ANTIMICROBIAL WOUND DRESSING

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

JumpStart
ANTIMICROBIAL WOUND DRESSING

Arthrex Vet Systems
Used in multiple applications, JumpStart provides sustained broad-spectrum antimicrobial efficacy and an optimal environment for wound healing.
Inspired by the body.

Electricity Is Essential to Healing

The body naturally creates and uses electrical energy to promote healing.¹

An electric potential exists across intact skin.²⁻⁴

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.⁵

Designed to mimic the body’s natural physiologic electric currents, JumpStart’s embedded microcell batteries generate microcurrents in the presence of a conductive medium⁶ to harness the power of electricity and support the body’s natural electrical healing process.⁷

Versatile Application

JumpStart is used for a broad variety of superficial and full-thickness wounds:

- Surgical incisions
- Donor and/or recipient graft sites
- First- and second-degree burns
- Non-healing wounds
- Traumatic wounds
- Cuts and abrasions
- Punctures and lacerations
- Irritations and abscesses
- Proud flesh

JumpStart antimicrobial dressing is powered by patented V.Dox™ technology – employs moisture-activated microcell batteries that wirelessly generate microcurrents.
JumpStart™ Dressings

Product Features

Advancing the Science of Animal Wound Care

JumpStart antimicrobial wound dressings use electricity to provide broad-spectrum antimicrobial protection for incisions and wounds in both small and large animals.

- Conforms easily to body contours for patient comfort
- Multiple sizes available to fit surgical and wound sites
- Can be cut to fit under secondary dressings
- Designed for multiday use for long-lasting protection

Proprietary islands of elemental silver and zinc form microcell batteries that generate electricity in the presence of moisture.
Augmenting the Body’s Natural Healing Process

JumpStart™ Wound Dressings are an entirely new generation of incision and wound care solutions.

Advanced Microcurrent Technology

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

Comfortable and 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 single-layer dressings

Broad-Spectrum Antimicrobial Efficacy

JumpStart’s antimicrobial protection creates an optimal environment for wound healing.

- Provides effective and sustained antimicrobial efficacy
- Kills antibiotic-resistant and biofilm-forming pathogens
- No silver release into the bloodstream
Optimizing Outcomes

Studies have shown JumpStart™ reduces the risk of infection\textsuperscript{9,10} and promotes the healing process\textsuperscript{7} to optimize outcomes.

Reduce Risk of Infection

- Effective, sustained broad-spectrum antimicrobial efficacy for up to 7 days\textsuperscript{11}
- Prevents bacterial growth\textsuperscript{10}
- Electricidal antimicrobial efficacy vs silver alone\textsuperscript{10}

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

Optimal Environment for Wound Healing

- Keratinocyte migration vs silver observed at 9 hours, in vitro scratch assay\textsuperscript{7}

Promote Healing\textsuperscript{12-15}

- Improved scar appearance vs standard dressings\textsuperscript{9,15}
- 45% shortened wound healing time in a clinical study\textsuperscript{14}
- Cleared by the US FDA for partial- and full-thickness wounds in humans

Initial wound

One month later
JumpStart™ kills a broad spectrum of harmful pathogens, including multidrug-resistant and biofilm-forming bacteria to help reduce the risk of infection.

The tables show the efficacy of JumpStart dressings against various bacterial and microbial species in vitro, using AATCC Test Method 100-1993.

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.
Improved Clinical Outcomes
Moisten the JumpStart™ dressing with a sterile agent such as saline solution, water, or water-based wound gel (hydrogel).

To ensure even pressure distribution, apply cotton batting to the wounded area and surrounding tissue.

Cover JumpStart with two layers of moistened sterile gauze to maintain appropriate moisture levels. Secure in place with elastic adhesive tape.

Cleanse the wound area with an appropriate water-based wound cleanser.

If needed, cut to a shape that will extend 1 to 2 inches beyond the wound edge.

Apply JumpStart dressing to the wound site, with the dotted side against and directly contacting the wound surface.
Apply cotton elastic adhesive tape to the dressing edges to secure in place.

Apply a self-adherent bandage to secure the dressing in place and to extend its longevity.

Brown gauze may be used to secure the cotton batting layer.

For full application instructions and safety information, please refer to JumpStart™ Wound Care with patented V.Dox™ technology Instructions for Veterinary Use.

References
## JumpStart™ Contact Layer Dressing

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