

**Official title: Efficacy of High Energy Density  
Pulse Electromagnetic Field for Patients With  
Rotator Cuff Tendinopathy: A Double-  
blinded, Randomized Controlled Trail**

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## **Study Protocol with SAP**

**objective(s):** We aimed to evaluate the efficacy of high-energy-density pulsed electromagnetic field therapy combined with physiotherapy in treating rotator cuff tendinopathy.

**methods:** The study had a randomized controlled trial with a two-parallel-group design. We included patients with RCT to compare the differences in the effectiveness of high PEMF in the treatment of shoulder joint mobility, pain, and functionality. The patients were categorized into those who received high PEMF with physiotherapy (high PEMF group) and those who received sham PEMF with physiotherapy (sham-PEMF group). The treatment course extended over 3 weeks, incorporating evaluations at baseline, immediately after treatment, and 4 and 12 weeks after treatment.

**statistical analysis plan:** Statistical analyses were performed using the IBM SPSS Statistics Version 22. Demographic data were analyzed using the Mann–Whitney U test for continuous variables and the chi-squared test or Fisher’s exact test for categorical variables. Within-group differences were assessed using the Wilcoxon signed-rank test; between-group differences were evaluated using the Mann–Whitney U test. Statistical significance was defined as  $p < 0.05$ .