



Oska Pulse A PEMF Device

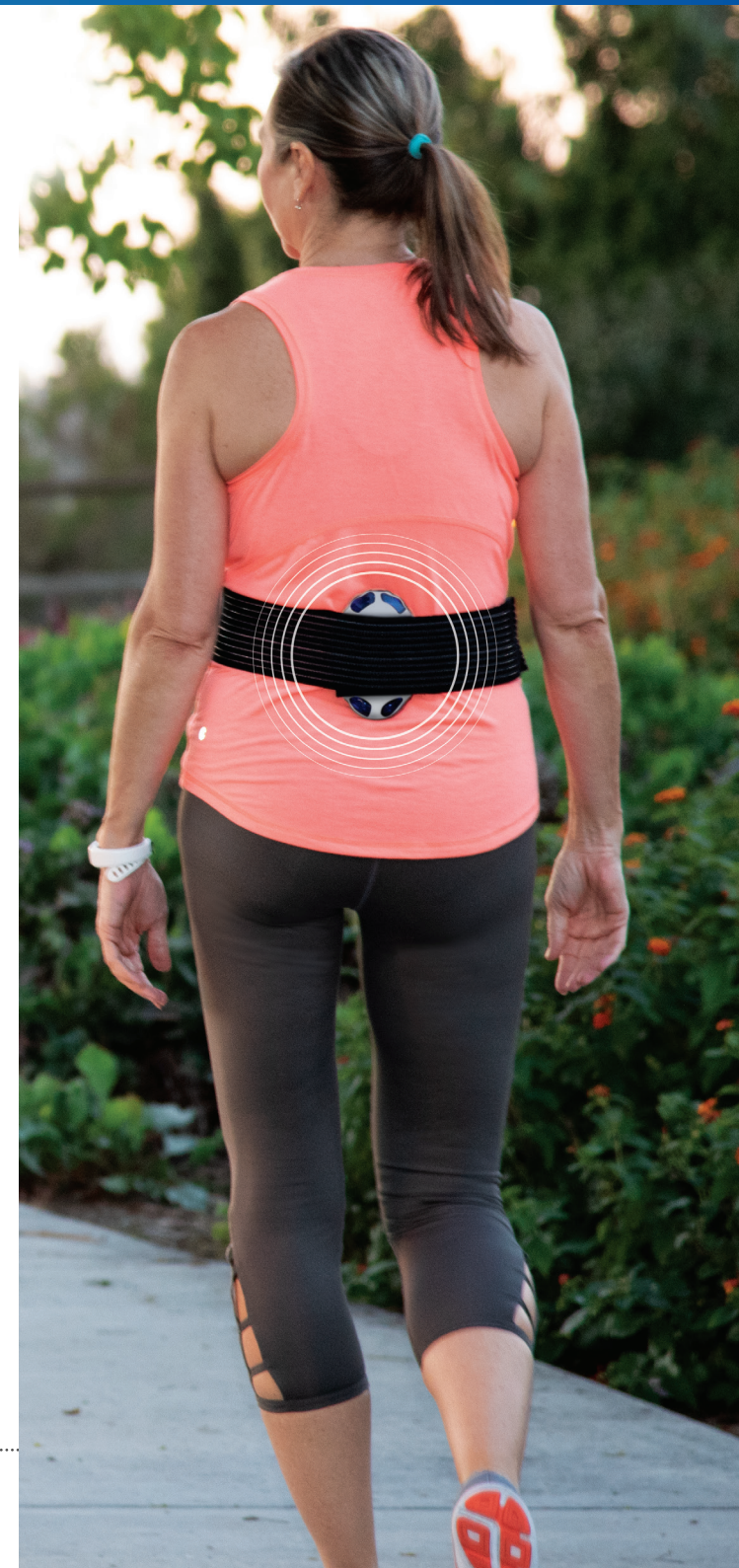
Mechanism of Action and Evidence



OskA Pulse From Your Doctor is a wearable pain relief device utilizing PEMF (Pulsed Electromagnetic Field) technology. PEMF is commonly used in bone growth stimulators to heal non-union fractures. The literature shows at various frequencies that PEMF can help with soft tissue injuries by reducing pain and inflammation and increasing blood flow.

BENEFITS

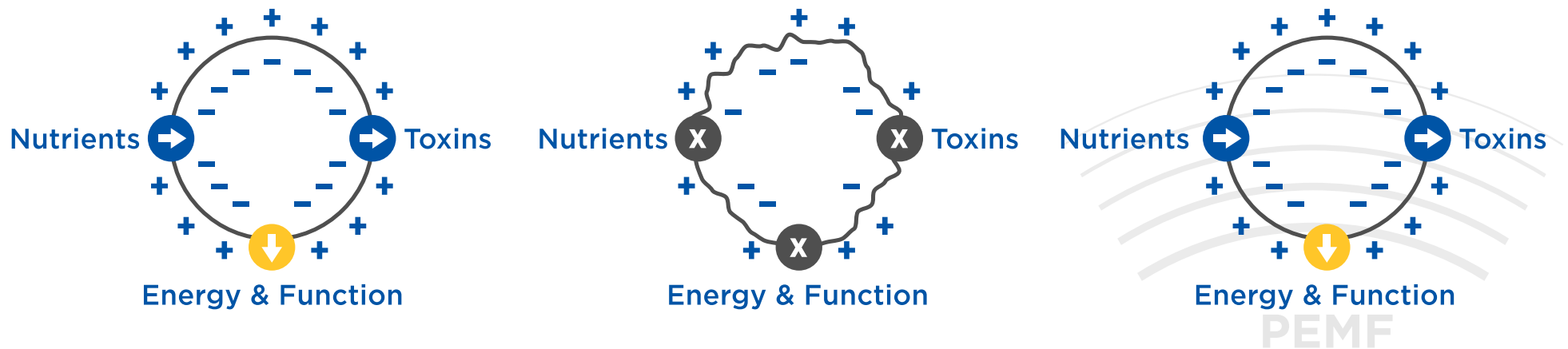
- **Non-drug and completely non-invasive** – Uses Pulsed Electromagnetic Fields (PEMF) to relieve pain
- **Easy to use** – Just wrap on injured area, push the button, and go
- **Safe** – There are no known side effects from Oska Pulse or PEMF technology
- **Effective** – Thousands of studies exist that prove PEMF can decrease pain and inflammation and increase functional scores
- **Unlimited sessions** – Rechargeable lithium ion battery for unlimited uses
- **Patent-pending treatment cycle** – Helps to increase blood flow, decrease pain, stimulate collagen, and increase bone growth





PEMF TECHNOLOGY

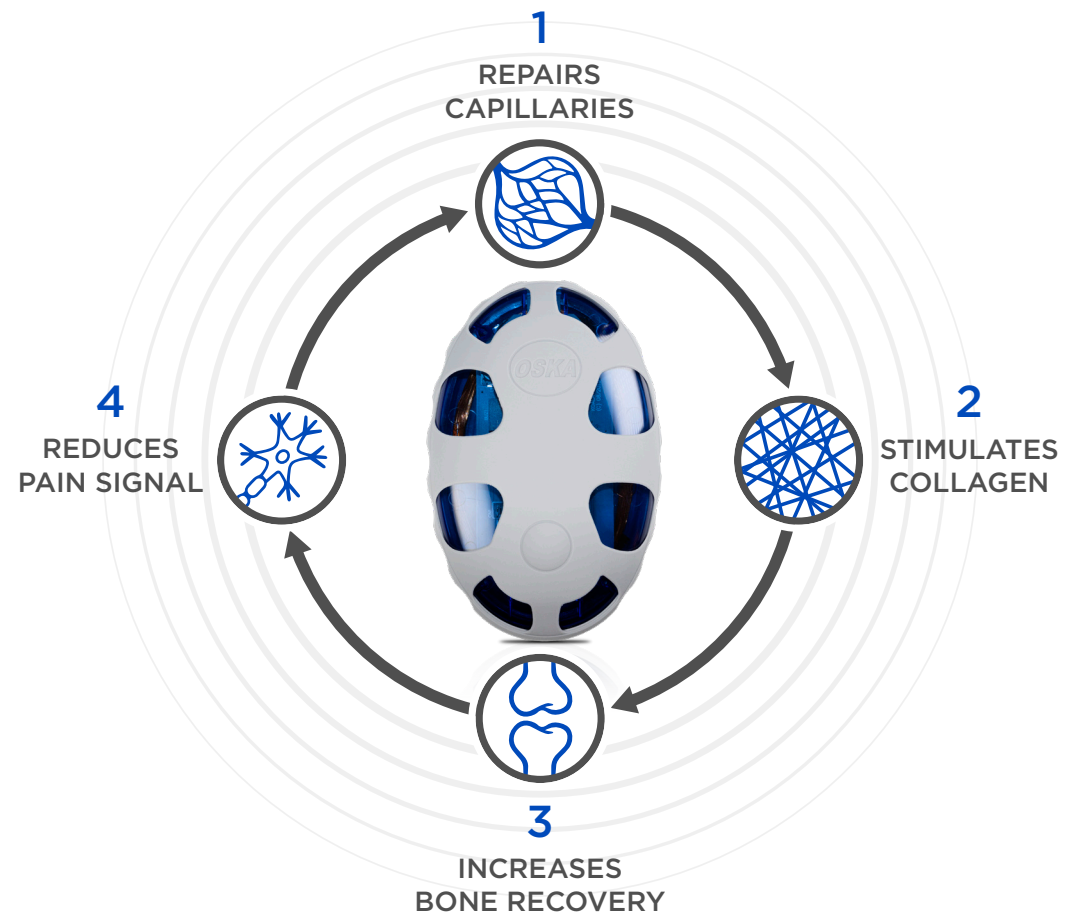
When cells are distressed from disease, trauma, starvation or toxins, their metabolic productivity is degraded. PEMF aids in the restoration of the electrical potential across the cellular and mitochondrial membranes restoring metabolic productivity and speeding tissue recovery.



OSKA PATENT PENDING THERAPY CYCLE

Much of the pain we experience is a result of tissue inflammation. When tissue is distressed from pathogens, toxins, trauma, ruptures, temperature or other damage, the body's inflammatory response results in edema, heat, redness, pain and reduction in function or mobility.

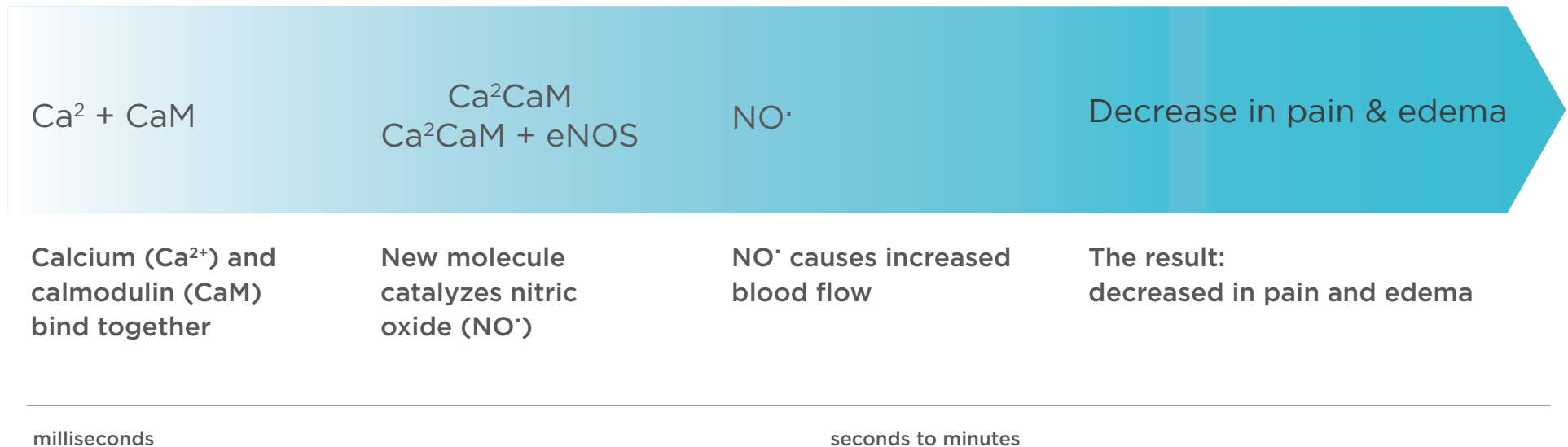
During each 3-hour session, Oska Pulse rotates through four precise frequencies targeted at key cell types designed to accelerate the resolution of the tissue's inflammatory response, improve micro-circulation, degrade pain signals and stimulate tissue regeneration.



MECHANISM OF ACTION

1. **Analgesia:** Edogenous opioids such as endorphins and enkephalins are released which help to reduce pain signals.
2. **Anti-Inflammatory:** Vasodilation coupled with a down regulation of inflammatory agents leads to reduction in inflammatory response.
3. **Promote Tissue Healing:** Reduction in tissue inflammation, increasing ATP production and an increase in extracellular growth factors all help to promote healing.

PEMF: Natural anti-inflammatory cascade



EVIDENCE BASED MEDICINE

Built on 60+ Years of Clinically Proven
PEMF Technology



CHRONIC PAIN

Low Back Pain

Osteoarthritis

Tendonitis

Neuropathy

ACUTE PAIN

Muscle Sprain

Micro Fracture

Muscle Soariness

Muscle Strain

Ligament Strain

POST-OP RECOVERY

Post-op Pain

Fusions

Fractures

Ligament Reconstruction

Total Joint Arthroplasty

Tendon or Muscle Recovery

OSKA PULSE vs. TENS



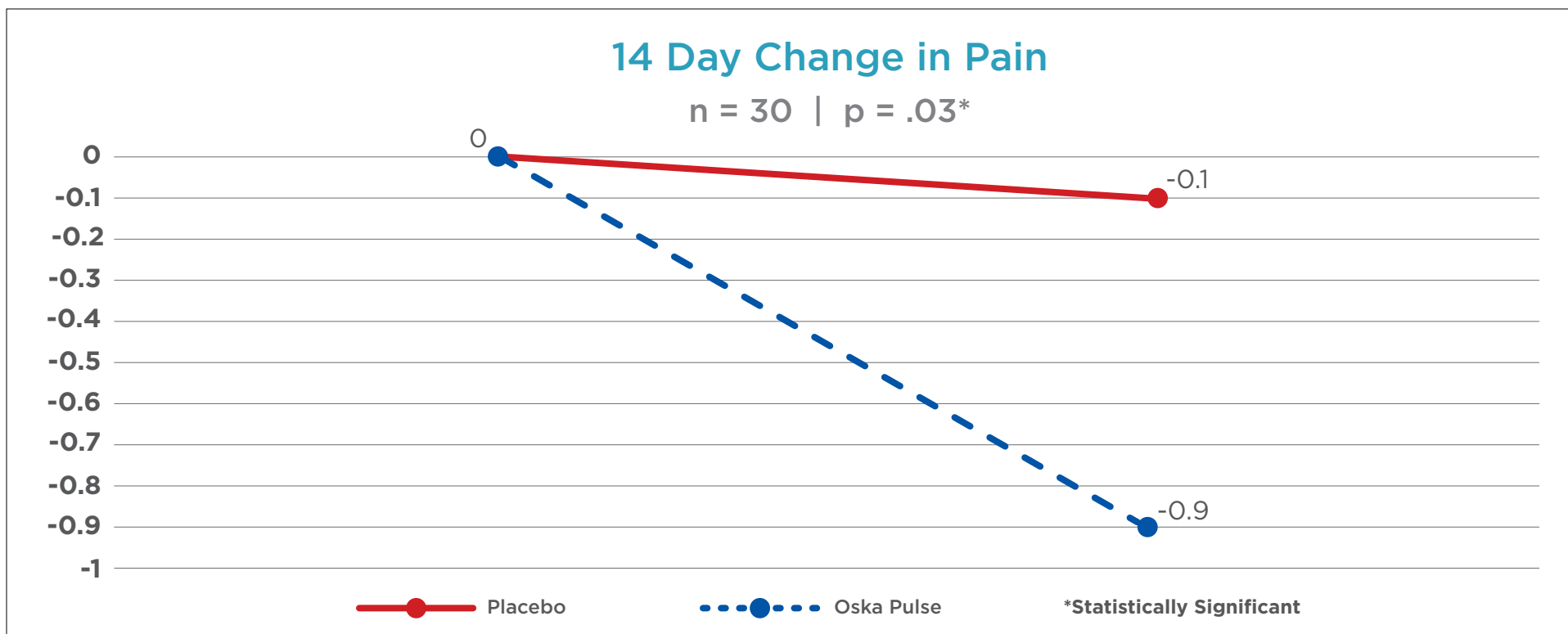
OSKA Pulse from Your Doctor	TENS
PEMF = Pulsed electromagnetic field therapy	TENS = Transcutaneous electrical nerve stimulator
Targets root cause of pain (inflammation)	Targets symptom, blocks pain signal (covers up pain)
All tissue forms, penetrates through body	Soft or nerve tissue, between two points
Portable, Simple to use (one touch)	Multiple settings and configurations
\$ - Rechargeable, no electrodes (1x)	\$\$\$ - Pads, electrodes, batteries (reoccurring)

Clinical Studies

SCRIPPS PAIN STUDY

Treating Chronic Pain Using the Oska Pulse Device: A double blind clinical trial with placebo.

- 30 patients with chronic shoulder, back, or knee pain
- 15 each utilize Oska Pulse or sham unit assigned randomly
- Pain and stress scores in daily log were based on a 10-point Likert scale



* Davis, K., Shurman, et.al, J Pain Mgmt (2018) vol10, iss2.



LOW BACK PAIN

Efficacy of PEMF for Chronic Low Back Pain

- Double-blind Active PEMF (n=17) vs Placebo (n=19)
- Patients had low back pain >3 months
- Treatment 3 times per week over 3 weeks, patients rated by Oswestry Disability Index for 4 weeks after treatment
- Results PEMF reduced pain & disability and is potential therapy for conservative management of low back pain*
- No significant changes in placebo group

*Lee et.al, J Int Med Research (2006) 34,160-167.



CARTILAGE STUDIES

Does PEMF directly affect articular cartilage?

- Exposing cartilage to PEMF technology
- Proteoglycan (PGs) fundamental component of cartilage. PG loss observed in Osteoarthritis
- Results - After 24 hours of exposure to PEMF significantly incur PG synthesis of articular cartilage

Effect of PEMF on Hyaline cartilage: review of experimental & clinical studies

- PEMF has shown increase in glycosaminoglycan levels with anti-inflammatory effect
- Chondrocyte proliferation significantly enhanced by PEMF
- Conclusion – data strongly support the clinical use of PEMF in OA patients

*De Mattei et.al, *OsteoArthritis and Cartilage* 15 (2007)163-168.

** M. Fini et al. / *Biomedicine & Pharmacotherapy* 59 (2005) 388–394

OA STUDIES

Effect of PEMF on Osteoarthritis Meta-Analysis of Randomized Controlled Trials

- Nine studies, 483 patients
- Conclusion – PEMF improve clinical scores and function in OA patients and should be considered as adjunctive therapy in their management

PEMF in Knee Osteoarthritis: double blind randomized clinical trial

- 60 Patients with radiographic knee OA & VAS of 4
- 1 month treatment for 12 hours per day
- Conclusion – after 1 month significant reduction in VAS and WOMAC scores
- 26% stopped NSAID/analgesic therapy
- No adverse affects

*De Mattei et.al, OsteoArthritis and Cartilage(2007)15,163-168.

** Rheumatology (Oxford) 2016 Apr; 55(4): 755-762



Oska, Inc.

300 Carlsbad Village Drive, Suite 111A
Carlsbad, CA 92008 U.S.A

oskawellness.com | +1-844-630-9932

© 2020 All rights reserved.

This document and any attached materials are the sole property of Oska, Incorporated and are not to be used by you other than to evaluate Oska, Inc.

This document and any attached materials are not to be disseminated, distributed, or otherwise conveyed throughout your organization to employees without a need for this information or to any third parties without the express written permission of Oska, Inc.