Gaze tracking during upper extremity movements in stroke

No registrations found.

Ethical review	Positive opinion
Status	Recruiting
Health condition type	-
Study type	Interventional

Summary

ID

NL-OMON24214

Source
Nationaal Trial Register

Health condition

Stroke, upper extremity function

Sponsors and support

Primary sponsor: Roessingh Research and Development
Source(s) of monetary or material Support: H2020, grant agreement number 644000

Intervention

Outcome measures

Primary outcome

Main study parameters represent event-related gaze behaviour during the movement tasks, by calculating proportions of task duration with gaze focused on task-relevant objects (TRO gaze), on task-relevant body parts (TRB gaze), and on task-irrelevant objects (TIO gaze) (expressed in percentages of total task duration).

Secondary outcome

- Movement time

- Number of saccades

- Reaction time

- Fugl meyer upper extremity part

- Score on neglect (SCT) test

Study description

Background summary

Objective: The primary objective is to gain insight into gaze behaviour of stroke survivors during active execution of upper extremity movements.

Study design: The current study is an observational study with one measurement session per participant.

Study population: In total, 20 stroke patients and 10 healthy subjects, with an age between 18-80 years old, will participate in this study.

Intervention (if applicable): Not applicable.

Main study parameters/endpoints: Main study parameters represent event-related gaze behaviour during the movement tasks, by calculating proportions of task duration with gaze focused on task-relevant objects (TRO gaze), on task-relevant body parts (TRB gaze), and on task-irrelevant objects (TIO gaze) (expressed in percentages of total task duration).

Study objective

-

Study design

The current study is an observational study with one measurement session per participant.

Intervention

GAze behavior is tracked during the following 3D tasks

Reach task

Reach and grasp of cylindrical object

Reach and replace of cylindrical object

Bimanual drinking task

Contacts

Public

Roessingh Research and Development
Postbus 310

A.L. van Ommeren
Enschede 7500 AH
The Netherlands

Scientific

Roessingh Research and Development
Postbus 310

A.L. van Ommeren
Enschede 7500 AH
The Netherlands

Eligibility criteria

Inclusion criteria

Patients should be clinically diagnosed with unilateral, either right or left sided, middle cerebral artery stroke (ischemic or hemorrhagic)

Between 18-80 years of age

Time since onset of disease is at least one week

Sufficient cognitive status to understand two-step instructions

Patients should be able to lift their affected arm on the table and to grasp a cylindrical object while seated in a chair

Provide written informed consent

Healthy subjects

Between 18-80 years of age

Sufficient cognitive status to understand two-step instructions

Provide written informed consent

Exclusion criteria

People with severe acute pain of the (affected) arm and hand

People having insufficient knowledge of the Dutch language to understand the purpose or methods of the study

People with visual deficits; either ophthalmic (e.g. wearing glasses or lenses stronger than -5 or + 3) or cerebral

Severe contractures limiting passive range of motion in the UE

Co-morbidities limiting functional use of the arm and hand

Study design

Design

Study type:	Interventional
Intervention model:	Other
Masking:	Open (masking not used)
Control:	N/A , unknown

Recruitment

NL

Recruitment status:	Recruiting
Start date (anticipated):	26-04-2017

Enrollment:	30
Type:	Anticipated

Ethics review

Positive opinion
Date: 09-10-2017
Application type: First submission

Study registrations

Followed up by the following (possibly more current) registration

ID: 45658
Bron: ToetsingOnline
Titel:

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

No registrations found.

In other registers

Register	ID
NTR-new	NL6563
NTR-old	NTR6744
CCMO	NL59420.044.16
OMON	NL-OMON45658

Study results

Summary results
-