

Working memory training in children with neuropsychiatric disorders and mild to borderline intellectual disabilities

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-Children who receive the more prolonged working memory training with personalized coaching have less behavioural problems (VISK, AVL, BRIEF) after the training compared to children who receive the more prolonged working memory training without...

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

Samenvatting

ID

NL-OMON21467

Bron

NTR

Verkorte titel

WMT in children with neuropsychiatric disorders and MBID

Aandoening

- mild intellectual functioning
- borderline intellectual functioning
- neuropsychiatric disorders: adhd and asd
- behavioral problems
- neurocognitive functioning
- school achievement

Ondersteuning

Primaire sponsor: Karakter

Overige ondersteuning: Karakter and Fonds Psychische Gezondheid; Antonia Wilhelmina Fonds

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

The primary objective is to investigate the effect of a less intensive but prolonged Cogmed© RM working memory training with active personalized coaching and feedback in children with MBID and neuropsychiatric disorders, compared to a less intensive but prolonged RM Cogmed © working memory training without personalized (only general non-personalized coaching) coaching and feedback, on neurocognitive functioning measured with the span-board task.

Toelichting onderzoek

Achtergrond van het onderzoek

Working memory training (WMT) has been shown to offer therapeutic benefits to both patients with ADHD and patients with Mild to Borderline Intellectual Disabilities (MBID;60

Doel van het onderzoek

- Children who receive the more prolonged working memory training with personalized coaching have less behavioural problems (VISK, AVL, BRIEF) after the training compared to children who receive the more prolonged working memory training without personalized coaching.
- Children who receive the more prolonged working memory training with personalized coaching show more improvement in neurocognitive functioning (working memory: spatial span, backward digit recall, listening recall; Executive functioning: Sustained Attention Dots, Go-Nogo; Transfer effect: begrip van instructie) after the training compared to children who receive the more prolonged working memory training without personalized coaching.
- Children who receive the more prolonged working memory training with personalized coaching will have better scores in school achievement (Arithmetic: Tempo Toets Rekenen; reading: Brus 1 minuut) after the training compared to children who receive the more prolonged working memory training without personalized coaching.

Onderzoeksopzet

The primary outcome and secondary outcomes will be measured three times; once before the working memory training, one week after completing the working memory training and six months after completing the working memory training. The timepoints are equal for participants in the intervention and placebo condition.

Onderzoeksproduct en/of interventie

In a double blind randomized controlled trial, two groups with 25 children will train 8 weeks, 4 days a week for an average of 35 minutes (5 exercises) each day. Parents, children and teachers will be blind for the allocation to one of the two groups, i.e. active personalized coaching and feedback or no personalized (only general non-personalized coaching) coaching. Before and after training, all children will undergo a behavioral and neurocognitive assessment including academic achievement measures (pre- en post- assessment). In the week after the last session, the post-assessment will be done and an evaluation of the training will take place. Six months after the last training session there will be a follow-up.

a) One group will be treated with a less intensive but more prolonged version of the Cogmed © WMT, version R/M and will receive active personalized coaching and feedback each week based on their actual performance during the training.

b) One group will be treated with a less intensive but more prolonged version of the Cogmed © WMT, version R/M. They will receive the same amount of coaching time, but without personalized (only general non-personalized coaching) coaching.

Cogmed © WMT has been developed by Cogmed Cognitive Medical Systems AB (Stockholm, Sweden). Pearson is the official publisher for the Netherlands for Cogmed. BeterBrein provides the educational program to become a licensed Cogmed coach.

Contactpersonen

Publiek

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Wetenschappelijk

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

1. Children aged between 10 years/0 months and 13 years/11 months, known in psychiatric health care and/or special education.
2. Neuropsychiatric disorders (ADHD, ASD, or a combination of those two), classified by the DSM-IV/ DSM-5 (Diagnostic and Statistical Manual of Mental Disorders, 2000, 2013).
3. IQ score between 60 and 85.
4. Access to a PC with Windows Vista or Windows XP with internet connection and speakers at school

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

1. Treatment at an inpatient or day treatment clinic.
2. Regular use of other medication than for ADHD or ASD
3. If medication for ADHD/ASD is used and 'room for improvement for ADHD symptoms' is absent
3. Diagnosis of one or more of the following comorbid psychiatric disorders (checked by DISC-IV):
 - Major depression
 - Bipolar disorder
 - Psychotic disorder
 - Conduct disorder
 - Anxiety disorder
 - Neurological disorders (e.g. epilepsy) in the recent two years.

- Cardiovascular disease currently or in the past.
- Serious motor and/or perceptual handicap.
- Participation in another clinical trial simultaneously.
- Insufficient motivation to follow the training.
- Medical illness which needs medical treatment.

Onderzoeksopzet

Opzet

Type:	Interventie onderzoek
Onderzoeksmodel:	Parallel
Toewijzing:	Gerandomiseerd
Blinding:	Dubbelblind
Controle:	Placebo

Deelname

Nederland	
Status:	Werving nog niet gestart
(Verwachte) startdatum:	01-01-2016
Aantal proefpersonen:	50
Type:	Verwachte startdatum

Ethische beoordeling

Positief advies	
Datum:	09-06-2015
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	NL5091
NTR-old	NTR5223
Ander register	NL52647.091.15 : 2015-1618

Resultaten