

EMSCULPT NEO FUNCTIONAL WELLNESS: IMPROVEMENT IN MUSCLE FUNCTION

SIMULTANEOUS APPLICATION OF HIFEM PROCEDURE AND RADIOFREQUENCY
FOR IMPROVEMENT OF MUSCULAR SYSTEM FUNCTION - PRELIMINARY DATA

Mohamed Abdulhamid, MD, FAANS¹, Philip Saville, MD², Jonathan Schoeff, MD³

1. Royal Spine Surgery, AZ; 2. Saville Spine Institute, FL ; 3. The Longevity Lab, CO

HIGHLIGHTS

- **32 patients** (32 - 83 years old, BMI 27 ± 4 kg/m²) with atrophied muscles due to surgery, refrained physical activity, or injury were enrolled in the study
- Subjects were allocated into two groups: **active group** and **sham group**
- Subjects were not limited from undergoing any additional treatments such as physical therapy
- **Four 30-minute HIFEM + RF treatments** scheduled **once a week** were delivered on the **lower extremities**
- **Muscle strength** of the treated muscles (quadriceps, hamstrings, calves) was measured by a dynamometer

3x

MUSCLE STRENGTH
INCREASE IN ACTIVE
GROUP COMPARED
TO SHAM

90%

SUBJECTS
REPORTED MUSCLE
RE-EDUCATION

95%

SUBJECTS REPORTED
INCREASED COMFORT
DURING DAILY PHYSICAL
ACTIVITIES

RESULTS

- Dynamometer measurements showed that the **active treatment group's muscle strength increased threefold compared to the sham group** immediately after the last treatment
- **95%** of the subjects reported that the treatment helped them with **atrophy/weakness**, and **they feel more comfortable during physical activities** in the treated area at the 1-month follow-up visit
- **90%** of the subjects reported that the treatments have helped with **muscle re-education** (restored muscle engagement and normal movement) at the 1-month follow-up visit
- **80%** of the subjects reported that the treated **muscles feel less prompt to injury** at the 1-month follow-up visit

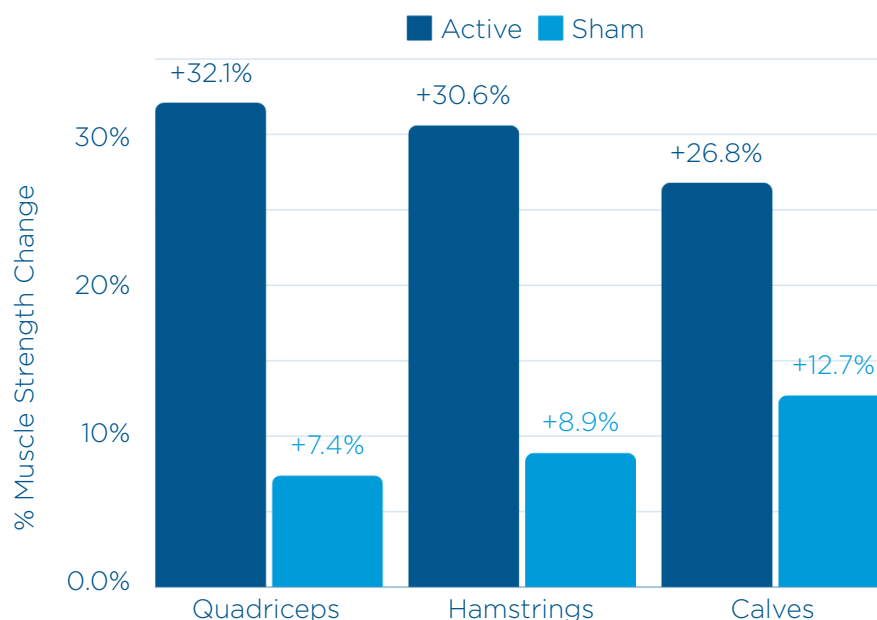


Figure 1 - Muscle strength increase comparison between Active and Sham group after the last treatment

PATIENT CASE

A 73-year-old female subject presented with left quadriceps muscle weakness and a history of lumbar surgery

- **30.7% muscle strength improvement** in the treated area at the 1-month follow-up
- The subject described **improved flexibility after the treatments** and an **increased range of motion** at the 1-month follow-up visit
- The subject reported **engaging in sports activities again** (playing golf) at the 1-month follow-up visit