The use of the Dutch version of the Movement Specific Reinvestment Scale (MSRS) in rehabilitation

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Ethical review	Approved WMO
Status	Recruitment stopped
Health condition type	Central nervous system vascular disorders
Study type	Observational non invasive

Summary

ID

NL-OMON33813

Source
ToetsingOnline

Brief title
The Movement Specific Reinvestment Scale in rehabilitation

Condition

- Central nervous system vascular disorders

Synonym
CVA, Stroke

Research involving
Human

Sponsors and support

Primary sponsor: Hoensbroek Revalidatiecentrum (HRC)
Source(s) of monetary or material Support: Ministerie van OC&W

Intervention

Keyword: Movement Specific Reinvestment Scale, Reinvestment, Stroke

Outcome measures

Primary outcome

Measuring points in part 1 are at entry in the study and three weeks later. In Part 2 measuring points are at entry (baseline- T0) and after 3, 6 and 9 weeks. In both parts of the study the following characteristics will be collected: age, gender, brain lesion site, co-morbidities or complications. The primary outcome is the *Movement Specific Reinvestment Scale*.

Additional test (amendment): Degree of which a participants performs worse during the stressfull situation (compared to the trainings situation). This will be operationalised by: numbers of falls/stumblings, number of times touching an obstacle,
times of freezing (the times that the patient stops walking will be counted).

Secondary outcome

As additional measurements on functional outcome are used: the Rivermead Mobility Index (part 1 and 2) and the Barthel Index (part2). To control for confounding, in part 2 the Cognitive Log and the Hospital Anxiety and Depression Scale are used.

Addiotional test (amendment):
Both the patients and independent rater will be asked to judge the quality of

the walking on a 10 point Likert scale.

Study description

Background summary

Movement disruption and reinvestment have been investigated in athletes and in the healthy population. It has been shown that the *Reinvestment Scale* (RS) could possibly predict whether someone will fail when performing movements under (psychological) pressure.
The adapted version of the RS, the *Movement Specific Reinvestment Scale* (MSRS) has been developed for the use in rehabilitation and has recently been used in two explorative studies in patients with Parkinson disease and Stroke. The results were promising but more research, especially concerning the quality of this scale in the context of rehabilitation, is still indicated.

Study objective

The aim of this study is twofold. Firstly, to investigate the test-retest reliability of the MSRS in stroke patients. And secondly, to study changes in MSRS score overtime in stroke patients in order to examine: a) the predictive value of the MSRS in stroke b) whether the score of the MSRS changes over time and c) whether the score of the MSRS correlates with with other mobility related factorsand the level of independence?

Amendment: Is the MSRS able to predict which participants will perform worse under stressfull circumstances?

Study design

In the first part of the study a test retest design will be used. The second part will be based on a longitudinal cohort study design.

Study burden and risks

As there are no invasive interventions, nor any untested experimental measurements used, no significant additional risk to the assessment of therapy of the participants is anticipated.

Contacts

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Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age
Adults (18-64 years)
Elderly (65 years and older)

Inclusion criteria

Participants have to meet following selection criteria:
a) clinically diagnosed stroke,
b) Age > 18 years
c) Sufficient cognitive level and communication skills to fill in the questionnaires (support in writing or reading is allowed) ;Addition for amendment :
Only patients who are able to walk independently (Functional Ambulation Category >= 3) will be asked to participate in the additional test.

Exclusion criteria

Sever additional impairments prior to stroke

Study design

Design

Study type: Observational non invasive

Masking:	Open (masking not used)
Control:	Uncontrolled
Primary purpose:	Diagnostic

Recruitment

NL

Recruitment status:	Recruitment stopped
Start date (anticipated):	01-01-2009
Enrollment:	130
Type:	Anticipated

Ethics review

Approved WMO

Date:	24-03-2009
Application type:	First submission
Review commission:	METC SRL Stichting Revalidatie Limburg (Hoensbroek)

Approved WMO

Date:	01-02-2010
Application type:	Amendment
Review commission:	METC SRL Stichting Revalidatie Limburg (Hoensbroek)

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

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

No registrations found.

In other registers

Register	ID
CCMO	NL24807.022.08