Step up the healing process

BIOSTEP Matrix is a unique collagen dressing that allows you to overcome barriers to wound closure while maintaining an optimal moist wound environment.
Your next step toward wound closure

**BIOSTEP™**

The next generation collagen dressing that removes barriers to healing and facilitates wound closure

### Unique dual action
- Targets and deactivates excess MMPs, the enzymes that degrade proteins, to optimize wound closure

### Longer lasting
- Six-day wear time for prolonged control of the wound environment
- Nearly double the wear time of other collagen dressings

### Moisture management
- Maintains optimal moisture balance for wound closure

### Easy to use
- Highly conformable dressing is easy to apply

### Patient friendly
- Gelling action provides a cooling, soothing effect for enhanced patient comfort

### Antibacterial activities of silver
- **BIOSTEP™ Ag** Minimizes infection recurrences when infection risk factors are present

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*MMPs = matrix metalloproteases.
*Only BIOSTEP Ag contains silver.
Chronic wounds: a major problem with hidden costs

Three to five million people in the US suffer with chronic wounds every year. On average, the cost to close a chronic wound is around $40K per patient.

BIOSTEP+: an effective solution with targeted results

When
The wound is not closing at a fast enough rate or it is not progressing.

Why
Maintaining a balance between extracellular matrix proteins like collagen and the enzymes that break them down (MMPs) is essential for wound healing.

When present in excess, MMPs break down collagen and new tissue at a faster rate than they are being produced.

How
The collagen in BIOSTEP attracts and binds MMPs while EDTA within the dressing deactivates them.

Result
A collagen dressing that provides sustained, targeted control of MMPs so that tissue regeneration can occur effectively.
Take two steps forward in wound healing

Unique dual-action MMP targeting

**Step One**
Collagen attracts the MMPs away from the wound so that they break down the dressing and not the collagen within healing tissue.

**Step Two**
MMPs contain zinc ions that are necessary for their activity. EDTA binds the zinc ions to deactivate MMPs.

EDTA in BIOSTEP boosts MMP deactivation, allowing new tissue formation and wound closure.
**BIOSTEP** keeps MMP activity in check for up to six days¹

![MMP Activity at six days](chart)

Please note: The lower the number, the lower the MMP activity.

**BIOSTEP is more absorbent than other collagen dressings³**

<table>
<thead>
<tr>
<th>Product</th>
<th>Total Absorption Capacity (g/100 cm²)</th>
<th>Absorbency Under Compression (g/100 cm²)</th>
<th>BIOSTEP works well with a secondary dressing for optimal moisture management.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOSTEP</td>
<td>20</td>
<td>13</td>
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<tr>
<td>Promogran® Prisma</td>
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<td>8</td>
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</tr>
<tr>
<td>Promogran</td>
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</table>

**BIOSTEP Ag minimizes infection recurrence when infection risk factors are present**

BIOSTEP Ag combines anti-MMP activity with the antibacterial activity of silver to maintain bacterial balance.

*Samples are incubated with a relevant quantity of MMP (1, 2 or 9) and subsequent activity of MMP remaining is assessed. The result is quoted as RFU (relative fluorescent unit), compared with a control count at the start of the test.
A step above the competition

No other collagen-based dressing offers the advantages of BIOSTEP™

A comparison of collagen dressings

<table>
<thead>
<tr>
<th>Feature</th>
<th>BIOSTEP</th>
<th>Puracol</th>
<th>Promogran</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sacrificial substrate for MMPs</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Sustained MMP deactivation (6 days)¹</td>
<td>✓</td>
<td>✗</td>
<td>✗</td>
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<tr>
<td>Dual-action MMP targeting (collagen + EDTA)¹</td>
<td>✓</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Increased resiliency and strength²,²⁶</td>
<td>✓</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Enhanced patient comfort</td>
<td>✓</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Optimal moisture management³</td>
<td>✓</td>
<td>✗</td>
<td>✗</td>
</tr>
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</table>

Which wound types can benefit from BIOSTEP?

BIOSTEP products are ideal for restarting the healing process in chronic, difficult-to-heal wounds, including:

Other wound types include:
- Pressure ulcers
- Donor and graft sites
- Traumatic wounds
- Dehisced surgical wounds

Diabetic foot ulcers
Venous leg ulcers
Smith & Nephew products offer solutions for every step of Wound Bed Preparation

An essential step in TIME (the “E” in TIME), BIOSTEP stimulates tissue regeneration to promote wound closure.

Speak to your Smith & Nephew representative today to arrange samples for evaluation.
Ordering information

**NEW BIOSTEP® Collagen Matrix Dressing**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Pcs/Pkg</th>
<th>Pkgs/Unit</th>
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**NEW BIOSTEP® Ag Collagen Matrix Dressing**

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Complementary Smith & Nephew products

- ACTICOAT®
- IODOFLEX®
- OPSITE®
- ALLEVYN®
- PROFORE®
- IODOSORB®
- PROGUIDE®

Negative Pressure Wound Therapy (NPWT)

**References**