



HemCon® Bandages

Gain time in the fight against
uncontrolled hemorrhage



CardinalHealth

Introducing the HemCon® Bandage

Now there's a weapon in the fight against uncontrolled hemorrhage

Uncontrolled hemorrhage is the second leading cause of death in the U.S. after trauma.¹ Now there's a way to keep patients stable until they can reach the operating room: the HemCon® Bandage.

The HemCon® Bandage controls external bleeding within minutes of being applied directly to moderate, high-pressure or high-flow external bleeds. It aggressively adheres to the site when it contacts blood or moisture. This adhesive-like action forms a strong, flexible barrier that seals and stabilizes the wound. Bleeding is controlled independently of the normal coagulation cascade.

By directly controlling blood loss, even in the case of severed arterial bleeds, HemCon® Bandages:

- Reduce the need for transfusions
- Provide critical time to administer care – up to 48 hours from the point of placement
- Reduce biohazard exposure for medical staff
- Provide a powerful new option in critical care situations

What Is Chitosan?

Chitosan (pronounced "Kite-o-san") is a complex carbohydrate derivation of chitin (poly β (1 \rightarrow 4)-N-acetyl-D-glucosamine). In its acid salt form, chitosan demonstrates mucoadhesive activity, an ideal property for hemostatic agents. Ionic interaction intrinsic to the chitosan dressing material attracts red blood cells and platelets, forming a clot.

When applied to traumatic skin, organ or penetrating injuries, the HemCon® chitosan dressing provides superior control of bleeding and wound site adhesion.

Finally, when tested against traditional alginate and silver sulfadiazine bandages, the results suggest that chitosan acetate is a superior antimicrobial substrate that provides a protective antimicrobial barrier.²

"Based on the limited data that are presently available, the following recommendations are made as to the judicious use of the currently available products. Because the HC (HemCon® chitosan) dressing is safe and does not have known adverse effects, this should be the first advanced hemostatic dressing used in situations in which severe external bleeding cannot be controlled by standard methods. This recommendation is based on the ability of this dressing to control bleeding in models up to those that include high-pressure/high-flow bleeding."

— Pusateri, A., Holcomb, J., Kheirabadi, B., Alam, H., Wade, C., Ryan, K. (2006). Making Sense of the Preclinical Literature on Advanced Hemostatic Products. *J Trauma*, 60, 674-682.

From the battlefield to you...

HemCon® Bandages were originally developed for use on the battlefield. They have been successfully used in battle since 2003. In that time, they have been attributed to saving more than 100 lives with no reported adverse events to date.



In June 2005, a study was initiated to evaluate the effectiveness of the bandages in civilian populations within a mixed urban-suburban fire agency. The study specified the dressing should be used when conventional treatment (pressure and gauze dressings) failed or for obvious arterial bleeding.

In cases where direct pressure and/or gauze dressing failed to control bleeding or where direct pressure could not be applied directly, the bandage stopped bleeding successfully in 88% of cases, usually within 3 minutes of application.³

Safety And Efficacy

- Immediate, reliable and easy to use
- Contains no human or animal clotting factors
- Non-exothermic (non-heat producing)
- No adverse events noted to date*
- Can be used to treat patients on anticoagulants
- Bandages can be left in place for up to 48 hours
- To remove (once definitive surgical care is in place), simply irrigate with saline – no need for wound debridement

Where HemCon® Bandages Are Typically Used

- ER: primary lacerations and rebleeds
- ICU/CICU: discontinuation of central lines, chest tubes or invasive lines
- Cath lab and radiology
- Rapid response carts

*Bandage contains chitosan from shellfish. Discontinue use if you suspect an allergic reaction.



Ordering Information

The HemCon® Bandage is currently available in a 2" x 2" format. The dressing can be cut to fit smaller wounds or used in tandem for larger wounds.

Bandages are provided sterile and have a 3-year shelf life. Latex-free.

Cat. No.	Description	Packaging
HEM225	2" x 2" HemCon® Bandage	5 bandages/bx, 20 boxes (100 bandages)/cs

The following are just some of the products that can be used with the HemCon® Bandage to provide a secondary dressing:

Cat. No.	Description	Packaging
CBF 535	Latex-free sterile self-adherent bandage, 3" width	24 rolls/cs
CBF 545	Latex-free sterile self-adherent bandage, 4" width	18 rolls/cs
GR0403-1	Sterile conforming stretch bandage, 3" width	12 bandages/pk, 8 packages (96 dressings)/cs
GR0404-1	Sterile conforming stretch bandage, 4" width	12 bandages/pk, 8 packages (96 bandages)/cs
TD-24	Transparent film dressing, 2 3/8" x 2 3/4"	100 dressings/bx, 4 boxes (400 dressings)/cs
TD-26	Transparent film dressing, 4" x 4 3/4"	50 dressings/bx, 4 boxes (200 dressings)/cs
PR0403-1	Sterile gauze bandage roll, 3" width	12 rolls/bg, 8 bags (96 rolls)/cs
PR0404-1	Sterile gauze bandage roll, 4" width	12 rolls/bg, 8 bags (96 rolls)/cs
FR3436-1	Fluff roll, 6-ply, 3.4" x 3.6 yd.	96 rolls/cs
FR4531-1	Fluff roll, 8-ply, 4.5" x 3.1 yd.	100 rolls/cs
FR4541-1	Fluff roll, 6-ply, 4.5" x 4.1 yd.	100 rolls/cs

Ask your Cardinal Health sales representative for more information about the HemCon® line of products or supporting secondary dressings. This item is also available for placement within Presource® procedure packs.

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1 Sauaia, A., Moore, F. A., Moore, E. E., et al. (1995). Epidemiology of trauma deaths: a reassessment. *J Trauma*, 38,185-193.

2 Burkatovskaya, M., Tegos, G., Swietlik, E., Demidova, T., Castano, A., Hamblin, M. (2006). Use of chitosan bandage to prevent fatal infections developing from highly contaminated wounds in mice. *Biomaterials*, 27, 4157-4164.

3 Belman, A., Daya, M., Stevens, M., Worley, J. (2006) From the Battlefield to the Street—Experience of a Suburban Fire/EMS Agency with Chitosan Dressing. *Touch Briefings: Emergency Medicine & Critical Care Review*.

Quality *plus* Value

All items are Best Value® products


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888.444.5440 (physician offices and surgery centers)

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