

JumpStart®

ANTIMICROBIAL WOUND DRESSING

JumpStart® Dressing

Advanced Microcurrent Technology to Combat Sternal Wound Infections (SWIs)

Wound infection after median sternotomy

is one of the most common surgical site infections (SSIs) following cardiac surgery¹

Superficial sternal wound infections (SSWIs) involve only the skin, subcutaneous tissue, and/or deep fascia and have no bony involvement²

Deep sternal wound infections (DSWIs) can affect muscle tissue, sternum, substernum, and mediastinum²

50%
of SSIs are preventable³

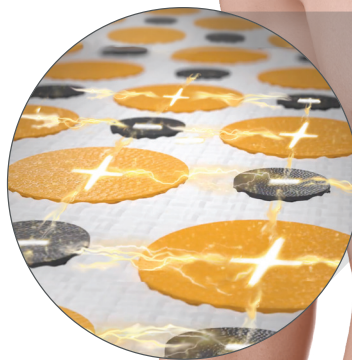
SWIs occur in 0.25%-5% of all cardiac surgery patients with median sternotomies^{2,4-5}

Increased costs of care: **\$7,981** for SSWI, **\$111,175** for DWSI⁵

Increased readmission rate of **~4.3%**⁵

JumpStart Dressing's Advanced Microcurrent Technology® Can Reduce the Risk

- Kills a broad spectrum of bacteria, including multidrug-resistant and biofilm-forming bacteria, and the **most common pathogens found in DSWIs (staphylococci and gram-negative bacteria)**⁶⁻⁸
- Embedded microcell batteries generate electricity designed to mimic the skin's natural electric current, which is essential for cell migration and healing⁶⁻⁷
- FlexEfit design is buildable to cover incisions of any length and angle
- Can be applied pre- and postoperatively to help reduce risk of infection



References

1. DynaMed. Sternal Wound Complications. Updated December 29, 2022. Accessed May 8, 2024. www.dynamed.com/condition/sternal-wound-complications 2. Song Y et al. Review on risk factors, classification, and treatment of sternal wound infection. *J Cardiothorac Surg.* 2023;18(1):184. doi:10.1186/s13019-023-02228-y 3. Berríos-Torres SJ, Umscheid CA, Bratzler DW, et al. Centers for Disease Control and Prevention guideline for the prevention of surgical site infection. 2017. *JAMA Surg.* 2017;152(8):784-791. doi:10.1001/jamasurg.2017.0904 4. Lazar HL, Salm TV, Engelman R, Orgill D, Gordon S. Prevention and management of sternal wound infections. *J Thorac Cardiovasc Surg.* 2016;152(4):962-72. doi:10.1016/j.jtcvs.2016.01.060 5. Downing M, Modrow M, Thompson-Brazill KA, Ledford JE, Harr CD, Williams JB. Eliminating sternal wound infections: Why every cardiac surgery program needs an i hate infections team. *JTCVS Tech.* 2023;14:19-93-103. doi:10.1016/j.jtc.2023.03.019 6. Kim H, Park S, Housler G, Marcel V, Cross S, Izadjoo M. An overview of the efficacy of a next generation electrochemical wound care device. *Mil Med.* 2016;181(5 Suppl):184-90. doi:10.7205/MILMED-D-15-00157 7. Banerjee J, Das Ghatik P, Roy S, et al. Silver-zinc redox-coupled electrochemical wound dressing disrupts bacterial biofilm. *PLoS One.* 2015;10(3):e0119531. doi:10.1371/journal.pone.0119531 8. Ma JG, An JX. Deep sternal wound infection after cardiac surgery: a comparison of three different wound infection types and an analysis of antibiotic resistance. *J Thorac Dis.* 2018;10(1):377-387. doi:10.21037/jtd.2017.12.109

JumpStart, FlexEfit, V. Dox, V. Dox Logo, and Advanced Microcurrent Technology are trademarks of Vomar Innovations, Inc.

JumpStart®
FlexEfit®

POWERED BY
V·DOX
TECHNOLOGY

arthrex.com

© 2024-07 Arthrex, Inc. All rights reserved. LI1-000185-en-US_A

Arthrex®