A study on the spatial distribution and function of the macular pigment

Published: 14-03-2007
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The aim of this study is to use different non-invasieve techniques to measure the spatial distribution of the macular pigment and its possibly relation with retinal structure and contrast sensitivity.

Ethical review	Approved WMO
Status	Recruitment stopped
Health condition type	Ocular structural change, deposit and degeneration NEC
Study type	Observational non invasive

Summary

ID

NL-OMON30687

Source
ToetsingOnline

Brief title
A study on the spatial distribution and function of the macular pigment

Condition

- Ocular structural change, deposit and degeneration NEC

Synonym
age related macular degeneration

Research involving
Human

Sponsors and support

Primary sponsor: Academisch Medisch Centrum
Source(s) of monetary or material Support: Ministerie van OC&W

Intervention

Keyword: contrast sensitivity, macular pigment, retina

Outcome measures

Primary outcome

The spatial distribution of the macular pigment

Retinal thickness

Contrast sensitivity

Secondary outcome

not applicable

Study description

Background summary

Lutein and zeaxanthin are the only carotenoids present in the macular pigment (MP) of the retina. Its exact meaning is unknown. Two hypothse have been put forward. 1. To minimize chromatic abbeartion (Acuity Hypothesis); 2. To protect agains age related macular deganeration. Although both unproven yet, may supplements do contain already large amounts of lutein and/or zeaxanthin.

Study objective

The aim of this study is to use different non-invasieve techniques to measure the spatial distribution of the macular pigment and its possibly relation with retinal structure and contrast sensitivity.

Study design

Cross-sectionele study.

Study burden and risks

A session takes one hour per subject.
Due to the tropicamide used to ensure pupil dilation, driving of a car must be postponed for another two hours.

There are no riscs. The use of the mydriatitum is 'standard procedure' in ophthalmology without any additional risks.

Contacts

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Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age
Adults (18-64 years)
Elderly (65 years and older)

Inclusion criteria

aged 18 years and older
visual acuity > 0.5

Exclusion criteria

no known eye disease

Study design

Design

Study type: Observational non invasive

Masking:	Open (masking not used)
Control:	Uncontrolled
Primary purpose:	Basic science

Recruitment

NL

Recruitment status:	Recruitment stopped
Start date (anticipated):	03-04-2007
Enrollment:	40
Type:	Actual

Medical products/devices used

Registration:	No

Ethics review

Approved WMO

Date:	14-03-2007
Application type:	First submission
Review commission:	METC academisch ziekenhuis Maastricht/Universiteit Maastricht, METC azM/UM (Maastricht)

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	NL15898.068.07