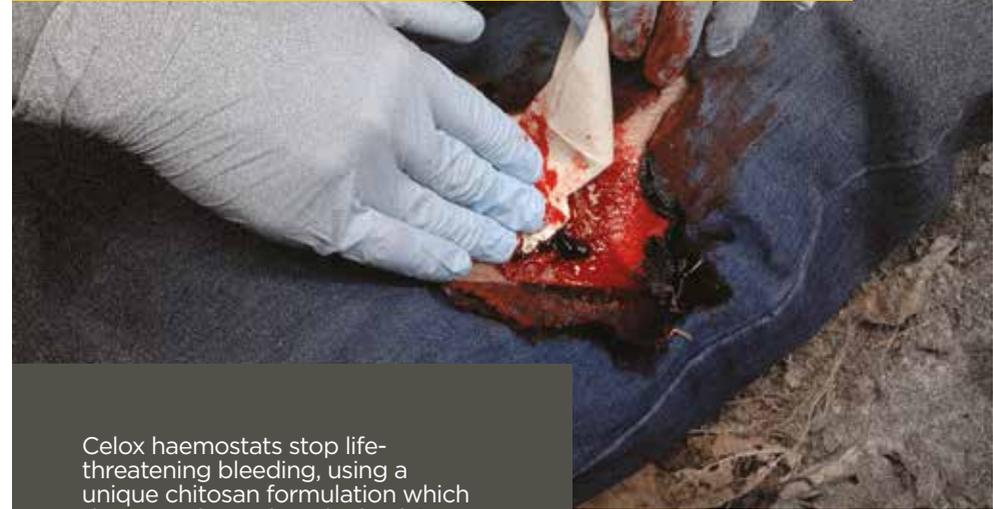
Causes of survivable death:



Fast and effective treatment is needed to save lives.

The solution

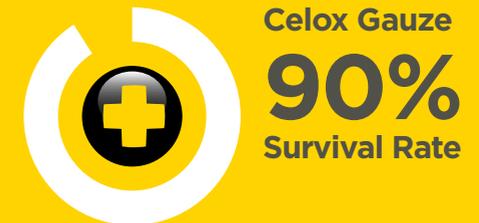
Celox stops bleeding fast



Celox haemostats stop life-threatening bleeding, using a unique chitosan formulation which does not depend on the body's clotting system and does not generate any heat.

Celox granules have been shown to work on the most challenging cases: hypothermic (cool) blood and blood containing anticoagulants such as heparin.

Celox is easily cleaned and removed when the patient reaches surgery and because there are no minerals, residual chitosan material can be metabolized.



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1. Eastridge B et al. J Trauma 2011; S4-S8.
2. Kauvar DS et al. J Trauma 2006; 60:S3-S11.

Reference: Rall J et al. J Trauma 2013; 75 S150-S156.

Celox™ Rapid The fastest acting battlefield haemostat

The latest haemostatic technology with unique Chito-R augmented chitosan giving faster emergency treatment in critical life-threatening situations.

The current generation of haemostatic agents require at least 3 minutes of compression to work. Celox™ Rapid Gauze removes the delay by speeding up packing time and reducing compression time to just 60 seconds, while using the proven haemostat technology of Celox™.

Celox™ Rapid gauze is suitable for:

Works with just 60 seconds compression¹.

Stops life threatening bleeding fast.

Reduces blood loss by 60%².

Stops hypothermic bleeding³ as found in severe traumatic injures.

1. Reduced application time with a rapid-packing gauze haemostat. A Hoggarth et al. Poster at ATACCC 1, FL.
2. Kunio N et al. Am J Surg 2013; 205: 505-510.
3. Medtrade data on file.
*Trademark of Z-Medica Corporation.

How Celox™ Rapid works

Celox™ Rapid contains Chito-R™ activated chitosan granules that stick to wet tissue in the wound¹. Chito-R™ is bonded to a high density gauze that packs faster than traditional gauze.



Scan to learn more

Works on hypothermic blood;

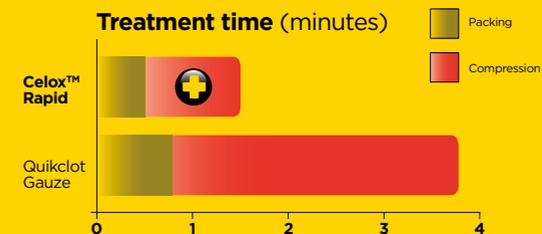
No minerals, chitosan is made up of glucosamine and N-acetyl glucosamine.

Celox™ Rapid is Non-allergenic and no heat is generated.

Celox™ Rapid has been independently shown to reduce blood loss by 60%² compared to Quikclot Gauze*.

Celox™ Rapid stays in place during casualty transit¹.

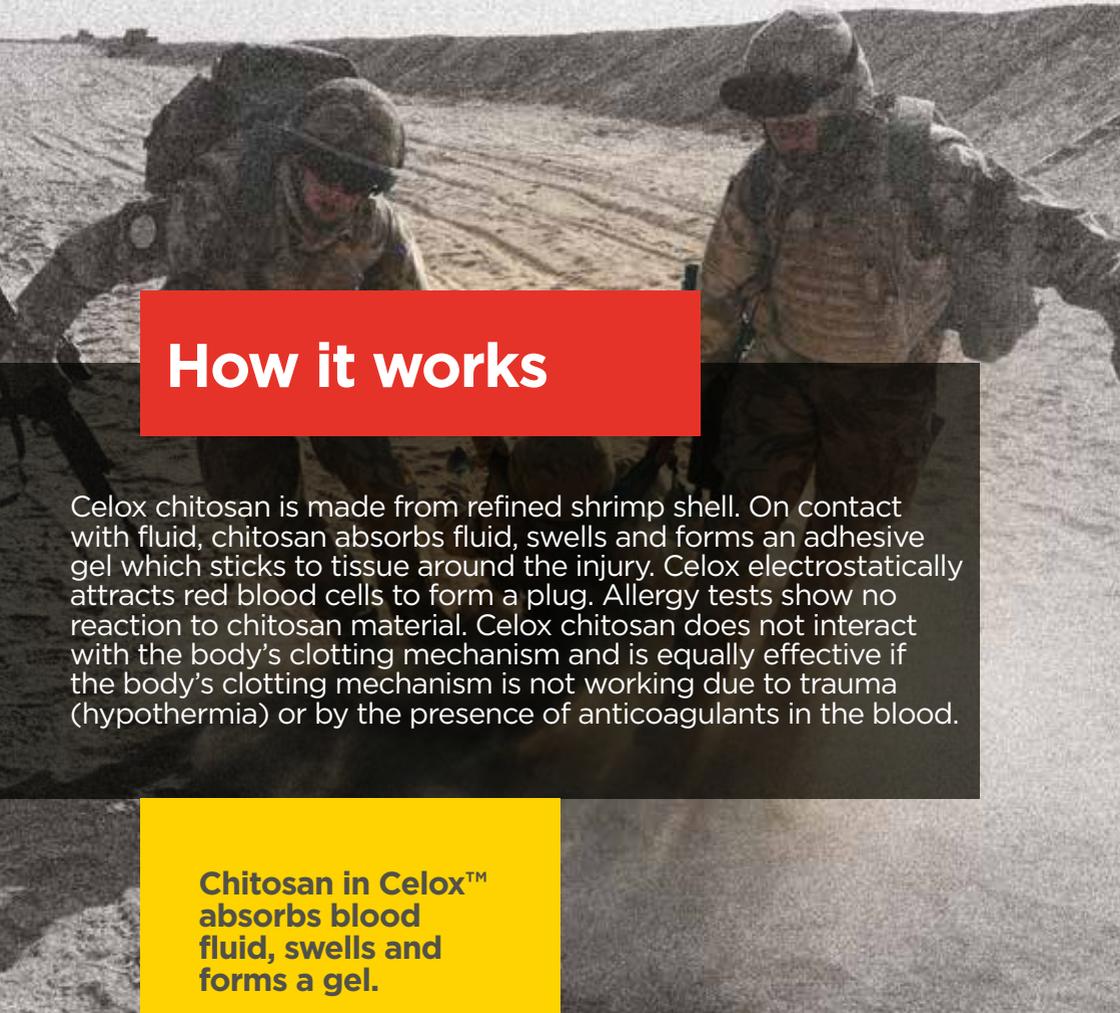
Faster treatment time may improve casualty survival and aid treatment of multiple casualties



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How it works

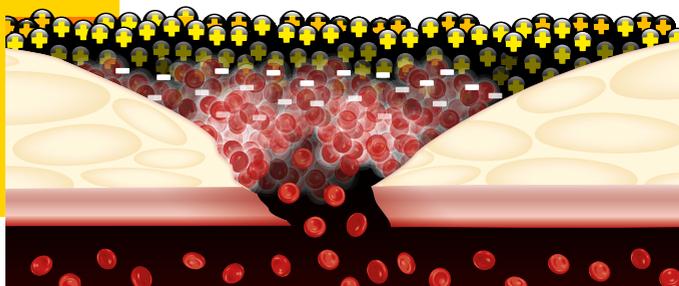
Celox chitosan is made from refined shrimp shell. On contact with fluid, chitosan absorbs fluid, swells and forms an adhesive gel which sticks to tissue around the injury. Celox electrostatically attracts red blood cells to form a plug. Allergy tests show no reaction to chitosan material. Celox chitosan does not interact with the body's clotting mechanism and is equally effective if the body's clotting mechanism is not working due to trauma (hypothermia) or by the presence of anticoagulants in the blood.

Chitosan in Celox™ absorbs blood fluid, swells and forms a gel.

Celox™ forms a gel-like plug that stops the bleeding.

Does not rely on the body's own clotting mechanism.

No heat generated.



Celox™ Gauze As trusted by the UK Ministry of Defence

The proven and effective haemostatic gauze.

The sole Haemostat of choice for the UK MOD.

Highest observed survival in US DoD testing¹.

Used in pre-hospital and by emergency responders around the world.



Scan to learn more



Celox Gauze
90%
Survival Rate

70%
Chitogauze™
Survival Rate

60%
Combat
Gauze™
Survival Rate

Reference: Rall J et al. J Trauma 2013; 75 S150-S156.

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1. Rall J et al. J Trauma 2013; 75 S150-S156.

Celox™ Granules Proven haemostatic control

Celox™ -A Treats penetrating wounds fast

The original first generation Celox haemostat in 15 gram sachet.

Moulds to irregular wound shapes.

Easy to use.

Significantly reduces blood loss¹.



Scan to learn more



Get to the source of the bleeding.

High-speed applicator pre-packed with 6g of Celox granules.

Treats narrow entry wounds such as bullet, blast fragment, stab injuries.

Unique delivery system.



Scan to learn more



1. Kozen B et al, J Acad Emer Med 2008; 15: 74-81.

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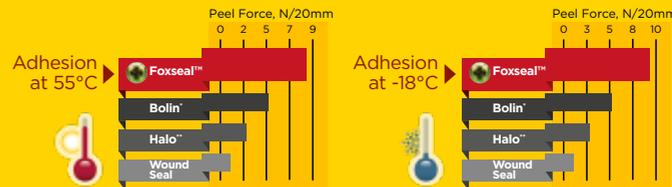


The chest seal you can trust.

Foxseal™ Chest Seal is a pioneering occlusive dressing for the treatment of open chest wounds as a tool in prevention of pneumothorax. Other dressing options are often folded when carried in kits, leading to a permanent crease which can prevent a true seal. Foxseal is a compact size to fit neatly into pouches, to avoid creasing. Two seals per pack allow entry and exit wounds to be treated. Patient monitoring is vital in these injury types and the design is a simple valve-free option, for simple use. The chest can be vented with the easily-gripped tab and the adhesive re-seals.



Provides dependable adhesion in the most challenging situations.



Ordering Celox products

Please use product codes when ordering

Celox Rapid Gauze
Z-Fold 5ft
Product code: **FG08839021**

Celox Granules 15g
Product code: **FG08830181**

Celox Gauze Z-Fold 5ft
Product code: **FG08838031**

Celox -A Applicator with 6g Granules
Product code: **FG08832021**

Celox Gauze Rolled 10ft
Product code: **FG08834011**

FOXSEAL Chest Seal
Product code: **FG08814441**

For ten years Celox has been stopping bleeding, fast.



Since 2006 when Celox granules were first introduced as a novel haemostat, Celox trauma products have been used to save the lives of soldiers and civilians alike.

The origins of Celox go back to research carried out on chitosan in the 1980's and 90's. The ethical philanthropist and marine biologist Tim Evans held the rights to this work and continued to develop it with his research team in the USA. Tragically Tim was diagnosed with a terminal illness in the early 2000's, at which time he contacted his friend at Medtrade Products in the UK, to review the work

and identify one viable and beneficial product to bring to medical use. Medtrade and the US team turned the work into Celox haemostatic granules, obtaining the first regulatory license in June 2006. Happily Tim survived to hear the news of the first customer order for Celox in late 2006.

Celox grew from there, with the second generation Celox-A applicator providing improved delivery, then the third generation product: Celox Gauze in 2008 which went on to become the UK MoD product of choice. Now Celox Rapid Gauze leads development in this field, being the first gauze with a compression time of just one minute. At the same time with our background in wound care, we developed the Foxseal Chest Seal to expand our range of life-saving trauma products.

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