

## **Vivien Jorgensen Et al 2025 Abstract**

### **Effects of Transcutaneous Spinal Cord Stimulation on Spinal Cord Spasticity**

#### **Objective**

The study assessed patient-reported effects of transcutaneous spinal cord stimulation (tSCS) on spasticity after multiple treatment.

#### **Results**

Fourteen participants reported a clinically important improvement in ADL performance, sleep disturbance and/or a decrease in pain due to spasticity. The majority of the participants perceived clinically relevant improvements on at least one patient-reported outcome measure, and no adverse events were reported. This is a simple and a non-invasive treatment that may have a potential of reducing the troublesome effects of spasticity.

#### **Participants and Researchers**

Seventeen people participated with injury levels of C6-T12, AIS A-D, and a mean age of 51 years.

The researchers were: *Vivien Jørgensen* and *Anne Marie Lannem*, Department of Research, Sunnaas Rehabilitation Hospital, Bjørnemyr, Norway; *Anne Birgitte Flaaten*, Department of Follow-up of Spinal Cord Injury, Sunnaas Rehabilitation Hospital and *Páll E. Ingvarsson*, Landspítali University Hospital, Department of Rehabilitation, Grenás, Reykjavik, Iceland.

#### **Methods**

Participants received 30 minutes of tSCS (continuous, asymmetrical, biphasic rectangular impulses) applied for three to six consecutive days using **NeuroTrac MultiTENS** (Verity Medical). Two electrodes were placed paravertebrally at Th11–Th12 level and two on lower abdomen.

The abstract can be found at: <https://pubmed.ncbi.nlm.nih.gov/39819354/>