QEEG profiles in developmental disorders.

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1. QEEG markers can differentiate a developmental disorder, in this case ADHD and ASD, not only from a control group but also from each other; 2. QEEG markers are associated with the change in behavioural characteristics after administration of...

Ethische beoordeling	Niet van toepassing
Status	Werving nog niet gestart
Type aandoening	-
Onderzoekstype	Observationeel onderzoek, zonder invasieve metingen

Samenvatting

ID

NL-OMON24766

Bron
Nationaal Trial Register

Aandoening

developmental disorders; ADHD; ASD (Autism Spectrum Disorder); QEEG;brain

ontwikkelingsstoornissen; ADHD;ASS (Autisme Spectrum Stoornis); QEEG; hersenen.

Ondersteuning

Primaire sponsor: VieCuri Medical Centre, Venlo, The Netherlands
Overige ondersteuning: Requests for funding are still to be answered.

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

QEEG-signals of twenty electrodes, measured as the average contribution in microvolt of each frequency band on each electrode in four different conditions.

Toelichting onderzoek

Achtergrond van het onderzoek

The main aim of this study is to search for sensitive and specific QEEG markers to differentiate between children with a developmental disorder, in this case ADHD and ASD, and a control group and to differentiate between these two developmental disorders compared with each other. To do so, the patient groups and the control group are measured with the same equipment, software and measure settings. In this way QEEG outcome across groups can be compared in a reliable and valid way. By means of combining several (non)linear analysis methods QEEG markers for every pathology will be examined and developed and sensitivity and specificity measures of these markers will be calculated. Additionally the effect of medication (methylphenidate) in children with ADHD on the QEEG profile will be investigated.

Doel van het onderzoek

1. QEEG markers can differentiate a developmental disorder, in this case ADHD and ASD, not only from a control group but also from each other;

2. QEEG markers are associated with the change in behavioural characteristics after administration of methylphenidate in patients with ADHD.

Onderzoeksopzet

The total time of the measurements will be 45 tot 60 minutes for each child.

In boys with ADHD, who are taking methylphenidate, the second measurement without medication will be conducted within four weeks.

Onderzoeksproduct en/of interventie

QEEG measurements under four conditions:

1. Resting with eyes open;

2. Resting with eyes closed;

3. During an attention task;

4. During a motor task.

Parents will have to complete two questionnaires (SDQ and ADHD-Rating Scale). Boys with ADHD who are taking methylphenidate are measured twice: once on a day with medication and once on a day without methylphenidate.

Contactpersonen

Publiek

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Wetenschappelijk

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

1. Boys between 6 and 12 years with the diagnosis of ADHD or ASD conform DSM-IV criteria, with or without co-morbidities like Gilles de la Tourette, DCD or dyslexia;

2. Control group of healthy boys between 6 and 12 years.

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

1. Children with organic brain-defects, epilepsy, migraine, other psychiatric disorders than developmental disorders and children with influenza or fever;

2. Besides the boys in the control group should not have a developmental disorder.

Onderzoeksopzet

Opzet

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

Deelname

Nederland

Status:	Werving nog niet gestart
(Verwachte) startdatum:	01-09-2011
Aantal proefpersonen:	110
Type:	Verwachte startdatum

Ethische beoordeling

Niet van toepassing

Soort:	Niet van toepassing

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

ID: 36354
Bron: ToetsingOnline
Titel:

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL2710
NTR-old	NTR2848

Register	ID
CCMO	NL29647.068.10
ISRCTN	ISRCTN wordt niet meer aangevraagd.
OMON	NL-OMON36354

Resultaten

Samenvatting resultaten

`Effects of a restricted elimination diet on the behaviour of children with attention/deficit hyperactivity disorder )INCA study: a randomised controlled trial`
Lidy M.Pelser et al. The Lancet, Volume 377, Issue 9764, Pages 494/503, 5 February 2011.