

Medtrade Products Limited talks about Celox, the lifesaving haemostat

Celox is a lifesaving haemostat with the tested and proven ability to effectively stop bleeding within minutes. It is suitable for all moderate to severe bleeding wounds. Celox is already saving the lives of soldiers in Afghanistan and Iraq. In the USA it is an addition to the trauma first aid kits of military, police, fire and ambulance medics.

Leading surgeon Russell Millner MD FRCS (CTh), Department of Cardiothoracic Surgery, Blackpool Victoria Hospital, advocates the use of Celox in the UK. According to Mr Millner, Celox has the ability to drastically reduce the number of fatalities resulting from traumatic injury. Celox can stop bleeding quickly enough to prevent shock, protect tissues and organs and avert potential death. Celox has the potential to become an integral part of emergency equipment to enable immediate on-scene treatment to traumatic injuries. It is already adopted by a number of air ambulances and police firearms units in the UK.

How does Celox work?

Celox is a very effective haemostat, made of a proprietary composition that contains chitosan. This is a highly purified natural polymer derived from shrimp shells in a composition protected by three international patent applications.

Celox bonds to the surface of red blood cells and platelets to produce a gel-like clot or plug. It works independently of the body's normal clotting mechanism and can clot hypothermic or even heparinised blood.

Unlike other haemostats, Celox does not cause burns to the skin or attending medical personnel. Once the wound has stabilised, Celox can be removed easily. It is made using a natural polysaccharide, chitosan, that can be broken down by the body's natural enzymes.

Celox has a class III CE Mark and is available across Europe. It is safe and easy to apply and can be used effectively by anybody with appropriate emergency training. Celox is available in 15g and 35g pouches, and as the new, patented Celox-A, with its applicator and plunger, which allows delivery of the haemostatic granules to deep or difficult to reach wounds, including small entry holes, deep tract and deep arterial wounds.

Celox even works on blood where clotting has been impaired by anti-coagulation medication such as coumadin, warfarin and heparin, and has no adverse effects.

Special Forces medic in the field

A medic, using the new unique Celox applicator for the first time, commented on the successful outcome:

"I inserted it about two inches into the wound and inserted all of its contents without any problems in about one second. The wound was a blast injury with some major distal bleeding. The laceration was about seven inches in length and full thickness to the bone with major cavitation."



Applicator in use



Celox Blue CE 15g

"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."



Celox and Mountain Rescue

This Easter Bank Holiday weekend, Edale Mountain Rescue Team was called to Stanage Edge where a 25 year old had suffered life-threatening injuries in a fall while abseiling on the popular climbing edge near Hathersage in the Peak District. The man had substantial, life-threatening bleeding after falling 8m (26ft) on the Saturday of the Easter weekend.

The injured climber made a full recovery following emergency surgery on his pelvis and wrist.

A team spokesman says that the treatment “undoubtedly helped to save the life of the climber in this case”.

Academic Emergency Medicine

The journals report¹ “An Alternative Hemostatic Dressing: Comparison of Celox, HemCon and QuikClot” published the results of testing by the US Marines. Celox produced improved haemorrhage control and was the only product to obtain 100% survival.

¹ Academic Emergency Medicine, January 2008, v15, issue 1, pp74-81

More details on Celox technology can be found on www.celoxmedical.com or by emailing web@medtradeproducts.co.uk



The rescue team used Celox to stem the blood flow from the climber’s wounds.

A spokesperson for the team said: “Having been stabilised on scene, the patient was evacuated to the top of the crag before being taken to the Northern General Hospital by the Nottinghamshire and Lincolnshire Air Ambulance.”



Controls life-threatening bleeding fast

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