

Physical activity and cognitive control in multiproblem young adults

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It is hypothesized that physical activity will have a positive (dose-response) effect on cognitive control, measured as error processing, response inhibition and interference effect.

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

Samenvatting

ID

NL-OMON20859

Bron

Nationaal Trial Register

Aandoening

multiproblem young adults, cognitive control (i.e., response inhibition, error processing, and cognitive interference).

Ondersteuning

Primaire sponsor: Department of Child and Adolescent Psychiatry VUmc Medical Center Amsterdam

Overige ondersteuning: Reclassering Nederland

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

Primary study parameters/outcome of the study: response inhibition, error processing, and interference (i.e., as measured with behavioral performance on the Go/no-go, Flanker, and Stroop), self-reported physical activity (i.e., as measured with the International Physical Activity Questionnaire), and self-reported delinquency (i.e., as measured with the WODC Self-

Toelichting onderzoek

Achtergrond van het onderzoek

A randomized control trial design with repeated measures will be used to examine the association between physical activity and cognitive control in young adults facing a plethora of problems, including frequent substance use, a history of delinquency, no daytime activities (e.g., no work or education), and behavioral and psychological problems. They will participate in either a light-active or moderate-active physical activity program for three months. It is hypothesized that physical activity will have a positive (dose-response) effect on cognitive control, measured as error processing, response inhibition and interference effect.

Doel van het onderzoek

It is hypothesized that physical activity will have a positive (dose-response) effect on cognitive control, measured as error processing, response inhibition and interference effect.

Onderzoeksopzet

T0 (i.e., baseline)

T1 (i.e., 6 weeks after T0)

T2 (i.e., 3 months after T0)

Onderzoeksproduct en/of interventie

All participants at De Nieuwe Kans will participate in a mandatory sports program three times a week independent of participation in the study. Participation in the study (i.e., neuropsychological tests and questionnaires) is not mandatory. Cognitive control (reponse inhibition, error processing, and cognitive interference) will be assessed by behavioral performance on three neuropsychological tasks. In addition, multiple questionnaires will be used to assess other primary and secondary outcomes.

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Wetenschappelijk

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

Multiproblem young adults (18-27, all men) who participate in the day treatment at De Nieuwe Kans and are sufficient enough in the Dutch language to understand tests and instruction.

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

Indication of severe psychopathology (e.g., acute psychosis, severe mood disorder, as assessed by a physician) and color blindness.

Onderzoeksopzet

Opzet

Type: Interventie onderzoek

Onderzoeksmodel:	Parallel
Toewijzing:	Gerandomiseerd
Blinding:	Open / niet geblindeerd
Controle:	Actieve controle groep

Deelname

Nederland	
Status:	Werving gestopt
(Verwachte) startdatum:	01-04-2018
Aantal proefpersonen:	130
Type:	Werkelijke startdatum

Voornemen beschikbaar stellen Individuele Patiënten Data (IPD)

Wordt de data na het onderzoek gedeeld: Nog niet bepaald

Ethische beoordeling

Positief advies	
Datum:	27-08-2018
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	NL5050

Register

NTR-old

Ander register

ID

NTR7448

METc VUmc : 2018.409

Resultaten