



Stops Bleeding. Saves Lives.

Example cases

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Life-threatening Bleeding

- Jugular injury
- “miracle dressing” allows patient to transfer to hospital.

An eye witness has praised emergency staff who saved a tree surgeon's life after he suffered horrific injuries to his neck. The 21-year-old man was working 25 feet up a tree when he slipped and inflicted deep wounds to his neck and arm with a chainsaw. The man had blood spurting from the wound as he dangled in mid air until his colleague managed to lower him to the ground. He was still conscious when paramedics arrived and asked them if he was going to die - but thanks to their expertise he survived. Anthony Lockier, in whose garden the tree stands, said “I can't praise the paramedics enough. They saved his life. They were less than two minutes getting here and I think that was what saved him,” said Mr Lockier. The paramedics managed to staunch the bleeding until the Helimedix team led by Dr James French and EEAST Critical Care Paramedic Dan Cody could arrive via helicopter. The Magpas team ventilated the patient before packing his injuries with Celox - a specialist gauze used to treat troops in Afghanistan who have suffered major injuries. And it was thanks to this 'miracle' dressing that the man was stabilised and the bleeding stopped so he could be airlifted to hospital.” He was flown to Addenbrooke's Hospital in Cambridge where he underwent immediate surgery to repair the blood vessels in his neck. Fortunately he came through the surgery and was well enough to be transferred to the Royal National Orthopaedic Hospital in London, for nerve repair to his left arm the following day. Mr Lockier added: “Without those paramedics I am certain he would have died. I can't praise them enough. Magpas.org.uk



Life-threatening Bleeding Cont.

- Blast injury
- “life saving intervention”
- Use of Celox Applicator
- Open pelvic fracture
- Mountain rescue service
- “helped save the young lads life”

‘ ..The Celox applicator that I used was very easy. I actually primed the end of the barrel a little to make sure that it was not clogged. I inserted it about 2 inches into the wound and inserted all of its contents without any problems in about 1 second. The wound was a blast injury with some major distal bleeding. The laceration was about 7 inches in length and full thickness to the bone with major cavitation. One of the distal vessels in the leg was bleeding very badly and when I saw him he had on a tourniquet. The Celox was introduced with a bandage and the tourniquet was removed. There was no further bleeding from the wound. This was my first time using the new applicator and as I expected, it worked amazingly. The tube filled the wound deep and directly where I needed the Celox. Of course the Celox did an amazing job getting the bleeding under control and made the patient more stable, manageable and was a life saving intervention...’
J.S - Navy Seals Medic

‘As it turned out, yesterday afternoon we were called to a fallen climber with an open pelvic fracture who very nearly exsanguinated and died at the bottom of the crag. I used Celox, and it managed to control his massive external haemorrhage until he reached the hospital via air ambulance.

The Consultant receiving the patient at the hospital was very complimentary about Celox, saying it probably helped save the young lads life. I think you’ll be getting a few more orders from mountain rescue now!’
Dr Steve Rowe, Medical officer PDMRO and Edale MRT



Life-threatening Bleeding Cont.

- Life-saving intervention in a child
- Road traffic accident
- Scalp laceration

The middle aged male was holding an infant that seemed to be bleeding profusely. The infants head had been cut severely and looked to be fatal if not treated extremely quickly. The skin was cut an inch from the centre of the forehead all the way down to the middle of the ear, 4 - 5 inches minimum. After getting my medical kit I approached the infant again and told the father that we need to place the skin back where it should be and then put CELOX on the wound to stop the bleeding or else the infant would die of blood loss. I told the father to hold the infant as still as possible and for the boy to not open his eyes, as the CELOX could not enter his eyes. I placed the skin back into place the best I could. I then poured the CELOX onto the skin and wrapped the bandage around the infants head. I then took my permanent marker and wrote, "CELOX - Haemostatic agent - used on infant." I gave the package of CELOX for the father to hold and give to the paramedics. The EMS crew said that if I wouldn't have rendered aid or had a medical kit of this stature on my person, the infant would have best case scenario severe brain damage due to massive blood loss or most likely the bleeding would have proven fatal. If not for the product CELOX this infant would have died.

Zachary

- Gunshot wound to chest.
- Celox allowed paramedics to focus on other life saving measures

I work as a Paramedic at Skyline Hospital in White Salmon, WA. I want to share my experience with the Celox product.

Our crew was dispatched to a large caliber GSW to the chest. After isolating the right lung, both entrance and exit wounds were sealed using the Celox product. The patient was able to maintain excellent vitals through-out the transport to the receiving hospital. Celox enabled us to focus less on the injury and more on other life saving skills. All staff members involved commented on the lack of blood loss present for such a significant wound. After seeing the effectiveness of this product I recommend using Celox as the first-line in haemorrhage control agent.

Nicholas



Blast Injury

- Blast injury
- “life saving intervention”
- Use of Celox Applicator

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Gunshot Wound

- Gunshot wound to chest
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Nicholas

- Gunshot wound to neck.
- Deep bleed controlled with granules.

A 24 year old male patient was brought to the emergency service with a gun shot wound to the left supra-clavicular area and neck. Median sternotomy was performed and the incision was prolonged to include the left supra-clavicular region. Injuries to the left subclavian artery and vein, the left common carotid artery and to the left internal jugular vein were identified. The damaged vascular structures were surgically repaired and the haemorrhage from those areas was controlled. However, on the left side of neck there was haemorrhage from deep cervical areas and it was impossible to clearly identify its origin and achieve control surgically by suture or mechanically by pressure. Eventually Celox granules were applied into the bleeding area and compressed with a sponge for a 5 minute period. This achieved haemostasis.

Provided by Russell Millner, Blackpool Victoria Hospital, UK



Gunshot Wounds / Stab Injury

- Used on police officers, victims and suspects.
- Gunshot wounds, stab injury, road traffic accident

A Gainesville Police officer helped save the lives of eight people by putting together a trauma kit containing items used by the U.S Military. About a year and a half ago, GPD Chief Norman Botsford asked several officers how the department was going to combat the rise in violence. "My suggestion was to create a trauma kit and train all GPD personnel on how to use it," Sgt. Dan Stout said. He said his motive for putting the kit together stems from his background as a paramedic and his military experience. "I served as a medic on the SWAT team," Stout said. "And when I was in the military, I lost a lot of people that I knew." The first priority of the kits was to treat officers injured on duty, but the kits have been used on victims and criminals. The kit's most innovative ingredient is Celox, an agent that helps control life-threatening bleeding. "It is not meant for the little scrapes and boo-boos," he said. "It is a resort of last means that clots arterial bleeding when nothing else is working." Celox was used in Alachua County on gunshot and knife wounds and also motor vehicle accidents. "It has been used with limited capacity by the SWAT team for five years," Stout said. "Since we have done the training, it gives officers and their families a lot more confidence that they will be returning home at the end of their shifts." In the spring of 2008, Stout said the Alachua County Sheriff's Office and the GPD responded to a bank robbery. "The suspect attempted to kill himself by slicing his throat with a box cutter," Stout said. "This was the first time GPD used Celox, and we saved his life." By seeing the effect of the clotting agent, ASO approached Stout and asked him if he could create trauma kits for the department and train its deputies. Twenty-four hours after Stout taught the ASO deputies how to use the kits, they put their training into practice. "They used the Celox to clot the blood of a motorcyclist who had to have his leg amputated at the scene," he said. Stout said GPD is the first law enforcement agency to deploy the kits the way they did by training all of its employees and having all uniformed patrol carrying them in their cars. The kits also include a military tourniquet and a bandage meant for bullet or stab wounds to the chest. All eight residents treated with the kit have survived.

Alligator.org



Stab Injury

- Stab injury to neck
- Celox applied “blind”

50 year old male was admitted with a stab wound to the root of the neck and a massive haemothorax. He was transferred emergently to the operating room and underwent a thoracotomy. In spite of liberal use of conventional haemostatic agents and blind attempts at overseeing the bleeding site control could not be achieved and he suffered a cardiac arrest in the presence of ongoing bleeding. He was resuscitated and Celox applied to the site of the injury. Haemodynamic stability was immediately achieved as the bleeding then stopped.

Provided by Russell Millner, Blackpool Victoria Hospital, UK



Road Traffic Accident

- Life-saving intervention in a child
- Road traffic accident
- Scalp laceration

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Zachary

- Crush injury
- Rapid control of bleeding.

"...Regarding CELOX, we have some results from one of the biggest hospitals in Lithuania; they tried it on a man whose hand was crushed in a car accident and they are very happy with the results as the bleeding was stopped very quickly..."

Audrius J



Road Traffic Accident Cont.

- Used on police officers, victims and suspects.
- Gunshot wounds, stab injury, road traffic accident

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Alligator.org



Infant / Juvenile

- Scalp laceration controlled in 30 seconds in a child
- Prevent large volume blood loss

"Several days ago my daughter dropped a standing mirror on herself, making 5 deep cuts on her face. She was bleeding very badly, so I ran and grabbed the Celox granules and applied them to the wound. After 20-30 seconds the bleeding stopped and she came out of shock. Once at hospital the doctors were amazed at how the Celox granules had stopped the bleeding and controlled a potentially fatal injury. A Doctor stated that a wound so near to the forehead would be very hard to control with towels, and the use of the haemostatic granules reduced the large quantity of blood she would have lost. I was surprised at how quickly Celox stopped the bleeding."

AJ, Lithuania

- Life-saving intervention in a child
- Scalp laceration

The middle aged male was holding an infant that seemed to be bleeding profusely. The infants head had been cut severely and looked to be fatal if not treated extremely quickly. The skin was cut an inch from the centre of the forehead all the way down to the middle of the ear, 4 - 5 inches minimum. After getting my medical kit I approached the infant again and told the father that we need to place the skin back where it should be and then put CELOX on the wound to stop the bleeding or else the infant would die of blood loss. I told the father to hold the infant as still as possible and for the boy to not open his eyes, as the CELOX could not enter his eyes. I placed the skin back into place the best I could. I then poured the CELOX onto the skin and wrapped the bandage around the infants head. I then took my permanent marker and wrote, "CELOX - Haemostatic agent - used on infant." I gave the package of CELOX for the father to hold and give to the paramedics. The EMS crew said that if I wouldn't have rendered aid or had a medical kit of this stature on my person, the infant would have best case scenario severe brain damage due to massive blood loss or most likely the bleeding would have proven fatal. If not for the product CELOX this infant would have died.

Zachary



Coagulopathic

- Patient on anticoagulant (coumadin)
- Prevents trip to ER

I purchased and used your product... I am on Coumadin since Jan 2009... I have been to the ER three times to stop bleeding since Jan. I have used Celox four times recently and it is amazing! I have given packs to several of my friends who are on Coumadin.

I have not been to the Emergency Room since I got your product. I need more info on how to clean the area after using Celox to stop bleeding.

Keep up the good work and let me hear from you.
Consumer.

- Clotting despite low platelet count
- Head laceration.

"...Had a patient with leukaemia yesterday and head laceration. Older person from a nursing home. Bleeding briskly and large scalp hematoma. Medics milked out hematoma and put CELOX into the wound. Worked like a charm. Her platelet count was low but she still clotted..."
Marv



Nose Bleed

- Nosebleed
- Anticoagulant – Warfarin
- Saved the patient a trip to the hospital

I recently had an ideal opportunity to test the effectiveness of Celox Nose Bleed dressing – an elderly patient on warfarin with a prolonged and continuous nose bleed. Visualisation of the bleeding point was impossible. The Celox pad was easy to insert and after 3 minutes of pressure the blood had stemmed to a trickle. After a further 5 mins of pressure the bleeding stopped completely. I was even more impressed on removal of the clotted pad after 30 minutes – the nasal cavity was completely bloodless allowing easy visualisation and cautery of the offending vessels. I am convinced Celox saved the patient a trip to the hospital.

I highly recommend these to all GP's instead of using uncomfortable nasal tampons which furthermore cost 3 times more. Ideal also for self management for anyone on warfarin or prone to problematic nose bleeds.

A very impressive, inexpensive and simple to use product.
JC, GP, New Zealand.

- Nosebleed in arid, austere environment

"Before I deployed to Iraq I was able to obtain a sample of Celox. I augmented my IFAK (individual first aid kit) with Celox as well as other items. I had a large and small packet of the Celox granules. The small packet came in handy when I had a patient present to my aid station with a severe case of Epistaxis very early in the morning. I tried everything I knew of to stop the bleeding but to no avail. I then went for the Celox and that did the trick. Working in such an arid climate as Iraq the nose dries out and people are subject to nasty nose bleeds."

John Tarantino, Florida US



Military

- Blast injury
- “life saving intervention”
- Use of Celox Applicator

‘ ..The Celox applicator that I used was very easy. I actually primed the end of the barrel a little to make sure that it was not clogged. I inserted it about 2 inches into the wound and inserted all of its contents without any problems in about 1 second. The wound was a blast injury with some major distal bleeding. The laceration was about 7 inches in length and full thickness to the bone with major cavitation. One of the distal vessels in the leg was bleeding very badly and when I saw him he had on a tourniquet. The Celox was introduced with a bandage and the tourniquet was removed. There was no further bleeding from the wound. This was my first time using the new applicator and as I expected, it worked amazingly. The tube filled the wound deep and directly where I needed the Celox. Of course the Celox did an amazing job getting the bleeding under control and made the patient more stable, manageable and was a life saving intervention...’
J.S - Navy Seals Medic

- Deep femoral bleed

"...I finally got to try CELOX and was very impressed. Had a casualty in a controlled environment with a deep femoral bleed. A tourniquet was initially placed on the wound. The wound was wiped out with Kerlix and CELOX was poured into the wound. The tourniquet was removed, whilst direct pressure was applied to the wound. After 6 minutes pressure was removed and everything was good..."
SSG(P) Jason

- Epistaxis in austere arid environment

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John Tarantino, Florida US



Military Cont.

- Easy to use and train people on

"...I had the opportunity to use CELOX on numerous times on some serious wounds and was very impressed. I found it to be the easiest to use and the easiest to train people to use. It also allowed for the correct of improper placement after initial application. When I used the product I used it like it would be used in combat. We applied the CELOX, packed the wound with gauze and wrapped it up with an elastic bandage (or in some cases we did all of this with an Olaes bandage). As soon as it was wrapped, we let it go and moved on to other injuries or engaged the "enemy". It worked very well. We never held direct pressure for more than 1-2 minutes..."

Ross - Retired 18-D

"...We have tried the new CELOX and found it to be a really great product..."

Ian T - MD, Canada

- Works in "the real world"

"...I have used your product in the real world and it works great, plus the price and performance is twice that of the competitive products. I am trying hard to get my command on board but do not have any left on me to show them. I only had three packages and used them all. If I can get command on board I will be purchasing a large amount on a regular basis. am a senior medic with 1st Special Forces Group out of Okinawa, Japan..."

Bert

- Easy to use
- Every soldier should carry Celox

"...I can tell you right now as for myself, CELOX is without a doubt the most exciting haemostatic dressing I have had the opportunity to work with. It is extremely easy to use, almost foolproof. I believe every soldier, not just every medic should carry CELOX on their kit..."

SSG D



Military Cont.

- Impressed by clotting capability

"...Some of my medics used CELOX a few weeks ago and were very impressed with its clotting capability. We only had one re-bleed but that was because the medic didn't actually visualize the site and simply poured the packet into the wound cavity. Repositioning the patient so the CELOX came in contact with the wounded artery solved the problem without the need for a second packet..."

Ken B - US Army

- Make a medics job easier

"...I guess I'll start off by saying I'm bad with names. I guess if it's not written on their uniform I tend to forget. I really enjoyed the presentation of the product, I will say I was skeptical, until I tried it for myself. I really love the product, to the point of most of the medics are putting a fund together, if the army won't buy it for us we will buy it ourselves. I want to thank you for bringing another product to the table that will make my job that much easier..."

MA Bravo 4-9 Cav



Emergency Service

- Jugular injury
- “miracle dressing” allows patient to transfer to hospital.

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Emergency Service Cont.

- Gunshot wound to chest
- Celox allowed paramedics to focus on other life saving measures

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Nicholas

- Standard methods unable to control bleeding

"...We had an elderly lady with a massive facial tumour who developed bleeding from her tumour at home. Fire departments were not able to control bleeding. Evacuation by paramedics with the ambulance service not able to stop the bleeding with pressure either. The paramedic then chose to use CELOX and with pressure the bleeding was rapidly controlled and the patient was transported to the emergency room for definitive care. The emergency department was very happy with the care provided to the patient..."

EO, Professor of Emergency Medicine and Family Medicine

- Varicose vein bleed not controlled by pressure
- No re-bleeding even after Celox washed off

The case was a 48 year old male with varicose veins in his leg and foot. EMS was called after one began bleeding. Simple pressure was not very effective in stopping it. EMS applied Celox and bandaged the foot. He came to the ED with no further bleeding. Celox was washed off and he was discharged without further need for treatment.

Marvin Wayne, MD, FACEP, FAAEM



Emergency Service Cont.

- Traumatic foot amputation controlled.

The Magpas Helimedix (Dr Anne Booth and Volunteer Paramedic Miss Jo Lambert), were called to a serious incident by the river at Chapman Way in Eynesbury, St Neots on Saturday evening (11th June 2011). A 65 year old man from Stevenage was with friends on their boat, when he fell into the water and caught his foot in the propeller – amputating his foot in the process. The patient was given A& E level critical care by the Helimedix; who administered analgesics and controlled the bleeding using a tourniquet, celox gauze and a wound dressing. He was also given antibiotics. The Magpas team worked with the emergency services to move the patient from the deck of the boat to the shore and then onto an ambulance. He was then transferred to Addenbrooke's Hospital (accompanied by the Helimedix), where he was taken to an operating theatre for surgery. His condition is described as serious. The patient's wife also had a laceration to her forehead and was treated by the ambulance crew on the scene. The Police, ambulance and fire crews worked well together at this incident. Magpas Dr Anne Booth said, "The pleasant day out for this man and his wife ended in tragedy with this awful incident. We are extremely grateful to the people of Cambridgeshire and beyond for supporting Magpas – The Emergency Medical Charity, enabling us to provide this man with the care that he would have received in the Emergency Department. As a result, we were able to prevent him losing more blood and to relieve his pain. We wish both the patients a swift recovery".

Magpas.org.uk



Emergency Medicine / Hospital

- Clotting despite low platelet count
- Head laceration

"...Had a patient with leukaemia yesterday and head laceration. Older person from a nursing home. Bleeding briskly and large scalp hematoma. Medics milked out hematoma and put CELOX into the wound. Worked like a charm. Her platelet count was low but she still clotted..."
Marv

- Crush injury
- Rapid control of bleeding.

"...Regarding CELOX, we have some results from one of the biggest hospitals in Lithuania; they tried it on a man whose hand was crushed in a car accident and they are very happy with the results as the bleeding was stopped very quickly..."
Audrius J



Consumer

- Prevents trips to Emergency Room

I purchased and used your product... I am on Coumadin since Jan 2009... I have been to the ER three times to stop bleeding since Jan. I have used Celox four times recently and it is amazing! I have given packs to several of my friends who are on Coumadin.

I have not been to the Emergency Room since I got your product. I need more info on how to clean the are (after using Celox to stop bleeding).

Keep up the good work and let me hear from you.

Consumer.



Veterinary

- Treats major bleeding
- “will save lives of the dogs”
- No re-bleed on cleaning.

“.....I used Celox last weekend on a hunting dog and was very pleased with the results. One of the dogs was hit in the shoulder by a big wild boar which caused some major bleeding. The dog would have weighed about 28 kilo's and lost about 500ml of blood by the time we got to it. I used the 2gram sachet and poured the lot into the wound, applied pressure to a pad placed over the top for about 5 minutes and the bleeding stopped. Transported the dog back to our vehicle where we were able to clean around the wound using saline solution, I was surprised after squirting the saline solution into the wound that it didn't start to bleed.

I intend telling other hunters here to get some of this product for their dog first aid kits. I have since noticed the syringe type applicator on your web site and I think this would be a great way to administer Celox into tusk punctures. I believe this product will save the lives of dogs”

Grant Boyle - Department Of Primary Industries,
Australia

- Packed bleeding abscess

“.....Thought you might like to know about a gorilla at the Bronx Zoo. I learned today that the Bronx Zoo had an older gorilla with tooth problems and an abscess on what appeared to be his head. While the animal was under sedation for dental surgery, the vet team removed teeth, but while they treated an abscess in the head of the gorilla--they also learned the problem was connected to the animal's tooth problem. They expressed the abscess and packed the resulting wound with CELOX and a gauze tamponade. When sedation wore off, the gorilla quickly removed the gauze tampon, but the CELOX was highly successful as a hemostatic and as a packing agent....”

Rita M.



Veterinary Cont.

- Tumour removal
- Hard to control bleeding due to location
- Made excision easier.

“...An 8 ½ lb tumour was removed from a male green sea turtle successfully in Honolulu, Hawaii. The surgery was a success with the use of Celox Granules. “I knew there would be a lot of bleeding from a previous removal of a five pound tumour on another turtle in the same area, tying off bleeders is difficult in this area because part of the bone is invaded. The granules worked a treat and the operation was made easier as a generous use of Celox Granules controlled the bleeding. Hawaiian sea turtles are a threatened species and are protected under federal law. After a day and a half out of the water the turtle was doing well with no re-bleed. The sea turtle was released post surgery into the ocean near Maui...”
Dr Robert Morris, DVM, MS marine biologist

- Multiple different uses:
- Castration bleed, debridement, sinus

A post-castration bleed - worked brilliantly.

Excision of exuberant granulation tissue and preparation of granulation bed for grafting - much better than using swabs and direct pressure alone.

A sinus surgery that bled profusely and required packing. Following removal of the packing the next day it bled again and we managed to inject the Celox granules via the applicator into the portal where the packing had exited. Worked brilliantly.

Greg Quinn

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