

JumpStart[®] Pin Site Dressing Kit for External Fixation

Surgical Technique



JumpStart® Pin Site Dressing Kit for External Fixation

Embedded in the dressing is a dot matrix of elemental silver and zinc microbatteries that preserve the naturally produced electrical currents of the skin, which are essential for healing. In the presence of a conductive fluid such as wound exudate, water-based wound hydrogels, saline, or water, the JumpStart dressing's microcurrents minimize and prevent the growth of a broad spectrum of bacteria.¹⁻³

The JumpStart pin site dressing kit is intended for wound management and is indicated for partial-thickness wounds (those involving the epidermis and dermis) and full-thickness wounds (those involving the dermis, subcutaneous fat, and sometimes bone), including external fixation pin sites and surgical incisions. The JumpStart pin site kit allows surgeons to focus on the procedure at hand rather than the risk of infection, Helping Surgeons Treat Their Patients Better®.

- › Pin-tract infection (PTI) is the most common complication in external fixation procedures.⁴
- › These infections create a significant burden for the patient and healthcare system, including an increased number of clinic visits, the possible need for additional surgery, and compromised patient outcomes.⁵
- › *Staphylococcus epidermidis*, *Staphylococcus aureus*, and *Escherichia coli* are the three most common infective agents of external fixation constructs. JumpStart dressing's antimicrobial properties have demonstrated activity against all three.⁴

Product Overview

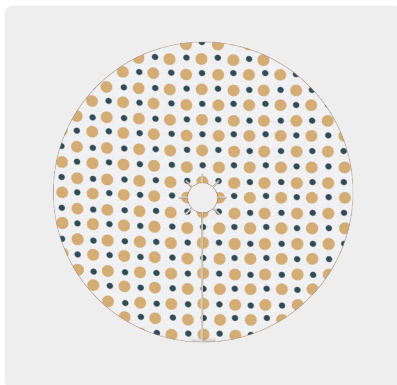
The JumpStart pin site kit includes three products: JumpStart dressing, one absorbent gauze, and one holding clip. JumpStart dressing is 2 inches in diameter and can be easily placed over external fixation device pins to protect against a broad spectrum of bacteria and promote a more natural healing process. The absorbent disk and holding clip help maintain a moist wound environment, which is optimal for healing when using JumpStart dressing.

Key Features and Benefits

- › Sized to fit around external fixation devices
- › Effective against multidrug-resistant bacteria; disrupts biofilm matrix¹⁻³
- › Promotes healing⁶
- › Easy and simple to use
- › Single use
- › Can be left on for up to 7 days*

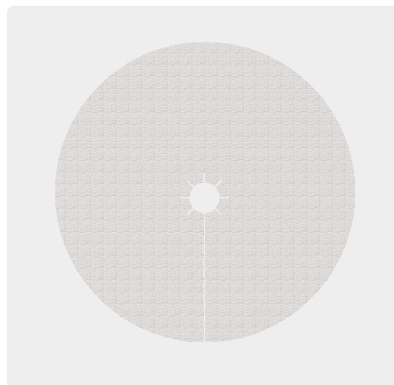
*Absorbent pad can be changed if exudate levels are high.

Kit components include:



JumpStart Antimicrobial Wound Dressing

Broad-spectrum antimicrobial wound contact layer



Absorbent Disk

Polyester-based absorbent layer

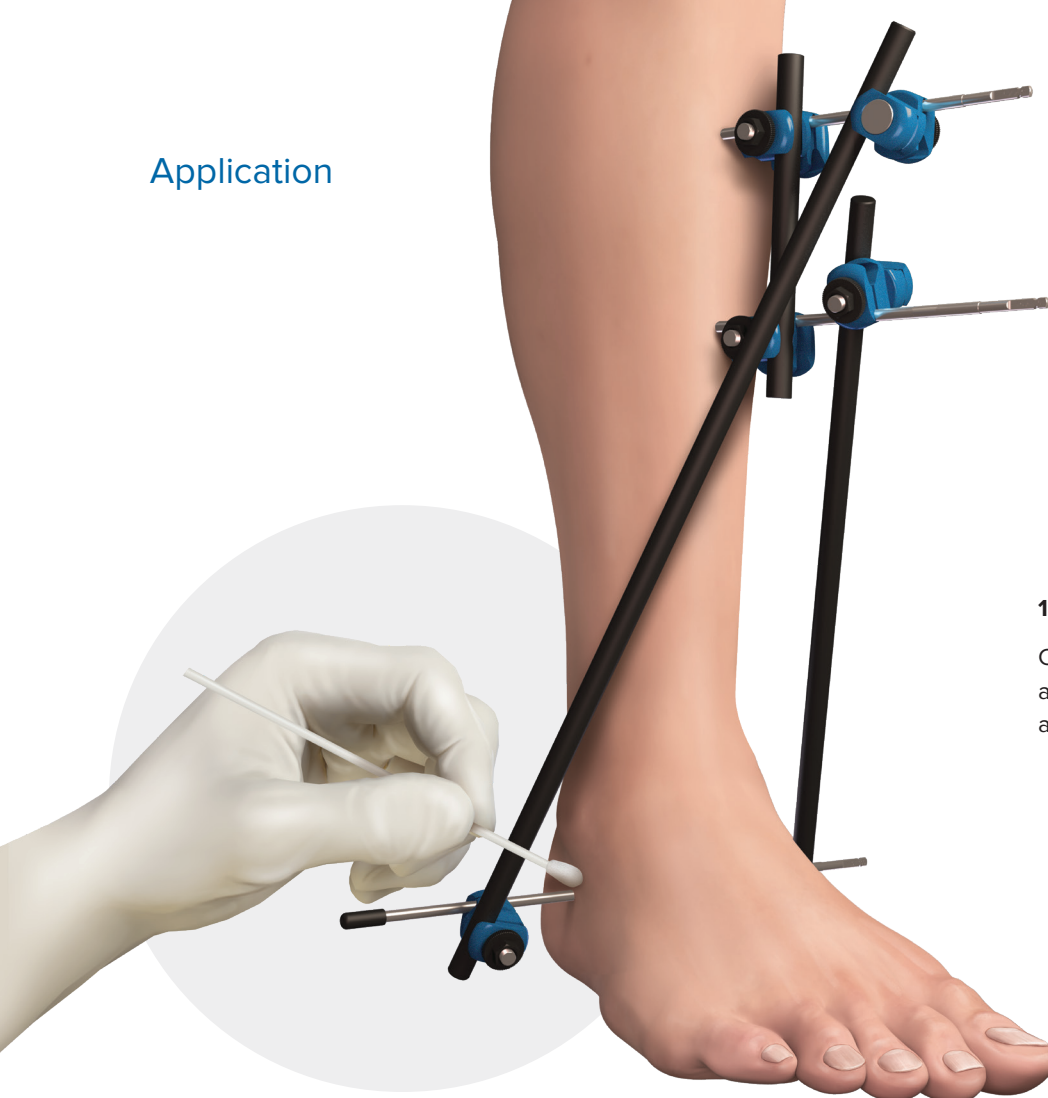


Holding Clip

(Compatible with 4, 5, and 6 mm pins)
Keeps the dressings in place and helps maintain a moist wound environment

| **Note:** Product is not made with natural rubber latex.

Application



1

Cleanse the pin site area with an appropriate wound cleanser according to local clinical protocol.



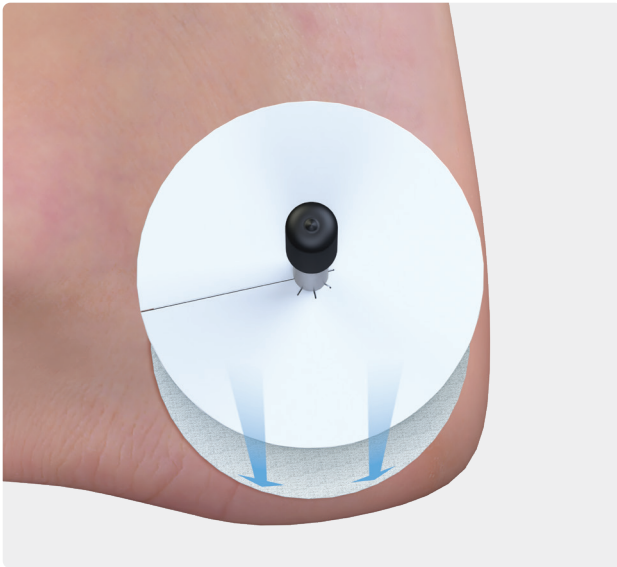
2

Moisten the dotted JumpStart® dressing with sterile saline, water, or a thin, even layer of Energel® wound hydrogel (not included in kit).



3

Position the JumpStart dressing, dots down, around the pin site, and gently press down to ensure direct skin contact.



4

Position the absorbent disk on top of the JumpStart® dressing that was placed around pin site. Ensure the slit of absorbent pad is placed opposite the slit on the JumpStart dressing.



5

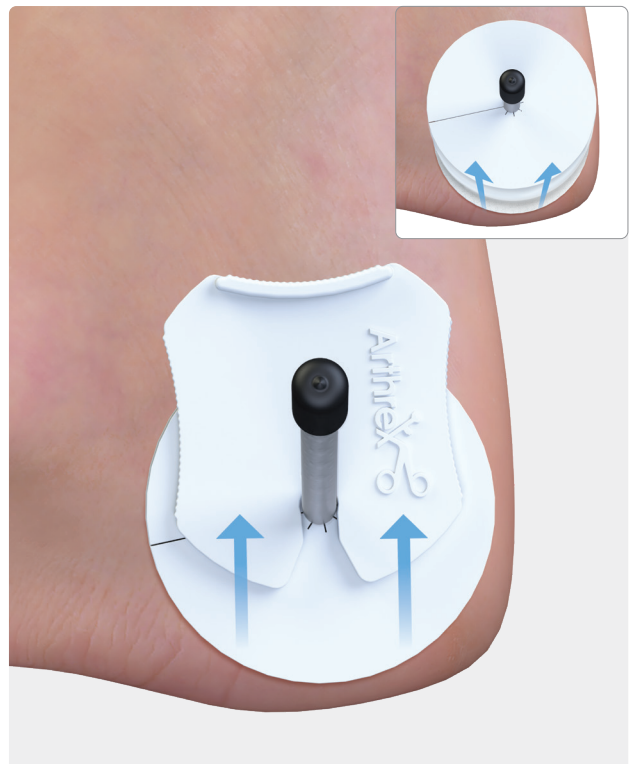
Slide the holding clip onto the pin. Push clip down to apply gentle compression and secure the dressings in place.

Postoperative Care

Site Care and Dressing Change

The dressing may be left in place for up to 7 days. Earlier and/or more frequent changes may be required, depending on the amount of exudate present and the condition of the wound and/or the surrounding skin. Inspect the wound site periodically.

To remove dressing, gently slide the clip up or pull it off the pin, then remove the dressing. If dressing adheres to the wound surface, do not force it off; moisten or soak the dressing with sterile saline or water until it can be removed without tissue disruption.



Ordering Information

JumpStart® Pin Site Dressing Kit	ABS-4059
➤ JumpStart antimicrobial wound dressing, qty. 5 ➤ Absorbent disk, qty. 5 ➤ Holding clip, qty. 5 (compatible with 4, 5, 6 mm pins)	

Products advertised in this brochure/surgical technique guide may not be available in all countries. For information on availability, please contact Arthrex Customer Service or your local Arthrex representative.

References

1. Kim H, Makin I, Skiba J, et al. Antibacterial efficacy testing of a bioelectric wound dressing against clinical wound pathogens. *Open Microbiol J*. 214; 8:15-21. doi:10.2174/1874285801408010015
2. Banerjee J, Das Ghatak P, Roy S, et al. Silver-zinc redox-coupled electroceutical wound dressing disrupts bacterial biofilm. *PLoS One*. 2015;10(3):e0119531. doi:10.1371/journal.pone.0119531
3. Kim H, Izadjoo MJ. Antibiofilm efficacy evaluation of a bioelectric dressing in mono- and multi- species biofilms. *J Wound Care*. 2015;24(Suppl 2):S10-S14. doi:10.12968/jowc.2015.24.Sup2.S10
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5. Kazmers NH, Fragomen AT, Rozbruch SR. Prevention of pin site infection in external fixation: a review of the literature. *Strategies Trauma Limb Reconstr*. 2016;11(2):75-85. doi:10.1007/s11751-016-0256-4
6. Nuccitelli R. A role for endogenous electric fields in wound healing. *Curr Top Dev Biol*. 2003;58:1-26

This description of technique is provided as an educational tool and clinical aid to assist properly licensed medical professionals in the usage of specific Arthrex products. As part of this professional usage, the medical professional must use their professional judgment in making any final determinations in product usage and technique. In doing so, the medical professional should rely on their own training and experience and should conduct a thorough review of pertinent medical literature and the product's directions for use. Postoperative management is patient-specific and dependent on the treating professional's assessment. Individual results will vary and not all patients will experience the same postoperative activity level or outcomes.



Arthrex manufacturer, authorized representative, and importer information (Arthrex eIFUs)



US patent information