

QEEG profiles in developmental disorders.

No registrations found.

Ethical review	Not applicable
Status	Pending
Health condition type	-
Study type	Observational non invasive

Summary

ID

NL-OMON24766

Source

Nationaal Trial Register

Health condition

developmental disorders; ADHD; ASD (Autism Spectrum Disorder); QEEG; brain
ontwikkelingsstoornissen; ADHD; ASS (Autisme Spectrum Stoornis); QEEG; hersenen.

Sponsors and support

Primary sponsor: VieCuri Medical Centre, Venlo, The Netherlands

Source(s) of monetary or material Support: Requests for funding are still to be answered.

Intervention

Outcome measures

Primary outcome

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

Secondary outcome

QEEG-signals in boys with ADHD, measured on a day with methylphenidate medication and on a day without, compared with their behavioural characteristics as measured by the ADHD-Rating Scale.

Study description

Background summary

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.

Study objective

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.

Study design

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.

Intervention

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.

Contacts

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Eligibility criteria

Inclusion criteria

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.

Exclusion criteria

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.

Study design

Design

Study type:	Observational non invasive
Intervention model:	Parallel
Allocation:	Non controlled trial
Masking:	Open (masking not used)
Control:	Active

Recruitment

NL	
Recruitment status:	Pending
Start date (anticipated):	01-09-2011
Enrollment:	110
Type:	Anticipated

Ethics review

Not applicable	
Application type:	Not applicable

Study registrations

Followed up by the following (possibly more current) registration

ID: 36354
Bron: ToetsingOnline
Titel:

Other (possibly less up-to-date) registrations in this register

No registrations found.

In other registers

Register	ID
NTR-new	NL2710
NTR-old	NTR2848
CCMO	NL29647.068.10
ISRCTN	ISRCTN wordt niet meer aangevraagd.
OMON	NL-OMON36354

Study results

Summary results

`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.