

Functional power training in young children with cerebral palsy

No registrations found.

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

Summary

ID

NL-OMON21727

Source

Nationaal Trial Register

Brief title

MegaPower training

Health condition

power training, muscle strength training, functional training, cerebral palsy, walking ability, sprint performance, loopvaardigheid, spastische kind, krachttraining.

Sponsors and support

Primary sponsor: Reade, centrum voor revalidatie en reumatologie
VU medisch centrum

Source(s) of monetary or material Support: DNS, Duyvensz Nagel Stichting
WCF, Wetenschappelijk College Fysiotherapie
Stichting Mitialto

Intervention

Outcome measures

Primary outcome

Sprint performance and Problem Score of Treatment goals reported by parents and/or

children

Secondary outcome

Walking ability, Mobility, Muscle Strength

Study description

Study objective

Walking ability and plantar flexor strength of young children with CP improve more after functional power training compared to usual care.

Study design

measurements:

- 1) 14 weeks before training starts
- 2) start of 14 weeks intervention period
- 3) end of 14 weeks intervention period
- 4) end of 14 weeks follow up period

Intervention

Intensive high velocity muscle training. The training period is 14 weeks, 3 times a week. Each training session last 60 minutes. The training has three elements; 1. warming-up (10 min), 2.three to four power exercises (35 min), 3. end game (15 min).

Contacts

Public

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Eligibility criteria

Inclusion criteria

- Ambulant children (GMFCS I and II) with a predominantly spastic cerebral palsy
- aged 4 - 10 years,
- where parents and/or the children have a treatment question involving the walking ability (such as being able to walk or run faster).
- The children should be able to understand -and to follow instructions.

Exclusion criteria

Exclusion criteria are;

- 1) treatment with botulinum toxin A in lower limb and/or serial casting of lower limb less than 6 months before the start of the functional power training,
- 2) selective dorsal rhizotomie treatment less than a year before the functional power training starts,
- 3) walking is not (yet) the preferred way of the children in their mobility

Study design

Design

Study type:	Interventional
Intervention model:	Crossover
Allocation:	Non controlled trial
Masking:	Open (masking not used)
Control:	N/A , unknown

Recruitment

NL	
Recruitment status:	Recruiting
Start date (anticipated):	13-11-2013
Enrollment:	20
Type:	Anticipated

Ethics review

Positive opinion	
Date:	07-04-2015
Application type:	First submission

Study registrations

Followed up by the following (possibly more current) registration

ID: 40459
Bron: ToetsingOnline
Titel:

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

No registrations found.

In other registers

Register	ID
NTR-new	NL5058
NTR-old	NTR5189
CCMO	NL46189.048.13
OMON	NL-OMON40459

Study results

Summary results

Feasibility and test-retest reliability of measuring lower limb strength in young children with cerebral palsy.

Van Vulpen LF, De Groot S, Becher JG, De Wolf GS, Dallmeijer AJ.
Eur J Phys Rehabil Med. 2013 Dec;49(6):803-13. Epub 2013 Oct 9.