

OSTEOARTHRITIS

Title: A Prospective, Randomized, Double-Blind, Placebo Controlled Feasibility Study to Evaluate Efficacy and Safety of an Active Pulsed Electromagnetic Field for the Treatment of Osteoarthritis of the Knee

Purpose: The primary objective of this study is to prospectively determine, at 12 months post treatment, the safety and efficacy of treating OA of the knee with PEMF

The secondary objectives of this study are to examine the effect of PEMF therapy on the:

- Maintenance of bone and cartilage structure measured by Peripheral Quantitative Computed Tomography (pQCT) and magnetic resonance imaging (MRI) respectively;

- The suppression of inflammation and improvement in matrix biology measured by soluble biomarkers; and
- Correlate the clinical response with structural and anti-inflammatory effects of PEMF of relevance to OA.

Eligibility: Patients diagnosed with osteoarthritis may be eligible for this study.

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Phase: II