



Reduce the Risk of PTI With JumpStart® External Fixator Pin Site Dressing Kit

- Three-component pin site wound dressing kit
- Wraps easily around 4 mm, 5 mm, and 6 mm fixation pins
- Fits flush around pins without gapping or tenting
- Excellent absorption speed, wicking, and moisture retention
- Fixation clip is easy to grasp and slide down pin
- Maintains placement of the dressing *in situ*

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Pin-tract infection (PTI) is the most commonly expected problem... when using external fixation¹

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Complications could be devastating if it leads to the failure of the bone-pin interface²

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27.4%

Composite rate of PTI in patients of all ages with external fixation³

4%

Incidence of deep-tissue infections and osteomyelitis⁴

Complications from PTI may include^{2,4-5}:

- Delayed bone union
- Joint or fracture site contamination
- Pin loosening, which may lead to loss of fixation, loss of alignment, and/or frame instability
- Tenting of the skin
- Vessel or nerve damage
- Pain and limited patient function
- Abandoning external fixator treatment
- Osteomyelitis

Staphylococcus aureus is the most common cause of PTI⁵

References

1. Cerani D, Grumetz C, Desvaches O, Pusateri S, Dunand P, Samara E. From prevention of pin-tract infection to treatment of osteomyelitis during paediatric external fixation. *J Child Orthop*. 2016;10(6):605-612. doi:10.1007/s11832-016-0787-8 2. Ferreira N, Marais LC. Prevention and management of external fixator pin track sepsis. *Strat Traum Limb Recon*. 2012 Aug;7(2):67-72. doi:10.1007/s11751-012-0139-2 3. Iobst CA, Liu RW. A systematic review of incidence of pin track infections associated with external fixation. *J Limb Lengthen Reconstr*. 2016;2:6-16. doi:10.4103/2455-3719.182570 4. 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 5. Timms A, Pugh H. Pin site care: guidance and key recommendations. *Nurs Stand*. 2012;27(1):50-56. doi:10.7748/ns2012.09.27.1.50.c9271 6. Kim H, Makin I, Skiba J, et al. Antibacterial efficacy testing of a bioelectric wound dressing against clinical wound pathogens. *Open Microbiol J*. 2014;8:15-21. doi:10.2174/1874285801408010015 7. Banerjee J, Das Ghatak P, Roy S, et al. Silver-zinc redox-coupled electrocatalytic wound dressing disrupts bacterial biofilm. *PLoS One*. 2015;10(3):e0119531. doi:10.1371/journal.pone.0119531 8. Kim H, Izadjoo MJ. Antibiofilm efficacy evaluation of a bioelectric dressing in mono- and multi-species biofilms. *J Wound Care*. 2015 Feb;24 Suppl 2:S10-4. doi:10.12968/jowc.2015.24.Sup2.S10