

# Development of a Test to Measure the Quality of Motor Activities of Daily Living in Children with DCD

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The development of a valid and reliable test intended to measure functional motor activities in daily life of children with DCD.

<b>Ethical review</b>	Approved WMO
<b>Status</b>	Pending
<b>Health condition type</b>	Movement disorders (incl parkinsonism)
<b>Study type</b>	Observational non invasive

## Summary

### ID

NL-OMON33789

### Source

ToetsingOnline

### Brief title

Development of the DCDDaily

### Condition

- Movement disorders (incl parkinsonism)

### Synonym

clumsiness, dyspraxia

### Research involving

Human

### Sponsors and support

**Primary sponsor:** Universitair Medisch Centrum Groningen

**Source(s) of monetary or material Support:** Ministerie van OC&W

## Intervention

**Keyword:** Activities of Daily Living, Developmental Coordination Disorder, Functional Test

## Outcome measures

### Primary outcome

Scores on the newly developed test.

### Secondary outcome

not applicable

## Study description

### Background summary

Children with Developmental Coordination Disorder (DCD) experience impairments motor difficulties at home and at school, without a general medical condition. Motor difficulties in daily life are important in the DSM criteria for DCD, and often form the main reason for referral to therapy. However, at the moment, no test exists that measures functional motor activities of daily living in children.

### Study objective

The development of a valid and reliable test intended to measure functional motor activities in daily life of children with DCD.

### Study design

The test will be developed based on a literature study (content validity) and based on opinions of experts (face validity). A pilot version of the test will be assessed to 3 children, to assess usability of the test. After that, the test will be assessed to a group of children with DCD and a group typically developing children. The performances of the children in the pilot test will be compared to their performances on de Movement-ABC, the golden standard in motor assessments, and to two commonly used and relevant questionnaires, the DCDQ and the GMO (construct validity). Further, the test-retest reliability and inter observer agreement will be tested. Finally, a factor analysis will show the factor structure. Based on these results, the definite version of the test will be constructed.

## Study burden and risks

The children diagnosed with DCD are already in therapy. The M-ABC, the DCDQ and the GMO are already assessed. The activities of this test are normally practiced during therapy, although they are assessed systematically and standardised during the test. Participation in this study does not change the content of a normal therapy, no extra burdens are related to participation. For the typically developing children, participation will mean extra effort. However, for the development of the test, this group is necessary because the test needs to differentiate between children with and without DCD. The extra effort will be small, it takes only one hour. To perform the test, for both groups, means to perform activities of daily living that are known and not new. Participation in this study will therefore not be an extra risk, compared to a normal day.

## Contacts

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### Scientific

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## Trial sites

### Listed location countries

Netherlands

## Eligibility criteria

### Age

Children (2-11 years)

## Inclusion criteria

5-8 years old  
diagnosed with DCD

## Exclusion criteria

No relevant comorbidities  
No pathological disease that hinders functional motor activities

## Study design

### Design

**Study type:** Observational non invasive

Masking: Open (masking not used)

Control: Uncontrolled

Primary purpose: Diagnostic

### Recruitment

NL

Recruitment status: Pending

Start date (anticipated): 01-09-2007

Enrollment: 500

Type: Anticipated

## Ethics review

Approved WMO

Application type: First submission

Review commission: METC Universitair Medisch Centrum Groningen (Groningen)

## 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**

<b>Register</b>	<b>ID</b>
CCMO	NL16920.042.07