

# EMSCULPT<sup>neo</sup>®

## Functional Wellness: Improvement in Joint Function

Non-Invasive HIFEM Technology for Musculoskeletal System Enhancement: A Prospective Interventional Study

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### Highlights

- **36 patients** (23 - 78 years old, BMI 18.5 - 32.7 kg/m<sup>2</sup>) with a history of musculoskeletal and joint issues were enrolled in the study
- **Four 30-minute HIFEM treatments** scheduled **5-10 days apart** were delivered on the **upper or lower extremities**
- **WOMAC** and **DASH** questionnaires were used to evaluate treatment results
  - WOMAC (Western Ontario and McMaster Universities Osteoarthritis Index)** is designed to evaluate the condition of patients with osteoarthritis of the knee and hip
  - DASH (The Disabilities of the Arm, Shoulder, and Hand Questionnaire)** is used to measure physical function and symptoms in individuals with upper extremity musculoskeletal disorders

68%

Average  
Improvement In  
WOMAC & DASH Score

91%

Subjects Reported  
An Increase In  
Range Of Motion

97%

Subjects Reported  
That Their Treated  
Joints Feel Better

## Results At The 3-Month Follow-Up

- **68% average** improvement in WOMAC score (indicating improvement of **pain, stiffness, and physical function of lower extremities**)
- **68% average** improvement in DASH score (indicating improvement of **physical function and disability level of upper extremities**)
- **97%** of subjects reported that their **treated joints feel better**
- **85%** of subjects reported a **reduction of discomfort** in the treated area
- **91%** of subjects reported **an increased range of motion** in the treated area
- **82%** of subjects reported **improvement in mobility in the treated area**

### Patient changes in selected WOMAC domains

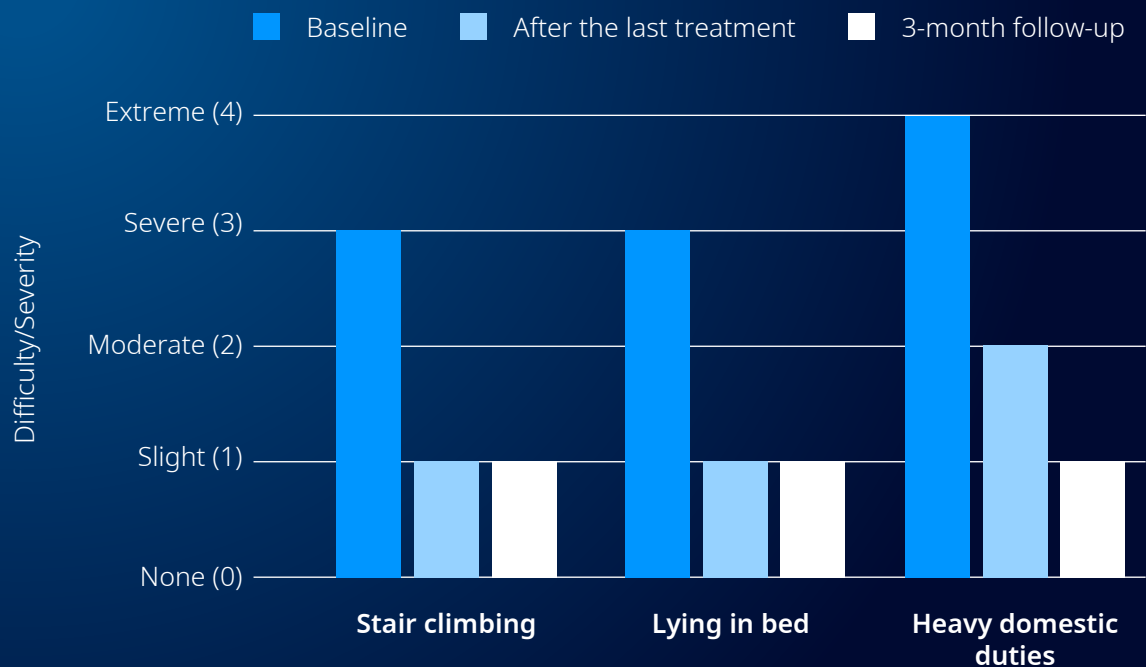


Figure 1 – Patient's changes in selected WOMAC domains

**A 62-year-old male** patient presented with **left knee pain, which did not improve after physical therapy**

- At baseline, the patient experienced **extreme difficulty performing heavy domestic duties, severe pain, when climbing stairs, and significant discomfort while lying in bed**
- At the 3-month follow-up, the patient reported **that he started working out, noticeable improvements in range of motion and mobility, along with reduced discomfort**