MaxioCel™

Chitosan Wound Dressing

100% CHITOSAN WOUND DRESSING FOR ACUTE AND CHRONIC WOUND MANAGEMENT

Powered By

BMG TECHNOLOGY

www.maxiocelusa.com

USFDA 510(k)
K212766

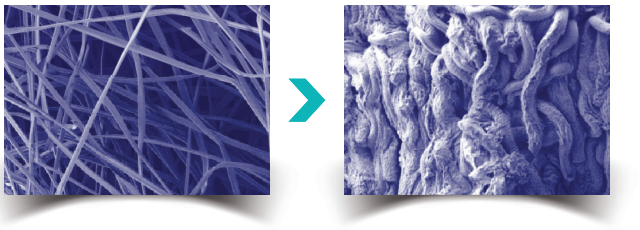
MaxioCel is a highly absorbent advanced wound dressing indicated for the management of moderately to heavily exuding chronic and acute wounds.

MaxioCel helps in maintaining an optimal wound healing environment, assists in autolytic debridement, and is easy to remove. MaxioCel can be kept on the wound site for up to 7 days based on clinicians' advice.

Bioactive Microfiber Gelling (BMG) technology

Our proprietary **BMG** technology transform the chitosan microfibers of MaxioCel into a cohesive and conformable gel which helps to manage the wound exudate, entrap bacteria and provides an optimal moist environment for faster wound healing.

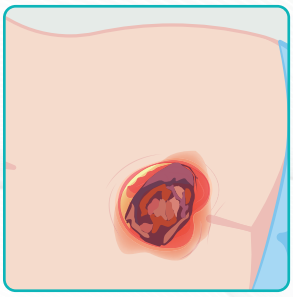
MaxioCel Gelling Fibers



Before absorption of wound exudate

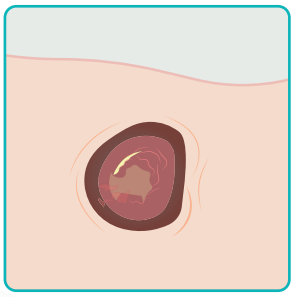
After absorption of wound exudate

Indications

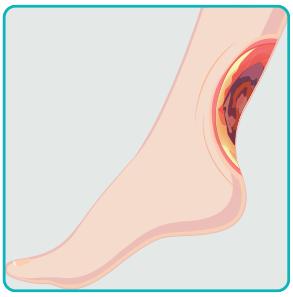


Pressure ulcers

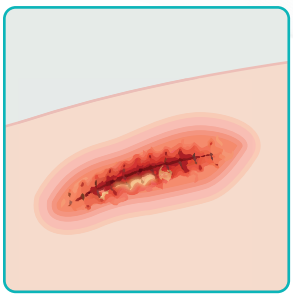
Diabetic ulcers



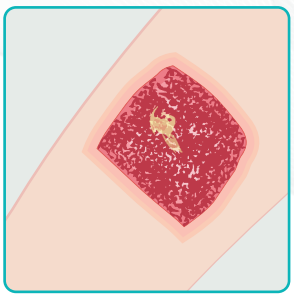
Skin abrasions



Leg ulcers

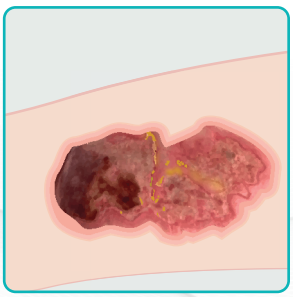


Surgical wounds



Donor sites and graft sites

Lacerations



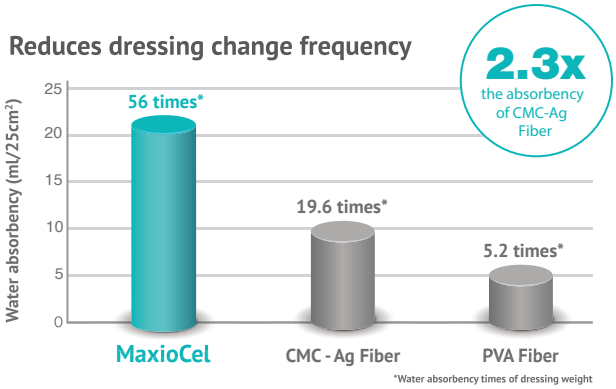
1st and 2nd degree burns

MaxioCel's Features for Wound Management

Exudate Management[1,4,5]

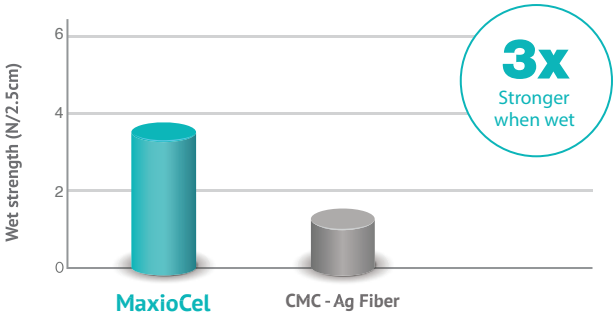
High absorbency capacity retains wound exudate within the gelling fibers, and prevents periwound maceration.

Reduces dressing change frequency



Strength when wet[2,4,6]

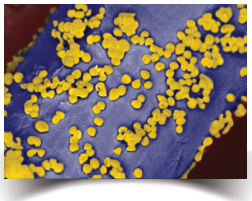
The gelling matrix of MaxioCel dressing maintains its integrity in wet conditions, resulting in simpler, faster, and more comfortable dressing removal.



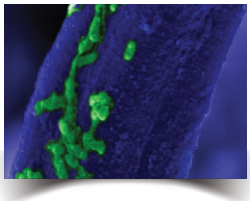
Microbial protection[4]

Provides a barrier against bacterial penetration. MaxioCel's positively charged chitosan fibers attract and trap microorganisms within the dressing.

Bacterial adhesion and sequestration



Adherence of *Staphylococcus aureus* on MaxioCel Microfibers

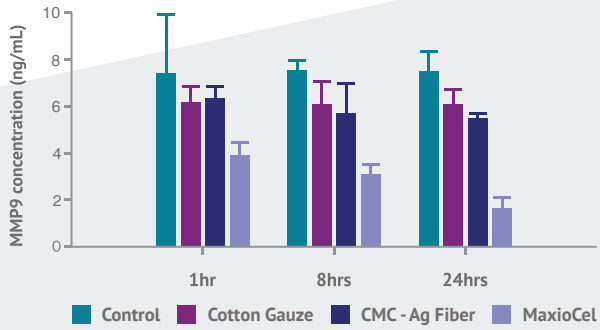


Adherence of *Pseudomonas aeruginosa* the MaxioCel Microfibers

Activates wound healing & Hemostasis[2,4,6,7]

MaxioCel helps to accelerate granulation and re-epithelialization through fibroblast proliferation and sequestration of excess matrix metalloproteinases (MMPs).

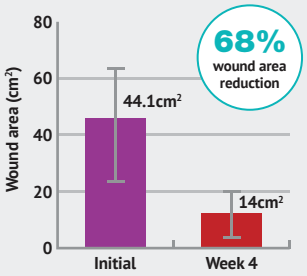
MaxioCel's positively charged fibers attract blood cells to activate hemostasis at the wound site. MaxioCel can be used to control minor bleeding.

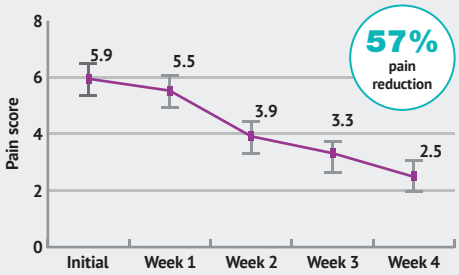


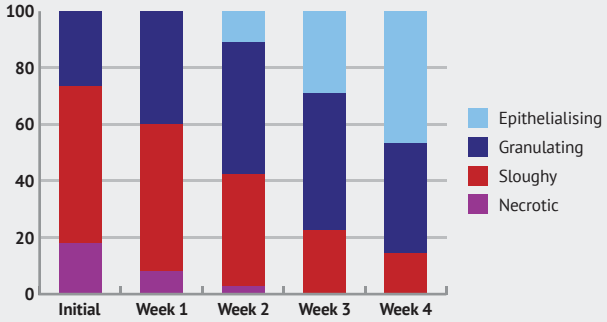
Clinical Evidence:

Evaluation of MaxioCel dressing in the management of hard-to-heal wounds[6] (Conducted in the UK).

In 4 week evaluation, patients (N=11) using MaxioCel dressing reported a significant wound area reduction and pain reduction along with improvements in granulation and re-epithelization.

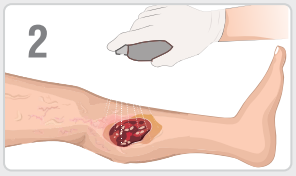






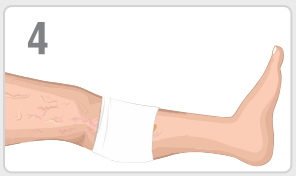
How to use:

Always use aseptic techniques when dressing the wound



Irrigate and clean the wound site

Peel open MaxioCel pouch and cut, fold or layer the dressing to fit the wound*



Cover and secure with an appropriate secondary dressing

For easy removal irrigate MaxioCel with saline or water and gently peel off

Remove slowly and discard the dressing

* **Dressing Selection:** For flat or shallow wounds select an appropriate size dressing that allows for a minimum of 0.5 cm overlap onto the skin surrounding the wound (to allow the dressing to gel and to maximize conformability). Use a longer dressing for cavity wounds (e.g. 1in x 12in size depending on the wound dimensions).

Ordering Information:

Product Code	Product Size	Packaging
MX0505	2in x2in (5cm x 5cm)	Box of 10
MX0510	2in x 4in (5cm x 10cm)	Box of 10
MX1010	4in x 4in (10cm x 10cm)	Box of 10
MX2530	1in x 12in (2.5cm x 30cm)	Box of 10
MX1515	6in x 6in (15cm x 15cm)	Box of 10
MX2030	8in x 12in (20cm x 30cm)	Box of 5
MX4545	18in x 18in (45cm x 45cm)	Box of 3

Reference:

1. Nair, K.R., Suhanthi, R. and Balakrishnan, R.A.R., Evaluation of a bioactive microfibre gelling dressing in the management of chronic wounds: a case series. Wounds APAC 2023, 6(3).

2. Nair, H.K., 2022. Evaluation of a novel chitosan wound healing dressing based on bioactive microfibre gelling (bmg) technology: a case series. Wounds Asia, 5(3), pp.52-58.

3. Gupta, A.K. and Vyas, A., 2023. Use of chitosan wound dressing for the treatment of surgical site infection: a case report. Journal of Wound Care, 32(Sup3), pp.S4-S8.

4. A HN, Kumar A, Agrawal A, Mavely L, Bhatia D. Characterization of a Bioactive Chitosan Dressing: A Comprehensive Solution for Different Wound Healing Phases. ACS Appl Bio Mater. 2025 Mar 17;8(3):1921-1933. doi: 10.1021/acsabm.4c01161. Epub 2025 Feb 27. PMID: 40014862.

5. Rice, S. and Pramod, S., 2023. Management of malignant fungating wounds with a bioactive microfibre gelling technology dressing: an evaluation. Wounds UK, Vol:19, Issue: 04.

6. Tickle, J., 2023. Evaluation of a chitosan dressing in the management of hard-to-heal wounds. British Journal of Nursing, 32(4), pp.S44-S50.

7. Kulkarni, M., Deshpande, S. and Lokapure, S., 2022. Use of chitosan-based dressings for the management of a chronic lower limb ulcer: a case report. Wounds: a Compendium of Clinical Research and Practice, 34(2), pp.E13-E16.

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