Assessment of slow vision

Gepubliceerd: 22-06-2020 Laatst bijgewerkt: 15-05-2024

The speed acuity test can detect slow vision and thereby aid in the diagnosis of visual impairments.

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

Samenvatting

ID

NL-OMON21874

Bron
NTR

Verkorte titel
TBA

Aandoening

Cerebral visual impairment (CVI).
Other visual impairments.

Ondersteuning

Primaire sponsor: Koninklijke Visio. Radboudumc; Donders Institute.
Overige ondersteuning: Katholieke Stichting voor Blinden en Slechtzienden (KSBS)

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

Reaction time to stimulus in the speed acuity test

Toelichting onderzoek

Achtergrond van het onderzoek

At present, the definition of visual impairment is primarily based on distant visual acuity and visual field size. There are no nationally or internationally accepted tests to measure reaction time in acuity testing. Nevertheless, many children and adults, both normally sighted as visually impaired, complain about problems in coping with various daily activities due to slow vision.
The main goal of this project is to develop and validate a practical method to quantify "slow vision"; the time the brain needs to process visual information. We have therefore developed a new tool, the speed acuity test, to measure “perception time” during the assessment of visual acuity in healthy normally sighted children (Barsingerhorn et al., 2018). The current study will continue with the validation of this test in children with visual impairments.

Doel van het onderzoek

The speed acuity test can detect slow vision and thereby aid in the diagnosis of visual impairments.

Onderzoeksopzet

Data collection: 9 months. Data analysis: 3 months

Onderzoeksproduct en/of interventie

Participation in speed acuity test: participants have to press a button when a visual stimulus is presented on a computer screen.

Contactpersonen

Publiek

Donders institute for brain and cognition, Radboudumc, Nijmegen
Nouk Tanke

024-3668579

Wetenschappelijk

Donders institute for brain and cognition, Radboudumc, Nijmegen
Nouk Tanke

024-3668579

Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

Children aged 4 to 17 years, diagnosed with cerebral visual impairments (CVI) or other visual impairments, visiting Koninklijke Visio for regular rehabilitation, treatment, diagnosis or checkups.

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

Retinal pathology leading to a central scotoma, or diagnosis of additional mental impairments.
Severe mental retardation and/or motor problems leading to problems to understand or execute the test used in the study.

Onderzoeksopzet

Opzet

Type:	Interventie onderzoek
Onderzoeksmodel:	Anders
Toewijzing:	N.v.t. / één studie arm
Blindering:	Open / niet geblindeerd
Controle:	N.v.t. / onbekend

Deelname

Nederland

Status:	Werving gestart
(Verwachte) startdatum:	01-07-2020
Aantal proefpersonen:	50
Type:	Verwachte startdatum

Voornemen beschikbaar stellen Individuele Patiënten Data (IPD)

Wordt de data na het onderzoek gedeeld: Ja

Toelichting
The handling of personal data complies with the Dutch Personal Data Protection Act. Data of all the tests are stored in separate folders on data servers of our research group with automatically generated back-ups. The additional parameters and outcome parameters of the test and the location of the raw data will be stored within the validated data management system Castor EDC. It is necessary to be able to trace data back to an individual subject, therefore a subject identification code is used to link the data to the subject. The key to the code is safeguarded by the investigator and being stored at another location than the data. Data are handled confidentially by the principal investigator. After the end of the study all essential documents pertaining to the conduct of the study, including screening forms, patient files, originals of test result reports, correspondence, records of informed consent etc., will be archived by the investigator for a period of 15 years in accordance with the standard operating procedure of the Radboudumc.
Anonymized data will be published in a scientific journal.

Ethische beoordeling

Positief advies

Datum:	22-06-2020
Soort:	Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

ID: 47506
Bron: ToetsingOnline
Titel:

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL8723
CCMO	NL48708.091.14
OMON	NL-OMON47506

Resultaten

Samenvatting resultaten

Barsingerhorn, A.D., Boonstra, F.N. & Goossens, J. (2018a). Development of symbol discrimination speed in children with normal vision. Invest Ophthalmol Vis Sci, 59(10), 3973-3983.