LOOK-CHIL

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The acquired brain dysfunction after critical illness in the neonatal period has led to problems with the translation of visual information (e.g. determining the position and speed of the ball) into a goal-directed motor action (i.e. a coordinated...

Ethische beoordeling	Positief advies
Status	Anders
Type aandoening	-
Onderzoekstype	Observationeel onderzoek, zonder invasieve metingen

Samenvatting

ID

NL-OMON26945

Bron
NTR

Verkorte titel
Visuomotor integration after neonatal critical illnes

Aandoening

visuomotor integration
eye-hand coordination
neuropsychological assessment
neonatal

visueel-motorische integratie
oog-hand coordinatie
neuropsychologisch onderzoek
neonataal

Ondersteuning

Primaire sponsor: None
Overige ondersteuning: None

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

Parameters to quantify eye- and hand movements, such as the reaction time and velocity of eye-hand movements, and the
accuracy of both movements.

Toelichting onderzoek

Achtergrond van het onderzoek

Critically ill new-born babies can in the long term develop mental and/or motor problems, even when they are born at term.
Recently, it has been shown that when these children reach school age, they often have problems with ball skills. It seems
that these children have acquired some form of brain dysfunction due to critical illness, treatment in intensive care, and the
need for surgical interventions in the first phase of life. Based on currently available literature on long-term outcomes after
neonatal critical illness, our hypothesis is that the acquired brain dysfunction has led to problems with the translation of visual information (e.g. determining the position and speed of the ball) into a goal-directed motor action (i.e. a coordinated eye-hand movement for catching the ball). This process in the brain is termed visuomotor integration (VMI).
Do neonatal critically ill children aged 9-16 years have problems with visuomotor integration? If yes, which aspects of the visuomotor integration are affected and require a possible intervention?

Doel van het onderzoek

The acquired brain dysfunction after critical illness in the neonatal period has led to problems with the translation of visual information (e.g. determining the position and speed of the ball) into a goal-directed motor action (i.e. a coordinated eye-hand movement for catching the ball). This process in the brain is termed visuomotor integration (VMI).

Onderzoeksopzet

All measurements took place at one day.

Onderzoeksproduct en/of interventie

Observational research

Contactpersonen

Publiek

Dept of Rehabilitation and Physical Therapy
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The Netherlands

Wetenschappelijk

Dept of Rehabilitation and Physical Therapy
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Rotterdam 3015 GJ
The Netherlands

Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

Patient group:

Children aged 9 to 16 years that have had birth defects, including CDH or OA, and have been treated with or without ECMO.

Control group: children without birth defects and/or ECMO treatment

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

Serious neurological and/or visual co-morbidity.

Diagnosed with attention and/or concentration deficits such as AD(H)D

Onderzoeksopzet

Opzet

Type:	Observationeel onderzoek, zonder invasieve metingen
Onderzoeksmodel:	Parallel
Toewijzing:	N.v.t. / één studie arm
Blindering:	Open / niet geblindeerd
Controle:	N.v.t. / onbekend

Deelname

Nederland

Status:	Anders
(Verwachte) startdatum:	01-11-2018
Aantal proefpersonen:	70
Type:	Onbekend

Ethische beoordeling

Positief advies

Datum:	28-11-2018
Soort:	Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

ID: 46243
Bron: ToetsingOnline
Titel:

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL7419
NTR-old	NTR7652
CCMO	NL66820.078.18
OMON	NL-OMON46243

Resultaten