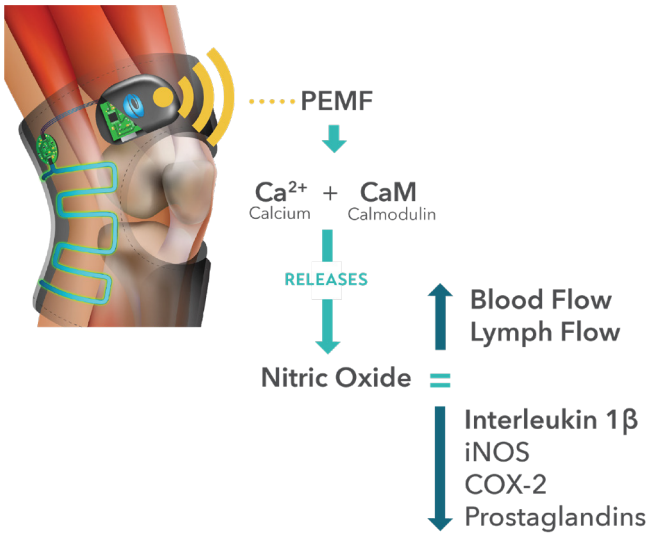
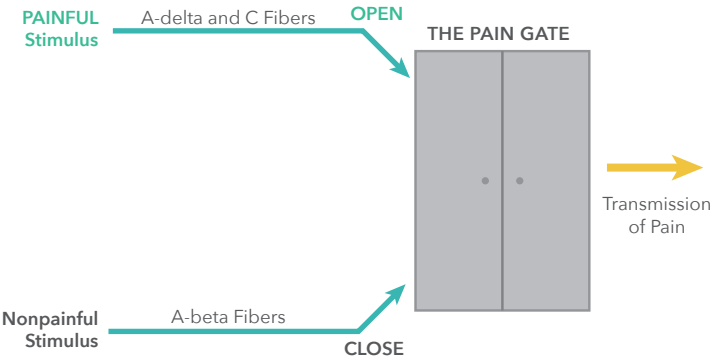
OrthoCor™ MEDICAL

Technology Comparison: PEMF vs. TENS

Pulsed Electromagnetic Field (PEMF) therapy is an opioid-free pain relief alternative, and is safe and effective for everything from minor aches to chronic pain. See how it compares against the competition.

PEMF	vs.	TENS
		
Pulsed Electromagnetic Field (PEMF) therapy kick starts the body's natural healing processes, provides pain relief, and mitigates swelling		Transcutaneous electrical nerve stimulation (TENS) delivers electric impulses for temporary pain relief only while the technology is active
Long term pain and swelling relief		Short term pain relief and temporarily masks pain
Clinically proven to provide 60% reduction in Osteoarthritis pain[1], 66% Reduction in post-operative pain[2], 2.2-fold reduction in narcotic consumption[3], and 7 times reduction in edema[3]		Minimal clinical efficacy and minimal therapeutic value
Cleared by the FDA as a Class II medical device. Physician's prescription (Rx) required		Cleared for over the counter (OTC) use, no prescription (Rx) required
Soothing warmth		Painful and uncomfortable; can cause muscle twitch
Simple to use device. OrthoPods click into place and the therapy treatment automatically begins		Complicated settings or adjustments
Can be applied over clothing. Anatomically design wraps fit the nine major parts of the body		Requires direct contact with the skin
Can be used anytime, anywhere, only 2 hours a day.		Timely set-up limits usability

References:

1) F.R. Nelson, R. Zvirbulis, A.A. Pilla, "Non-invasive electromagnetic field therapy produces rapid and substantial pain reduction in early knee osteoarthritis: a randomized double-blind pilot study," Rheumatology International, March 2012.

2) Rohde, "Effects of Pulsed Electromagnetic Fields on Interleukin-1β and Postoperative Pain: A Double-Blind, Placebo-Controlled, Pilot Study in Breast Reduction Patients," Am Soc of Plas Surg, vol. 125, pp. 1620-1629, 2010.

3) A.A. Pilla, "State of the Art in Electromagnetic Therapeutics: Soft Tissue Applications," Electricity and Magnetism in Biology and Medicine, F Bersani, ed., Plenum, NY, 1999, pp. 871-874.

MODALITY COMPARISON CHART

OrthoCor Medical's Active and Advanced system both use Pulsed Electromagnetic Field (PEMF) therapy. The chart below outlines how PEMF compares against other pain relief modalities.

		AFFORDABILITY	EASE OF USE/ ACCESSIBILITY	NO ADVERSE SIDE EFFECTS	TREATMENT NOTES
	OrthoCor MEDICAL *PEMF THERAPY*	●●●●	●●●●	●●●●	Treats root cause of pain, cost effective, clinically validated efficacy in most convenient setting
MEDICATION	NSAIDS	●●●●	●●●●	—	Limited efficacy and concerns over long-term reliance
MEDICATION	OPIOID-BASED PAIN RELIEF	●●	●●	—	High short-term efficacy with significant side effects and risk of dependency
RESTORATIVE	PHYSICAL/MASSAGE THERAPY	●	—	●●●●	Expense and inconvenience limited patient compliance & Payor interest
RESTORATIVE	BEHAVIORAL MODIFICATION	●●●	●	●●●●	Unsubstantiated efficacy coupled with challenging patient compliance dynamic
INTERVENTIONAL PROCEDURES	STEROIDS/NERVE BLOCKERS INJECTION	●●	●	—	Limited-duration solution requiring periodic administration in acute setting
INTERVENTIONAL PROCEDURES	NEURO-MODIFICATION IMPLANT	—	—	●●	High-acuity event require patient action post procedure
INTERVENTIONAL PROCEDURES	SURGERY	—	—	●	Viable for only a subset of chronic pain patients with sub-100% efficacy