

Gaming as Gateway to Reading INnovation

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Ethische beoordeling	Positief advies
Status	Werving gestart
Type aandoening	-
Onderzoekstype	Interventie onderzoek

Samenvatting

ID

NL-OMON27708

Bron

NTR

Verkorte titel

GAGARIN

Aandoening

Reading disabilities, dyslexia

Ondersteuning

Primaire sponsor: Rudolf Berlin Center, Amsterdam, the Netherlands

Overige ondersteuning: Regio Gooi en Vechtstreek - Innovatiebudget Jeugd

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

The primary outcome of this study is Word Reading Fluency, as measured by:

Toelichting onderzoek

Achtergrond van het onderzoek

The main goal of the present study is to improve reading fluency in children with reading disabilities. We will therefore deliver a game-based intervention focussed on developing automatic letter-speech sound integration to children with reading disabilities, in order to attack their dysfluent reading.

The study is a single-blind randomised controlled trial comparing an intervention addressing letter-speech sound integration to a waiting list control group. The study consists of two trials:

- (1) Intervention for children with reading disabilities in grade 2.
- (2) Early intervention for children at risk of reading disabilities in grade 1.

Children with (a risk of) reading disabilities are randomly assigned (1 : 1) to either an immediate intervention group or a waiting-list control group by a method of simple randomisation. Participants will be randomised using a computerised random number generator. Subjects will be randomized after stratification for school. The target sample size is $n = 120$ children at risk of reading disabilities in grade 1, and $n = 120$ children with reading disabilities in grade 2

Children in the intervention condition will receive intervention during a 14 week period. These children will be provided with three intervention sessions a week for 20 minutes per session. Children allocated to the waiting-list control condition will receive the intervention program after the waiting period had elapsed.

Behavioural measures of reading, and letter-speech sound mapping are measured at baseline and at the end of the 14 week (intervention) period for both intervention group and control group.

Doel van het onderzoek

The main objective of study is to determine whether a game-based intervention focussed on intensively training automation of letter-speech-sound associations can improve reading fluency in children with reading disabilities (grade 2) and in children at risk of reading disabilities (grade 1).

Onderzoeksopzet

Pretest

Posttest

Onderzoeksproduct en/of interventie

The intervention tested in this study is a cognitive, (serious) game-based intervention focused on the training of letter-speech sound associations. The goal of the intervention is to improve reading fluency in children with reading disabilities. In a series of experimental, proof-of-concept studies we previously showed that the guiding principle of using gaming techniques to intensively train letter-speech sound associations can be effective in improving reading fluency.

Contactpersonen

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

Inclusion Criteria for children with reading disabilities (grade 2)

- I. Suffering from specific and persistent problems with reading at school
- II. Percentile score \leq 25% on a standard reading test (Drie-minuten-test (DMT; three-minute-test))
- III. In grade 2 of primary education
- IV. Native Dutch speaker

Inclusion Criteria for children at risk for reading disabilities (grade 1)

- I. Percentile score \leq 25% on a letter knowledge test (Screeningsinstrument Beginnende Geletterdheid, CITO, 2009)
- II. In grade 1 of primary education
- III. Native Dutch speaker

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

Exclusion Criteria (for all participants)

- I. Diagnosis of AD(H)D, autism spectrum disorder, (specific) language impairment
- II. Neurological impairment
- III. General cognitive impairment
- IV. Uncorrected sight problems

Onderzoeksopzet

Opzet

Type:	Interventie onderzoek
Onderzoeksmodel:	Parallel
Toewijzing:	Gerandomiseerd
Blindering:	Enkelblind
Controle:	Geneesmiddel

Deelname

Nederland	
Status:	Werving gestart
(Verwachte) startdatum:	23-09-2016
Aantal proefpersonen:	240
Type:	Verwachte startdatum

Ethische beoordeling

Positief advies	
Datum:	12-09-2016
Soort:	Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

Geen registraties gevonden.

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL5898
NTR-old	NTR6086
Ander register	: Ethical Committee nr. 2016-DP-7127

Resultaten