Are suspected auditory processing disorders in children between 8 and 12 years of age related to auditory and/or visual attention?

Published: 26-02-2014
Last updated: 24-04-2024

To investigate whether attention problems play a role in children, aged between 8 and 12 years, with suspected problems in auditory processing. And if so, whether these attention problems are specific to the auditory modality or also occur in the…

Ethical review	Approved WMO
Status	Recruitment stopped
Health condition type	Communication disorders and disturbances
Study type	Observational non invasive

Summary

ID

NL-OMON40489

Source
ToetsingOnline

Brief title
The understanding of speech by children aged 8, 9, 10 and 11 years

Condition

- Communication disorders and disturbances

Synonym
(suspected) auditory processing disorders / listening problems

Research involving
Human

Sponsors and support

Primary sponsor: Hanzehogeschool Groningen

Source(s) of monetary or material Support: Ministerie van OC&W

Intervention

Keyword: (suspected) Auditory Processing Disorders, Auditory Attention, Children, Visual Attention

Outcome measures

Primary outcome

The primary outcome is the difference between children with suspected ADP and

the control group on the selected visual and auditory attention tasks. The

primary outcome measure is the% correct score and response time on auditory and

visual attention tasks.

Secondary outcome

Not applicable.

Study description

Background summary

Some children encounter problems with listening and understanding speech in daily life although there is nothing wrong with peripheral hearing. After the ears have picked up the sound, something seems to go wrong with processing the speech into a meaningful message. Internationally the problems with processing the sounds are labeled as " Auditory Processing Disorders (APD) or listening problems .

The aim of this research proposal is to investigate the curent labeling of children with listening problems by using the label APD.
Pofessionals in the Netherlands use the Checklist Auditory Processing Disorders to screen children with listening complaints and to get a referral for further research at an Audiological Centre. The researchers have, based on the scientific literature, major doubts about the validity of the diagnosis of APD.

We assume that the diagnostic label APD in children with listening problems is incorrect, and that failure on the checklist and / or APD test battery does not indicate a specific auditory processing disorder, but an attention problem. The

hypothesis is that a reduced attention to auditory and / or visual stimulie has a relationship with the listening problems in children with suspected APD (children who are in the current practice referenced to an Audiological Centre as children with listening problems).

Study objective

To investigate whether attention problems play a role in children, aged between 8 and 12 years, with suspected problems in auditory processing. And if so, whether these attention problems are specific to the auditory modality or also occur in the visual modality.

Study design

Observational study: cas-control design

Study burden and risks

Children that participate in the study come along with a parent(s) / counselor to the Hanze Active Ageing Lab (HAAL) in Groningen. Parents have to fill in questionnaires during the home visit. The teacher of the child completes one questionnaire. Measurements are done at the HAAL and are deliverd by computer or paper in the form of games. The measurements will take about 2 1/2 hours (explanation and breaks included). To our knowledge participation in the study does not have any potential risk.

Contacts

Public
Hanzehogeschool Groningen

Eyssoniusplein 18
Groningen 9714 CE
NL
Scientific
Hanzehogeschool Groningen

Eyssoniusplein 18
Groningen 9714 CE
NL

Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age
Children (2-11 years)

Inclusion criteria

Age: 8;0 to 12;0 years
Monolingual: Dutch as mother language
Normal peripheral hearing (hearing loss of up to 20 dBHL on frequencies 500, 1000, 2000 and 4000 Hz)
Normal vision (Visual acuity > 0.80 (80%) without or with optimal correction (glasses))
Non verbal intelligence IQ*80
Language comprehension and production Q*80
Absence of additional and/or diagnosed developmental disorder, such as autism, ADHD, dyslexie, SLI etc. ;Children with suspected auditory processing disorder:
Presence of listeningproblems (clinical presentation) which would lead to a referral for a APD research. Suspicions on the basis of the experience of the parent(s) and/or the teacher.;Control group:
Typical developing children without listening problems.

Exclusion criteria

Bi- or multilingualism
Hearing problems
Serious visual problems (visually impaired or blind)
Cognitive problems (non-verbal IQ<80)
Language comprehension or production problems (Q<80)
Severe speech production problems
Presence of a diagnosed developmental disorder (SLI, ASS-diagnosis, ADHD, determined syndrome)

Study design

Design

Study type:	Observational non invasive
Intervention model:	Other
Allocation:	Non-randomized controlled trial
Masking:	Open (masking not used)
Control:	Active
Primary purpose:	Basic science

Recruitment

NL

Recruitment status:	Recruitment stopped
Start date (anticipated):	08-05-2014
Enrollment:	46
Type:	Actual

Ethics review

Approved WMO Date:	26-02-2014
Application type:	First submission
Review commission:	METC Universitair Medisch Centrum Groningen (Groningen)
Approved WMO Date:	08-09-2014
Application type:	Amendment
Review commission:	METC Universitair Medisch Centrum Groningen (Groningen)

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

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

No registrations found.

In other registers

Register	ID
CCMO	NL47283.042.13