Long-term prognosis of functional outcome in Multiple Sclerosis: Changes in walking ability and the relationship with gait parameters in patients having MS for 9 years.

Published: 20-05-2008 Last updated: 11-05-2024

Aim: 1) To continue studying (the determinants of) the decline in functioning in the domains neurological deficits, physical functioning, mental health, social functioning and general health in the first 9 years after the diagnosis, and 2) to study...

Ethical review	Approved WMO
Status	Pending
Health condition type	Demyelinating disorders
Study type	Observational non invasive

Summary

ID

NL-OMON32032

Source ToetsingOnline

Brief title Functional Prognosis in MS: changes in walking ability (FUPRO-MS III)

Condition

Demyelinating disorders

Synonym MS, Multiple Sclerosis

Research involving Human

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Sponsors and support

Primary sponsor: Vrije Universiteit Medisch Centrum Source(s) of monetary or material Support: St MS Research en St Nuts Ohra

Intervention

Keyword: Functional prognosis, Gait, Longitudinal Cohort Study, Multiple Sclerosis

Outcome measures

Primary outcome

In addition to the core set of functional outcome measures and HR-QoL measures

of the FuPro-study (needed to answer research question 1) instrumental measures

and clinical performance tests of gait, energy consumption, muscle strength,

muscle coordination, spasticity, somatosensory signs, visual symptoms, and

postural stability will be performed.

Secondary outcome

not applicable

Study description

Background summary

In the course of multiple sclerosis a substantial part of the patients will experience a decline in several domains of functioning. In the first 5.5 years, we observed a steady decline in mobility, which is related to impairments of the pyramidal, cerebellar and sensory tract, and energy levels.

Study objective

Aim: 1) To continue studying (the determinants of) the decline in functioning in the domains neurological deficits, physical functioning, mental health, social functioning and general health in the first 9 years after the diagnosis, and 2) to study the relationships between neurological and physical impairments, gait characteristics, and walking ability. Research Questions: 1. What is the longitudinal course of functioning in the domains neurological deficits, physical functioning, mental health, social functioning and general health in MS patients during the first 9 years after definite diagnosis?

2. Which gait characteristics and muscle coordination patterns are present 9 years after definite diagnosis of MS?

3. How do neurological and physical impairments (pyramidal, cerebellar and sensory tract, and energy levels) relate to these gait characteristics and muscle coordination patterns?

4. How do these gait characteristics and coordination patterns relate to the walking ability?

5. Which compensatory or adaptive strategies do (subgroups of) patients with MS use to reduce gait limitations and improve walking ability?

Study design

1) Longitudinal study: extending the follow-up of an inception cohort of 156 patients with MS (FuPro-study, follow-up until 5.5 years after diagnosis) with a measurement nine years after diagnosis. 2) Cross-sectional study: in-depth analyses of neurological and physical impairments, analysis of gait characteristics, and their relationships with walking ability.

Study burden and risks

Total burden of the measurements will be 6 hours (3 parts of 2 hours). Risks will be minimal

Contacts

Public

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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 of the FuPRO-MS I study. Patients with recent MS were recruited in 1998-2000. This study concerns the 9-year follow-up measures of the inception cohort.

Exclusion criteria

not applicable

Study design

Design

Study type: Observational non invasive		
Masking:	Open (masking not used)	
Control:	Uncontrolled	
Primary purpose:	Other	

Recruitment

NL	
Recruitment status:	Pending
Start date (anticipated):	01-11-2007
Enrollment:	156

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Type:

Anticipated

Ethics review

Approved WMO Application type: Review commission:

First submission METC Amsterdam UMC

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 CCMO ID NL20264.029.07