

Functional consequences of decreasing vision: Efficiency of visual information processing in retinal disorders * an exploratory study.

Published: 02-01-2017

Last updated: 14-04-2024

To study the efficiency of visual information processing in patients with retinal disorders.

Ethical review	Approved WMO
Status	Recruiting
Health condition type	Retina, choroid and vitreous haemorrhages and vascular disorders
Study type	Observational non invasive

Summary

ID

NL-OMON43087

Source

ToetsingOnline

Brief title

Efficiency of visual information processing in retinal disorders

Condition

- Retina, choroid and vitreous haemorrhages and vascular disorders

Synonym

retinal disorder, retinopathy

Research involving

Human

Sponsors and support

Primary sponsor: Radboud Universitair Medisch Centrum

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

Intervention

Keyword: ophthalmology, retinal disorder, visual processing

Outcome measures

Primary outcome

- psychophysics
- Disease severity

Secondary outcome

- Questinnaires measuring visual quality of life
- Disease specific measures that may influence study parameters

Study description

Background summary

Efficient visual information processing is crucial in daily life. For example, mistakes due to a slow or incorrect interpretation of a traffic situation can have fatal consequences. In addition, current technology and media ask for the ability to quickly extract relevant information and ignore irrelevant information. This is even more evident when vision is damaged, for example due to a retinal disease. Current ophthalmological examinations however mainly focus on anatomical changes of the eye and visual functioning in terms of visual acuity and visual field. The efficiency of visual information processing by patients is largely neglected. As a result, problems experienced by patients may be unexplained or underestimated. In this project we study the efficiency of visual information usage in patients with retinal disorders using psychophysics.

Study objective

To study the efficiency of visual information processing in patients with retinal disorders.

Study design

observatory

Study burden and risks

We study consequences of patients with retinal diseases using psychophysics. Unless available from their medical files or self-report, we will perform some extra examinations to measure disease severity or disease specific factors that can influence study parameters. Furthermore, questionnaires will be used to measure visual quality of life. The complete experiment will take a few hours only including breaks.

Patients do not benefit directly from participating in this project. It does however contribute to knowledge of the efficiency of visual information processing in patients with retinal disorders and the consequences on their daily lives.

Contacts

Public

Radboud Universitair Medisch Centrum

Kapittelweg 29
Nijmegen 6525 EN
NL

Scientific

Radboud Universitair Medisch Centrum

Kapittelweg 29
Nijmegen 6525 EN
NL

Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age

Adults (18-64 years)

Elderly (65 years and older)

Inclusion criteria

- At least 18 years old
- diagnosed or suspected retinal disorder

Exclusion criteria

- Self-reported presence of neurological or psychiatric disorder that may influence vision or attention

Study design

Design

Study type:	Observational non invasive
Intervention model:	Other
Allocation:	Non-randomized controlled trial
Masking:	Open (masking not used)

Primary purpose: Basic science

Recruitment

NL	
Recruitment status:	Recruiting
Start date (anticipated):	24-03-2017
Enrollment:	40
Type:	Actual

Ethics review

Approved WMO	
Date:	02-01-2017
Application type:	First submission
Review commission:	CMO regio Arnhem-Nijmegen (Nijmegen)

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	NL58100.091.16