Walking fatigue in persons with Multiple Sclerosis

No registrations found.

Ethical review	Positive opinion
Status	Recruiting
Health condition type	-
Study type	Observational non invasive

Summary

ID

NL-OMON26405

Source
Nationaal Trial Register

Brief title
MS walking fatigue

Health condition

Multiple Sclerosis

Sponsors and support

Primary sponsor: Special research fund by Maastricht University Medical Center+ and Hasselt University
Source(s) of monetary or material Support: /

Intervention

Outcome measures

Primary outcome

Walking fatigability

Secondary outcome

Walking economy

Study description

Background summary

Walking capacity is reported as one of the most important bodily functions for maintaining a high quality of life in persons with Multiple Sclerosis (pwMS). It has been shown that limitations in walking capacity in pwMS are related to fatigue, which subsequently leads to a decreased daily physical activity. This may impact physical fitness and ultimately lead to a decreased social role participation. However, it is not well known whether this limitation in walking capacity, measured during walking is related to less energy efficient walking and thus a poor walking economy. It is proposed that assessing the relation between a decline in walking capacity (walking fatigability), walking economy and walking characteristics (e.g. spatiotemporal parameters, kinematic and kinetic profiles, muscle coordination patterns) can lead to a better understanding of the determinants of walking fatigue in pwMS. In addition, exploring its impact on daily activities and social participation will aid rehabilitation of pwMS .

Study objective

It is hypothesized that persons with MS have a higher energetic cost of walking due to more variability in gait parameters.

Study design

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Contacts

Public
Maastricht University
Kyra Theunissen

0433881493
Scientific
Maastricht University
Kyra Theunissen

0433881493

Eligibility criteria

Inclusion criteria

- Diagnosed MS by neurologist
- Expanded Disability Status Scale 1- 5.5
- Able to walk without walking aid and orthoses
- Age between 18-65 years

Exclusion criteria

- Recent (3months) relapse
- Recent (12 months) arthroplasty or fracture
- Comorbidities affecting functioning (such as diabetes mellitus, malignancies)
- Contra-indication for physical activity or exertion tests
- Botulinum treatment in lower extremity <6 months before measurement

Study design

Design

Study type:	Observational non invasive
Intervention model:	Other
Allocation:	N/A: single arm study
Masking:	Open (masking not used)
Control:	N/A , unknown

Recruitment

NL

Recruitment status:	Recruiting
Start date (anticipated):	01-02-2019
Enrollment:	32
Type:	Anticipated

IPD sharing statement

Plan to share IPD: Undecided

Ethics review

Positive opinion
Date: 01-08-2019
Application type: First submission

Study registrations

Followed up by the following (possibly more current) registration

ID: 49047
Bron: ToetsingOnline
Titel:

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

No registrations found.

In other registers

Register	ID
NTR-new	NL7921
CCMO	NL67805.068.18
OMON	NL-OMON49047

Study results