Motor cortical control of antagonist muscle function in aging

No registrations found.

Ethical review	Not applicable
Status	Pending
Health condition type	-
Study type	Observational non invasive

Summary

ID

NL-OMON23489

Source
NTR

Health condition

Elderly

Sponsors and support

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

Intervention

Outcome measures

Primary outcome

The amount of coactivation during a rapid flexion of the wrist after hearing an auditory tone

Secondary outcome

The corticospinal excitability indexed by the size of the motor evoked potentials (MEPs) produced by transcranial magnetic stimulation (TMS)

Study description

Study objective

Motor cortical control of antagonist muscle function changes with age

Study design

One moment of measurement

Intervention

Rapidly flexing the wrist to a position of 20 degrees after hearing an auditory tone

Contacts

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Eligibility criteria

Inclusion criteria

Healthy younger adults aged 18 - 30 years and healthy older adults aged 65 years and older, both male and female gender, right handed based on the Edinburgh Handedness Inventory.

Exclusion criteria

Fracture in the upper extremity over the past year, neurological disorders, pregnancy, muscle or joint disorders, cardiovascular diseases, medicine known to affect nerve conduction, Epilepsy, Pacemaker, metal in the brain/skull.

Study design

Design

Study type:	Observational non invasive
Intervention model:	Parallel
Allocation:	Non-randomized controlled trial
Masking:	Single blinded (masking used)
Control:	N/A , unknown

Recruitment

NL

Recruitment status:	Pending
Start date (anticipated):	01-09-2015
Enrollment:	28
Type:	Anticipated

Ethics review

Not applicable

Application type:	Not applicable

Study registrations

Followed up by the following (possibly more current) registration

ID: 41777
Bron: ToetsingOnline
Titel:

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

No registrations found.

In other registers

Register	ID
NTR-new	NL5222
NTR-old	NTR5371
CCMO	NL52432.042.15
OMON	NL-OMON41777

Study results