



Dr. Darryl Barnes, MD – Mayo Clinic



THE ORTHOCOR STORY

The OrthoCor Active System was developed by Dr. Darryl Barnes in a partnership between OrthoCor, Mayo Clinic, and the University of Minnesota. Dr. Barnes has also developed other notable medical devices such as Tenex Health, and Sonex Health. The OrthoCor Active System concept was based on preliminary clinical evidence that FDA Cleared Bone Growth Stimulators could be modified to heal soft tissue and reduce or eliminate pain.

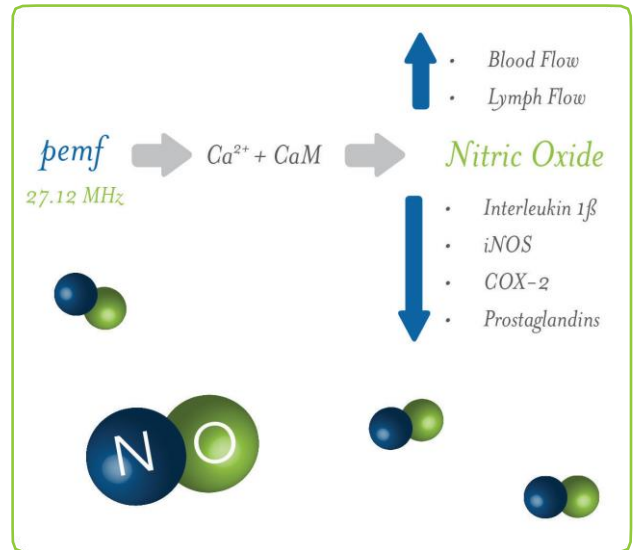
The OrthoCor Active System utilizes Pulsed Electro-Magnetic Field Therapy (PEMF) at a frequency of 27.12 MHz. The frequency utilized for soft tissue and pain mitigation is much higher as compared to 76.6 Hz in a bone growth stimulator. The PEMF technology in the OrthoCor Active System showed in recent studies a 66% reduction in post-operative pain and a 60% reduction in Osteoarthritis pain.

The OrthoCor Active System accomplishes this through a clinically proven cellular level mechanism of action. The 27.12 MHz Pulsed Electro Magnetic Field produces an ionic bond between Calcium (Ca) and Calmodulin (CaM) (CaM/Ca²⁺). The result is a significant increase in the levels of Nitric Oxide (NO) in the treatment area. The increased Nitric Oxide (NO) results in increased blood flow, Lymphatic flow, as well as the inhibition of COX-2 and Interleukin 1β.

The OrthoCor Active System has been engineered for all major body parts. The OrthoCor Active system is a Non-Narcotic, Non-Opiate, Non-Pharmacological pain relief alternative. The device was cleared by the FDA as a Class III device (safety & efficiency) proven to restore blood flow, enhance revascularization of tissue and provide pain relief while initiating the body's natural healing process.

The OrthoCor Active System received dual labeling for:

- (1) the temporary relief of minor muscle, joint aches and pain associated with overexertion, strains, sprains and arthritis; and,
- (2) the adjunctive use in the palliative treatment of post-operative pain and edema in superficial soft tissue.



The OrthoCor Active System is easy to use, comfortable to wear and only requires a 2-hour treatment each day.

Please contact your local OrthoCor Sales Representative when you are ready to begin offering the OrthoCor Active Systems to your patients; your patients will appreciate this unique Non-Narcotic, Non-Opiate, pain relief alternative.



ANKLE



BACK



CERVICAL



ELBOW



KNEE



SHOULDER



WRIS

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