



Fast, Effective Control of Severe Bleeding

mrdh® Ordering Information

Item #	Quantity	Description
400-14	▪ 1 Box of 3	mrdh Bandage 10cm x 10cm (4in x 4in)
400-25	▪ 1 Box of 3	mrdh Bandage 5cm x 5cm (2in x 2in)

Order Fax: 877.270.8500
 Order Telephone: 888.666.2560

About Marine Polymer Technologies, Inc.

mrdh® is manufactured by Marine Polymer Technologies, Inc., an innovative medical device company focused on the development and delivery of biomaterials for the medical field. Since 1992, we have introduced a variety of ground-breaking products in the areas of hemostasis and wound healing to support healthcare providers and their patients. Our revolutionary products are based on the isolation, characterization and formulation of our novel and proprietary polysaccharide polymer (pGlcNAc). We are committed to the highest quality standards that meet both our customers' expectations and regulatory requirements.

Visit www.mrdhbandage.com or call 1.888.666.2560 to learn more about mrdh's effectiveness.



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¹ King D, Cohn S, Proctor K, et al. *J Trauma*. 2004 Oct; 57:756-759.
² Valeri C, Vournakis J. *J Trauma*. 2011;71:S162-S166.
³ Fischer TH, Thatté HS, Nichols TC, et al. *Biomaterials*. 2005;26:5433-5443
⁴ Scanning Electron Micrograph courtesy of Thomas H. Fischer, PhD. Dept. of Pathology and Laboratory Medicine. University of North Carolina, Chapel Hill, NC.
⁵ Salerno T, Gaughan C, Suarez M, et al. *J Card Surg*. 2009; 24:722-724

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Indications for Use

mrdh® is a trauma dressing intended for the temporary control of severely bleeding wounds such as surgical wounds (operative, postoperative, donor sites, dermatological, etc.) and traumatic injuries.

Safety Information

PRECAUTIONS: There are no known contraindications to the use of mrdh®.

CAUTION: Federal (USA) law restricts this device to sale by or on the order of a physician or other licensed practitioner.

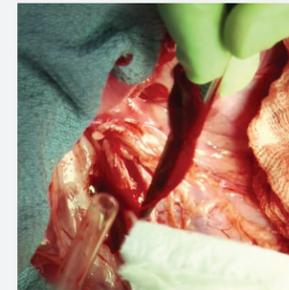


mr dh[®] Controls Severe Bleeding When Seconds Count

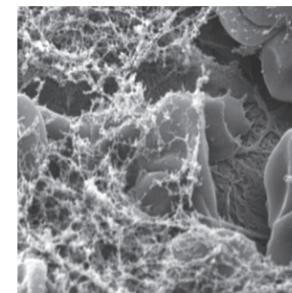
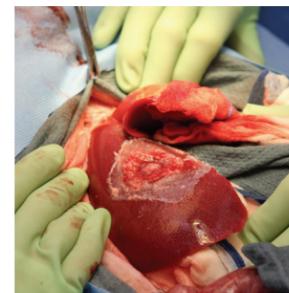
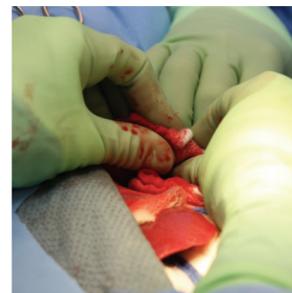
In emergency situations, **mr dh[®]** can control severe bleeding in minutes.¹ **mr dh** has proven to be efficacious for control of both venous and arterial hemorrhage, including patients suffering a coagulopathy.² In a prospective observational trial of clinically coagulopathic patients with severe visceral injuries, **mr dh** facilitated the cessation of bleeding in 90% within 5 minutes.¹

mr dh[®] Controls Hemorrhage During Surgery and Can Be Used for a Variety of Procedures Including

- Traumatic injuries
- Operative and postoperative surgical wounds
- Organ lacerations
- Transplants and donor sites
- Arterial and venous injuries
- Aortic and valve transection
- Tissue degradation
- Liver and spleen laceration
- Transplants
- Kidney transection
- Colon resection
- Oozing material
- Back side bleeds
- Aneurysms
- Axillary node dissection
- Appendage reconstruction
- Lung injury



mr dh accelerates clot formation



Fast and Easy to Apply in Critical Situations

mr dh[®] is used for the temporary control of severely bleeding wounds such as operative and postoperative surgical wounds, donor sites, dermatological procedures and traumatic injuries, including combat situations. It is easy to use and apply and offers these advantages:

- No prep time
- No pre-mixing of reagents
- No special storage conditions
- No exothermic reaction
- Clings to wet surfaces

mr dh is packaged in a convenient blister pack and can be stored at room temperature for up to 3 years.



Take Control of Troublesome Bleeding

Case Study: In an acute type A dissection, **mr dh** successfully controlled hemorrhage when suturing and other maneuvers failed.⁵

- Upon aortic declamping, troublesome bleeding occurred in the posterior suture line
- Prolonged hand pressure and clotting factors were used, including factor VII, which failed to control hemorrhage
- **mr dh** was applied to the area with hand pressure
- The patient's chest was left open for 48 hours
- **mr dh** was removed with total control of bleeding
- Patient recovered uneventfully

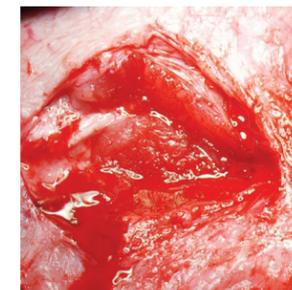
“ In our patient there is no doubt that **mr dh[®]** was effective in controlling bleeding, which had not responded to conventional measures. ”

— Journal of Cardiac Surgery
November 2009

Fast and Simple Steps for Use



1 Open blister pack onto sterile field



2 Place **mr dh** on open wound, with active side toward wound surface



3 If the dressing is completely soaked through, apply another dressing over the first and continue pressure



4 To remove, soak **mr dh** with sterile saline and gently peel away

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