Can vision screening in Dutch Youth Health Care (YHC) be improved by adding plusoptiX – a feasibility study

No registrations found.

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

Summary

ID

NL-OMON27072

Source
NTR

Health condition

lui oog amblyopie amblyopia

visusstoornis vision problem

scheelzien en verminderd zien

astigmatisme hypermetropie anisometropie myopie strabisme scheelzien

astigmatism hyperopia anisometropia myopia strabismus

Sponsors and support

Primary sponsor: TNO
Source(s) of monetary or material Support: ZonMw (main funder)
CordialMedical
PlusOptix (in kind: use of devices)

Intervention

Outcome measures

Primary outcome

sensitivity and specificity of standard vision screening as well as screening with the Plusoptix photoscreener

Secondary outcome

costs of standard vision screening as well as screening with the Plusoptix photoscreener

Study description

Background summary

Om bij kinderen oogafwijkingen op te sporen, zoals een lui oog, scheelzien en verminderd zien, voert de Jeugdgezondheidszorg (JGZ) een standaard oogonderzoek uit. Op de leeftijd van 3-6 jaar gebeurt dat oogonderzoek onder andere via een kaart met plaatjes of symbolen. Dit kost veel tijd en bij sommige kinderen is het oogonderzoek moeilijk uit te voeren. In dit project doen we het oogonderzoek bij de JGZ ook met een apparaat; de Plusoptix. Dit oogonderzoek lijkt op het maken van een foto van de ogen. Kinderen met een afwijkende test bij de JGZ krijgen in het ziekenhuis een uitgebreid oogonderzoek. We vergelijken de uitkomst van het standaard oogonderzoek en het oogonderzoek met de Plusoptix bij de JGZ met de uitkomst in het ziekenhuis. Ook vergelijken we de kosten van het standaard oogonderzoek en het onderzoek met de Plusoptix. Met de resultaten kan bepaald worden of het oogonderzoek bij de JGZ verbeterd kan worden wat betreft kwaliteit en kosten.

BACKGROUND AND RELEVANCE

The primary goal of vision screening in young children is the detection of amblyopia, also referred to as “lazy eye”, and risk factors for development of amblyopia requiring treatment. Child vision screening, a task of Preventive Youth Health Care (PYHC) in the Netherlands, reduces the prevalence of amblyopia. Current Dutch vision screening tests are time consuming, difficult to administer in young children and probably of low prognostic value. Instrument-based vision screening (e.g. plusoptiX) on the other hand is quick, and requires minimal cooperation of the child and could therefore be more cost-effective. To date, none have studied the validity using the plusoptiX in the Dutch population of children aged 3-6 years old, during regular PYHC practice, and compared study outcomes with current practices.

AIM

The aim of the current research project is to establish whether the current Dutch vision screening in children aged 3-6 years old in PYHC can be improved by using plusoptiX, with regard to costs and screening performance. A secondary aim is to optimize standard YHC referral criteria as well as plusoptiX referral criteria for the Dutch PYHC-setting.

Study objective

The primary aim of the current research project is to establish whether the current Dutch vision screening in children aged 3-6 years old in PYHC can be improved by using plusoptiX, with regard to costs and screening performance.

Study design

screening outcome is clear immediately after measurement. YHC return visit after 6-8 weeks if standard vision screening is doubtful and VOV geen bijzonderheden, or if standard vision screening could not be completed. If standard vision screening is "onvoldoende" and/or Plusoptix gives a refer, YHC refers to HMC for diagnostic follow-up.

Diagnostic follow-up at HMC asap after referral.

Intervention

Standard YHC vision screening as well as vision screening with the Plusoptix photoscreener

Contacts

Public
Kitty Van der Ploeg
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The Netherlands
Scientific
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[default]
The Netherlands

Eligibility criteria

Inclusion criteria

Children aged 3-6 years

Exclusion criteria

YHC study part:
no parental consent
nystagmus

wearing glasses

already patient in vision clinic

Clinical study part:

children already treated for vision problems, if the treatment is expected to affect the outcomes of the standard vision screening or Plusoptix

Study design

Design

Study type:	Observational non invasive
Intervention model:	Other
Allocation:	Non controlled trial
Masking:	Double blinded (masking used)
Control:	N/A , unknown

Recruitment

NL

Recruitment status:	Recruiting
Start date (anticipated):	01-09-2016
Enrollment:	1500
Type:	Anticipated

Ethics review

Not applicable
Application type: Not applicable

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	NL6210
NTR-old	NTR6374
Other	: ZonMw 531002005

Study results