

Factors associated with an underlying somatic cause in children with developmental and/or behavioral disability

No registrations found.

Ethical review	Positive opinion
Status	Recruitment stopped
Health condition type	-
Study type	Observational non invasive

Summary

ID

NL-OMON21511

Source

NTR

Health condition

developmental disability/delay, behavioral disability, mental retardation;chromosome testing;fragile X; metabolic testing; children

Sponsors and support

Primary sponsor: Atrium Medical Centre, location Heerlen, the Netherlands

Source(s) of monetary or material Support: Atrium Medical Centre, location Heerlen, the Netherlands

Intervention

Outcome measures

Primary outcome

Identify red flags that point in the direction of an underlying somatic cause that explains the developmental and/or behavioral disability in children

Secondary outcome

Yield of metabolic and genetic investigation children with mental retardation.

Study description

Background summary

INTRODUCTION Health in childhood can be improved by early detection and treatment of developmental disabilities to prevent further harm. In the Netherlands, early detection is achieved by use of the Van Wiechen surveillance measure in Primary-Health-Care. Besides, parents may apply to the Integrative preschool team (Integrale Vroeghulp)', a Dutch initiative to diagnose developmental and behavioral disability in a multidisciplinary team of psychologists, behavioral therapists and social workers. To prevent a delay in referral for pediatric diagnosis, there is need for an instrument to decide whether further investigation is indicated.

The aim of this study was to develop an instrument to identify those children that should undergo pediatric examination in order to prove or exclude a medical underlying disease.

METHODS We included around 200 individuals, aged 0-7 years. All were seen by the team and a pediatrician, who decided upon genetic, metabolic and neurological investigations.

Statistics Logistic regression was used to identify risk factors associated with an underlying somatic cause of developmental and/or behavioral problems. The ROC curve and its AUC were used to identify the optimum cut off point of continuous variables.

RESULTS Odds Ratio's and its significance will be shown for each potential risk factor.

CONCLUSION We will discuss which (combination of) risk factors in young children with developmental and/or behavioral problems are significant in order to predict a pediatric underlying cause. Furthermore, we will show the regression coefficient for each significant risk factor and the optimum cut off value for the continuous variables.

Study objective

We expect that when the developed checklist will be used in the diagnostic process of children with developmental and/or behavioral disability, the use of pediatric care will be more efficiently used. Over and underdiagnoses of a causal somatic disease will be prevented.

Study design

Retrospective cohort study: 4 months before analysis will be done

Intervention

Check database for:

- * Information about pregnancy and delivery, medical history, household composition etc
- * Outcome psychological tests: IQ test by SON, BSID or WPPSI
- * Outcome examination by a pediatrician: - - physical examination
- genetic investigations
- Metabolic investigations

Contacts

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Eligibility criteria

Inclusion criteria

0-7 years, applied to Integrative preschool team Zuid-Limburg between 1st of January and the 31st of December 2012

Exclusion criteria

Children that had been examined before in the same team setting

Study design

Design

Study type:	Observational non invasive
Intervention model:	Factorial
Allocation:	Non controlled trial
Masking:	Open (masking not used)
Control:	N/A , unknown

Recruitment

NL	
Recruitment status:	Recruitment stopped
Start date (anticipated):	05-05-2014
Enrollment:	200
Type:	Actual

Ethics review

Positive opinion	
Date:	29-04-2014
Application type:	First submission

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
NTR-new	NL4322
NTR-old	NTR4542
Other	: 14-N-13

Study results