## Resources

Baniya, P., Tebyani, M., Asefifeyzabadi, N., Nguyen, T., Hernandez, C., Zhu, K., Li, H., Selberg, J., Hsieh, H. C., Pansodtee, P., Yang, H. Y., Recendez, C., Keller, G., Hee, W. S., Aslankoohi, E., Isseroff, R. R., Zhao, M., Gomez, M., Rolandi, M., & Teodorescu, M. (2023). A system for bioelectronic delivery of treatment directed toward wound healing. *Scientific reports*, *13*(1), 14766. <a href="https://doi.org/10.1038/s41598-023-41572-w">https://doi.org/10.1038/s41598-023-41572-w</a>

Beard, G. M. (1868). The Medical Use of Electricity. In *The Medical Use of Electricity in the Form of General Electrization: Being a Paper Read Before the New York Academy of Medicine, July 3,* 1867 (pp. 1-10). The New York Printing Company.

Cheah, Y. J., Buyong, M. R., & Mohd Yunus, M. H. (2021). Wound Healing with Electrical Stimulation Technologies: A Review. *Polymers*, *13*(21), 3790. <a href="https://doi.org/10.3390/polym13213790">https://doi.org/10.3390/polym13213790</a>

Crocq, M., MD. (2000). From Shell Shock and War Neurosis to Posttraumatic Stress Disorder: A History of Psychotraumatology. *Dialogues Clinical Neuroscience*. 2(1): 47-55. Retrieved March 19, 2024 from <a href="https://pubmed.ncbi.nlm.nih.gov/22033462/">https://pubmed.ncbi.nlm.nih.gov/22033462/</a>

Davis, D. Jr. (1847). Smee's Battery. In *Davis's Manual of Magnetism* (pp.15-16). Daniel Davis, Jr. Retrieved March 22, 2024 from <u>Digital Collections - National Library of Medicine (nih.gov)</u>

Dorrian, R. M., Berryman, C. F., Lauto, A., & Leonard, A. V. (2023). Electrical stimulation for the treatment of spinal cord injuries: A review of the cellular and molecular mechanisms that drive functional improvements. *Frontiers in cellular neuroscience*, *17*, 1095259. https://doi.org/10.3389/fncel.2023.1095259

Evans, J. P., & Sen, C. K. (2023). Electrochemical Devices in Cutaneous Wound Healing. *Bioengineering (Basel, Switzerland)*, 10(6), 711. https://doi.org/10.3390/bioengineering10060711

Farber, P. L., Isoldi, F. C., & Ferreira, L. M. (2021). Electric Factors in Wound Healing. *Advances in wound care*, 10(8), 461–476. <a href="https://doi.org/10.1089/wound.2019.1114">https://doi.org/10.1089/wound.2019.1114</a>

Heidland, A., Fazeli, G., Klassen, A., Sebekova, K., Hennemann, H., Bahner, U., & Di Iorio, B. (2013). Neuromuscular electrostimulation techniques: historical aspects and current possibilities in treatment of pain and muscle waisting. *Clinical nephrology*, *79 Suppl 1*, S12–S23. https://pubmed.ncbi.nlm.nih.gov/23249528/

Johnson M. (2007). Transcutaneous Electrical Nerve Stimulation: Mechanisms, Clinical Application and Evidence. *Reviews in pain*, 1(1), 7–11. <a href="https://doi.org/10.1177/204946370700100103">https://doi.org/10.1177/204946370700100103</a>

Kennedy, Dan. (2023) "Bioelectric Bandage Incites Army Interest" U.S. Army Medical Research and Development Command. Retrieved March 13, 2024 from <a href="https://mrdc.health.mil/index.cfm/media/articles/2012/bioelectric bandage incites army interest">https://mrdc.health.mil/index.cfm/media/articles/2012/bioelectric bandage incites army interest</a>

Levin, A., Gong, S., & Cheng, W. (2023). Wearable Smart Bandage-Based Bio-Sensors. *Biosensors*, *13*(4), 462. https://doi.org/10.3390/bios13040462

Licht, E. (1959). Therapeutic Electricity and Ultraviolet Radiation. Waverly Press, Inc.

Lindquest, R.J. (1948). Approach to Electrotherapy. Anderson & Ritchie: The Ward Ritchie Press.

Linker, B. (2011). War's Waste: Rehabilitation in World War I America. University of Chicago Press.

Nuccitelli, R., Nuccitelli, P., Li, C., Narsing, S., Pariser, D. M., & Lui, K. (2011). The electric field near human skin wounds declines with age and provides a noninvasive indicator of wound healing. *Wound repair and regeneration:* official publication of the Wound Healing Society [and] the European Tissue Repair Society, 19(5), 645–655. <a href="https://doi.org/10.1111/j.1524-475X.2011.00723.x">https://doi.org/10.1111/j.1524-475X.2011.00723.x</a>

Peters, M. D. (2021). AFOSR Advances Sciences of Wound-Healing Technology. *AFRL News*. Retrieved March 21, 2024 from AFOSR advances science of wound-healing technology > Air Force > Article Display

Ranney, A. L. (1887). Static Electricity in Medicine: An Exposition of the Different Forms of Generators which May be Employed, and the Various Methods of Application of this Therapeutical Agent; Together with Hints Respecting the Care and Management of Induction-Machines and the Selection of Apparatus. Reprinted from The Physician and Surgeon. (n.p.) Retrieved March 19, 2024 from Digital Collections - National Library of Medicine (nih.gov)

Rajendran, S. B., Challen, K., Wright, K. L., & Hardy, J. G. (2021). Electrical Stimulation to Enhance Wound Healing. *Journal of functional biomaterials*, 12(2), 40. <a href="https://doi.org/10.3390/jfb12020040">https://doi.org/10.3390/jfb12020040</a>

Tatu, L., Bogousslavsky, J., Moulin, T., & Chopard, J. L. (2010). The "torpillage" neurologists of World War I: electric therapy to send hysterics back to the front. *Neurology*, *75*(3), 279–283. <a href="https://doi.org/10.1212/WNL.0b013e3181e8e6fd">https://doi.org/10.1212/WNL.0b013e3181e8e6fd</a>

Tender, L. (n.d). Bioelectronics for Tissue Regeneration (BETR). *Defense Advanced Research Projects Agency*. Retrieved March 22, 2024 from <u>Bioelectronics for Tissue Regeneration (darpa.mil)</u>

VHA Clinical Management Program (PCMP) Clinical Practice Recommendations: Transcutaneous Electrical Nerve Stimulations (TENS Units). Retrieved on January 14, 2024 from untitled (va.gov)

Vogel, E. E. (1968). Physical Therapists Before World War II (1917-40). In *Army Medical Specialist Corps* (p. 64). Office of the Surgeon General Department of the Army. Retrieved on March 19, 2024 from <a href="https://achh.army.mil/history/corps-medical-spec-chapteriii">https://achh.army.mil/history/corps-medical-spec-chapteriii</a>

Welzel, G., & Schuster, S. (2021). Efficient high-voltage protection in the electric catfish. *The Journal of experimental biology*, 224(Pt 4), jeb239855. <a href="https://doi.org/10.1242/jeb.239855">https://doi.org/10.1242/jeb.239855</a>

Author Unknown. Human Performance Resources by CHAMP at USU (2021). Five Ways to Manage Chronic Pain for Military Wellness. *Health.Mil*. Retrieved on December 21, 2023 from <a href="https://health.mil/News/Articles/2021/09/30/Five-ways-to-manage-chronic-pain-for-military-wellness?type=Fact+Sheets">https://health.mil/News/Articles/2021/09/30/Five-ways-to-manage-chronic-pain-for-military-wellness?type=Fact+Sheets</a>

Author Unknown. Defense Advanced Research Projects Agency (2019). Intelligent Healing for Complex Wounds: A Bioelectric Interface Could Speed the Body's Natural Healing Processes to Deliver Faster Recovery from Wounds with Fewer Complications. Retrieved on March 20, 2024 from <a href="Intelligent Healing for Complex Wounds">Intelligent Healing for Complex Wounds (darpa.mil)</a>