

Somatosensory electrical stimulation to augment skill acquisition and motor memory consolidation: An electroencephalography study

No registrations found.

Ethical review	Not applicable
Status	Pending
Health condition type	-
Study type	Interventional

Summary

ID

NL-OMON22077

Source

Nationaal Trial Register

Health condition

Cerebral bleeding, disability, wrist fracture

Sponsors and support

Primary sponsor: University Medical Center Groningen

Source(s) of monetary or material Support: University Medical Center Groningen

Intervention

Outcome measures

Primary outcome

Primary outcome measure is the tracing error in the visuomotor task

Secondary outcome

Secondary outcome measures are mechanistic measures as assessed with electroencephalography. Specifically, we examine changes in the N30-component, event-related desynchronization, and resting-state coherence.

Study description

Study objective

Increases in motor performance after motor practice and somatosensory electrical stimulation are mediated by changes in brain activity as assessed by electroencephalography

Study design

pre-test, post-test, follow-up intervention design

Intervention

Weak somatosensory electrical stimulation applied to the right hand, in some conditions combined with non-invasive visuomotor practice with the right wrist flexors and extensors during a 20-minute session

Contacts

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Eligibility criteria

Inclusion criteria

Age 18-30 or 65+, Right handed based on the Edinburgh inventory

Exclusion criteria

Fracture in the upper extremity over the past year, neurological disorders, health and psychological disorders, medication affecting central nervous system functioning, MMSE score <26

Study design

Design

Study type:	Interventional
Intervention model:	Factorial
Allocation:	Randomized controlled trial
Masking:	Single blinded (masking used)
Control:	Active

Recruitment

NL	
Recruitment status:	Pending
Start date (anticipated):	01-03-2016
Enrollment:	125
Type:	Anticipated

Ethics review

Not applicable	
Application type:	Not applicable

Study registrations

Followed up by the following (possibly more current) registration

ID: 43412

Bron: ToetsingOnline

Titel:

Other (possibly less up-to-date) registrations in this register

No registrations found.

In other registers

Register	ID
NTR-new	NL5484
NTR-old	NTR5619
CCMO	NL55748.042.15
OMON	NL-OMON43412

Study results