

JumpStart

ADVANCED MICROCURRENT TECHNOLOGY



Inspired by the body.
Powered by electricity.
Energized by results.®





INTRODUCING

JumpStart[®]

Antimicrobial Wound Dressing

Used in multiple clinical applications, JumpStart wound dressing provides sustained broad-spectrum antimicrobial efficacy¹ and an optimal environment for wound healing.



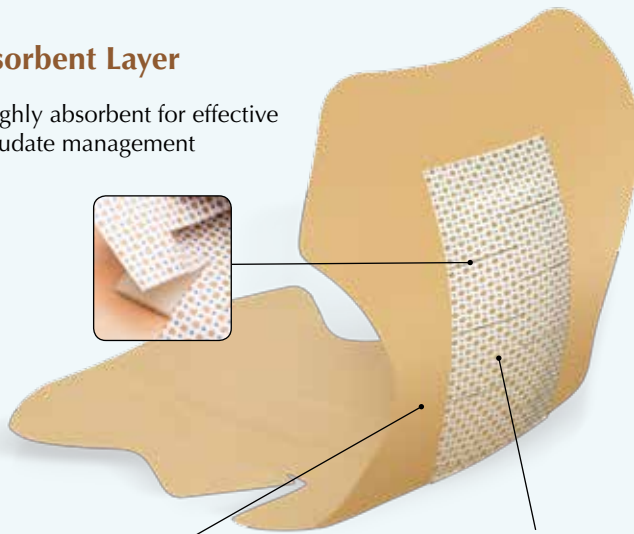
JumpStart Technology

JumpStart dressings are provided on an ultra-thin, lightweight, polyester substrate and contain laser-cut fenestrations to allow easy passage of wound exudate into the absorbent layer or a secondary dressing. The flexible design easily contours to the body. JumpStart dressings may be applied directly over sutures, staples, Steri-Strips™ and liquid skin adhesives. The dot matrix pattern of embedded microcell batteries generate microcurrents on the dressing surface in the presence of a conductive medium, such as sterile saline, water-based gel or wound exudate.

JumpStart Composite Dressing

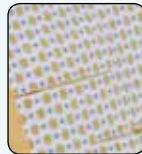
Absorbent Layer

- Highly absorbent for effective exudate management



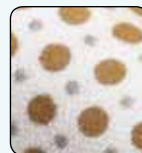
Adhesive Layer

- High-performance and water-resistant for multi-day wear
- Ergonomic shape conforms easily to body contours for adherence and patient comfort



JumpStart Contact-Layer Dressing

- Ergonomic shape conforms easily to body contours for patient comfort
- Multiple sizes available to fit surgical sites
- Can be cut to fit



Dot matrix of elemental zinc and silver microcell batteries

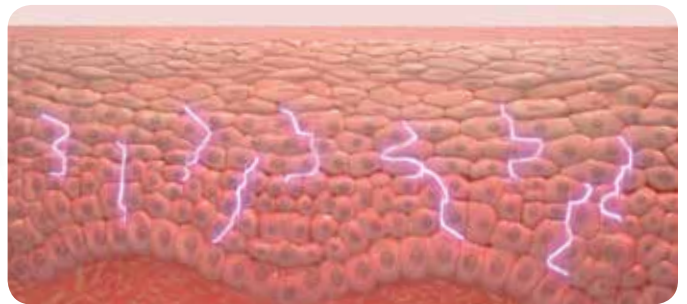
*Steri-Strip is a trademark of 3M.

JumpStart Contact-Layer Dressing	JumpStart Composite Dressing 2.5 and 4 inches in diameter	JumpStart Composite Dressing 4 x 4 inches	JumpStart Composite Dressing 5 x 6 inches	JumpStart Composite Dressing 4.5 x 10 inches	JumpStart Composite Dressing 6 x 11.5 inches

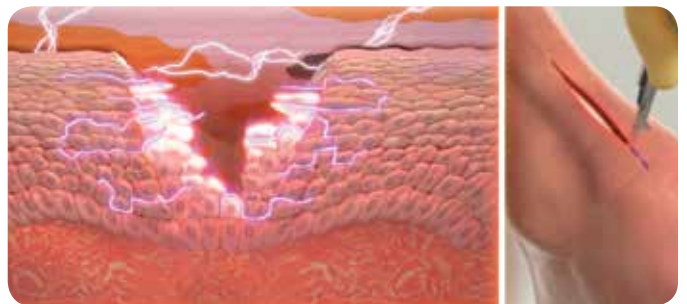
Inspired by the body.

Electricity is Essential to Healing

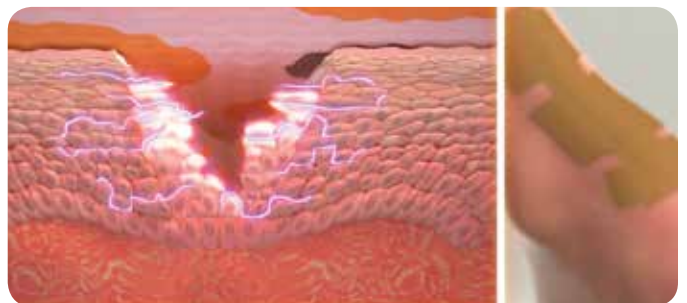
The body naturally creates and uses electrical energy to promote healing.²



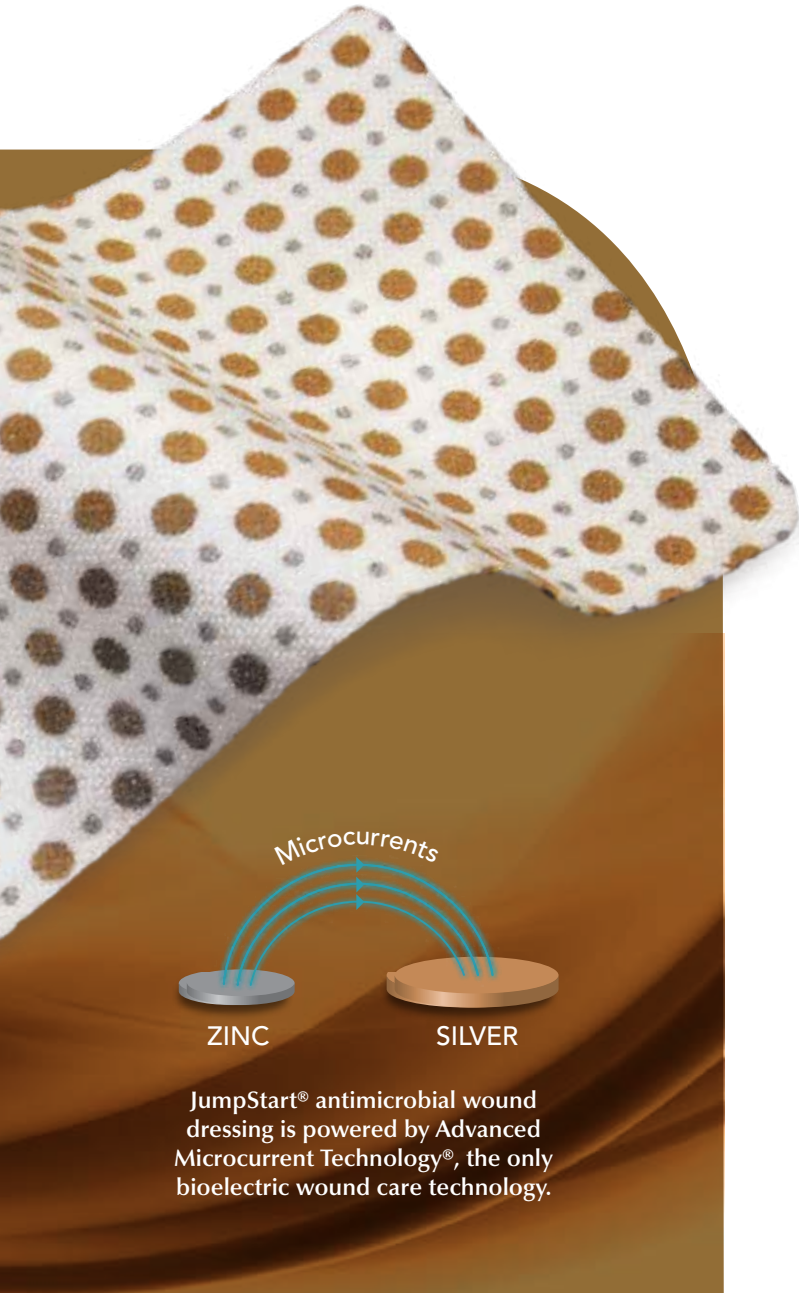
An electric potential exists across intact skin.^{3,5}



When skin is wounded, a change in electric potential occurs. This stimulus is the earliest guidance signal to initiate cell migration and re-epithelialization, and is essential to wound healing.⁶



Designed to mimic the skins' natural physiologic electric currents, JumpStart dressing's embedded microcell batteries generate microcurrents in the presence of a conductive medium⁷ to support the body's natural electrical healing process.



JumpStart[®] antimicrobial wound dressing is powered by Advanced Microcurrent Technology[®], the only bioelectric wound care technology.

Versatile Application

JumpStart dressing is indicated for a broad variety of partial and full-thickness wounds, for example:

- Surgical incisions
- Donor and/or recipient graft sites
- First- and second-degree burns
- Diabetic, pressure and venous insufficiency ulcers

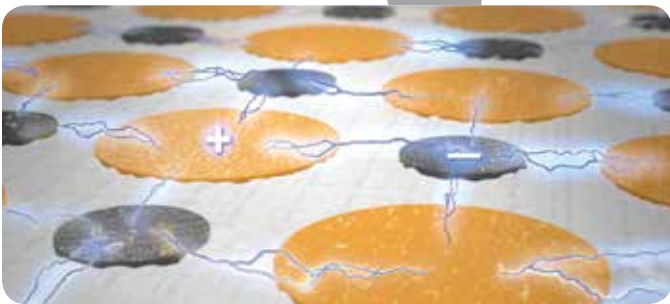
Powered by electricity.

Supporting the Body's Natural Healing Process

JumpStart® antimicrobial wound dressings are an entirely new generation of incision and wound care solutions.

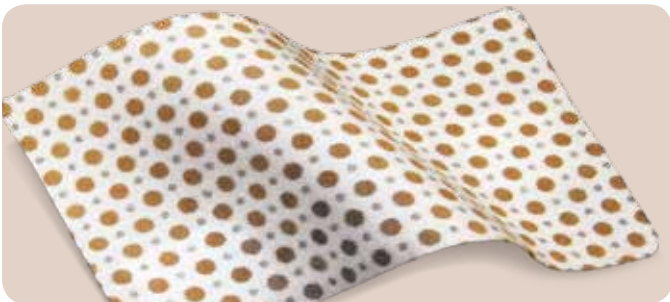
Advanced Microcurrent Technology

- Generates physiologic levels of microcurrent (2-10 μ A) that are known to be necessary for healing²
- Flexible and portable with no need for external power source



Comfortable & Conformable

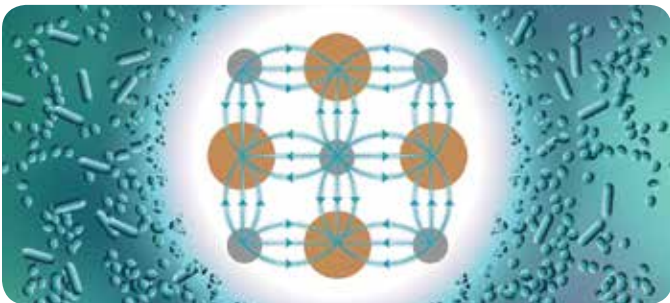
- Conforms to wound for maximum mobility and comfort
- Easily cut to fit
- Available in a variety of configurations, including JumpStart composite dressing and JumpStart non-adhesive contact-layer dressings



Broad Spectrum Antimicrobial Efficacy

JumpStart dressing's antimicrobial protection creates an optimal environment for wound healing.^{1,8,9}

- Provides effective and sustained antimicrobial efficacy¹⁰
- Kills a broad spectrum of harmful pathogens^{1,10}
- No silver release into the bloodstream⁷



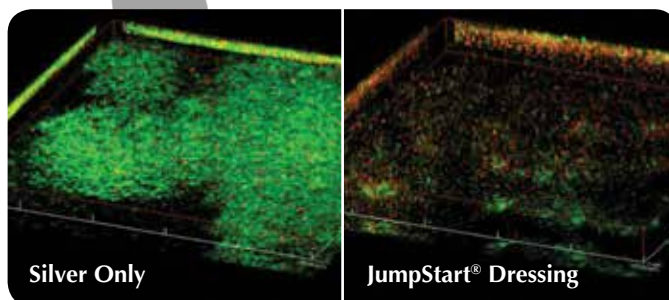
Energized by results.

Optimizing Outcomes

Reduce Risk of Infection

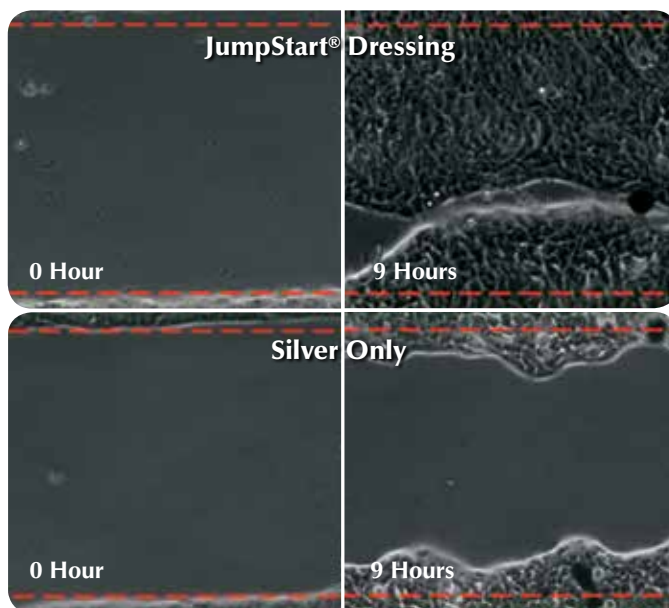
- Effective, sustained broad-spectrum antimicrobial efficacy for up to 7 days¹⁰
- Prevents bacterial growth⁹
- Electricidal antimicrobial efficacy vs. silver alone⁹

Live/dead fluorescence staining demonstrates bacterial killing of P. aeruginosa within JumpStart® antimicrobial wound dressing compared to a standard silver-based dressing at 24 hours. Red = dead Green = alive



Provide an Optimal Environment for Wound Healing

- Keratinocyte migration of JumpStart dressing vs silver observed at 9 hours, in vitro.¹¹



Supports Healing

- JumpStart dressing epithelialization vs standard dressings¹²⁻¹⁴

Prospective case series; skin graft harvest sites (N = 13)



Electricidal Antimicrobial Efficacy

JumpStart® antimicrobial wound dressing kills a broad spectrum of harmful pathogens, including multi-drug resistant¹ and biofilm-forming bacteria⁸⁻⁹ to help reduce the risk of infection.

Pathogens	Antimicrobial Efficacy
Acinetobacter baumannii	✓
Acinetobacter calcoaceticus	✓
Aspergillus niger	✓
Candida albicans	✓
Corynebacterium amycolatum	✓
Corynebacterium xerosis	✓
Enterobacter aerogenes	✓
Enterobacter cloacae	✓
Enterococcus faecalis	✓
Escherichia coli	✓
Klebsiella pneumoniae	✓
Propionibacterium acnes	✓
Pseudomonas aeruginosa	✓
Serratia marcescens	✓
Staphylococcus aureus	✓
Staphylococcus epidermidis	✓
Staphylococcus simulans	✓
Streptococcus pneumoniae	✓
Trichophyton rubrum	✓

Biofilm Producing Bacteria	Anti-Biofilm Efficacy
Acinetobacter baumannii	✓
Corynebacterium amycolatum	✓
Enterobacter aerogenes	✓
Enterococcus faecalis	✓
Escherichia coli	✓
Klebsiella pneumoniae	✓
Pseudomonas aeruginosa	✓
Staphylococcus aureus	✓
Staphylococcus epidermidis	✓
Serratia marcescens	✓

Antibiotic Resistant Bacteria	Bactericidal Efficacy
Klebsiella pneumoniae (ESBL)	✓
Pseudomonas aeruginosa (MDR)	✓
Staphylococcus aureus (MRSA)	✓
Vancomycin-resistant Enterococcus raffinosus (VRE 510)	✓
Vancomycin intermediate Staphylococcus aureus (NRS1, NRS12, NRS73, NRS116)	✓
Vancomycin-resistant Staphylococcus aureus (VRS1, VRS9, VRS11b)	✓

The tables show the efficacy of JumpStart dressing against various bacterial and microbial species *in-vitro*, using AATCC Test Method 100-1993.¹⁰

Some of the strains used for efficacy testing were clinical wound pathogens. In some of the studies, more than one strain for each organism was tested. Anti-biofilm efficacy testing was conducted using Poloxamer Hydrogel and/or Colony-Drip Flow Reactor (CDFR) Biofilm Models.

Learn more about JumpStart dressings with Advanced Microcurrent Technology® at www.Arthrex.com or contact your Arthrex Technology Consultant

References:

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Product and Ordering Information

JumpStart® Contact-Layer Dressing

Dressing Size (in)	Qty/Box	Product #
1 x 1 Fenestrated	10	ABS-4001
1.5 x 8	10	ABS-4005
1.5 x 10	10	ABS-4006
2 x 2	10	ABS-4002
2 x 5	10	ABS-4025
3 x 3	10	ABS-4003
4 x 4	10	ABS-4004
8 x 8	1	ABS-4008
12 x 12	1	ABS-4012

JumpStart Composite Dressing

Adhesive Size (in)	Dressing Size (in)	Qty/Box	Product #
2.5 Diameter	1.0 Diameter	10	ABS-4054
4.0 Diameter	2.0 Diameter	10	ABS-4056
4 x 4	2 x 2	5	ABS-4053
5 x 6	1.5 x 5	5	ABS-4051
4.5 x 10	1.5 x 7	5	ABS-4052
6 x 11.5	2 x 9	5	ABS-4050

To order, please call: 1-800-934-4404
Contact your local Arthrex Technology Consultant for additional information.

