

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

Gepubliceerd: 29-04-2014 Laatste bijgewerkt: 13-12-2022

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

Samenvatting

ID

NL-OMON21511

Bron

NTR

Aandoening

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

Ondersteuning

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

Overige ondersteuning: Atrium Medical Centre, location Heerlen, the Netherlands

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

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

Toelichting onderzoek

Achtergrond van het onderzoek

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.

Doel van het onderzoek

We expect that when the developed checklist will be used in de diagnostic proces 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.

Onderzoeksopzet

Retrospective cohort study: 4 months before analysis will be done

Onderzoeksproduct en/of interventie

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

Contactpersonen

Publiek

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Wetenschappelijk

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

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

the 31st of December 2012

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

Children that had been examined before in the same team setting

Onderzoeksopzet

Opzet

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

Deelname

Nederland	
Status:	Werving gestopt
(Verwachte) startdatum:	05-05-2014
Aantal proefpersonen:	200
Type:	Werkelijke startdatum

Ethische beoordeling

Positief advies	
Datum:	29-04-2014
Soort:	Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

Geen registraties gevonden.

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL4322
NTR-old	NTR4542
Ander register	: 14-N-13

Resultaten