

Gaining insight into dual sensory loss - Quantitative study

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The objective of this study is to determine which problems arise from different levels of impairments in visual and auditory functions. We will especially focus on the areas of access to information, communication, fatigue and mobility.

Ethical review	Approved WMO
Status	Recruiting
Health condition type	Hearing disorders
Study type	Observational non invasive

Summary

ID

NL-OMON55953

Source

ToetsingOnline

Brief title

DSL

Condition

- Hearing disorders
- Vision disorders

Synonym

deafblindness, dual sensory loss

Research involving

Human

Sponsors and support

Primary sponsor: Vrije Universiteit Medisch Centrum

Source(s) of monetary or material Support: Stichting Novum

Intervention

Keyword: dual sensory loss, quantitative study, questionnaires

Outcome measures

Primary outcome

Degree of difficulty in the areas of access to information, communication, fatigue and mobility.

Secondary outcome

n.a.

Study description

Background summary

People with dual sensory loss have impairments in both vision and hearing. When the impairments of multiple visual and/or auditory functions are severe, it will become more difficult to compensate for these impairments. This can result in serious impairments, for example in the areas of access to information, communication, fatigue and/or mobility. Now, we do not know which problems arise from different combinations and levels of impairments in visual acuity, visual field, hearing threshold, directional hearing and speech understanding. We also do not know how this influences the areas of access to information, communication, fatigue and mobility.

Study objective

The objective of this study is to determine which problems arise from different levels of impairments in visual and auditory functions. We will especially focus on the areas of access to information, communication, fatigue and mobility.

Study design

Participants' visual (visual acuity, visual field, contrast sensitivity) and auditory functions (hearing threshold, directional hearing, speech understanding) will be measured. We will use the following materials:

- ETDRS card to measure visual acuity
- Vistech card to measure contrast sensitivity

- Octopus perimeter
- Affinity compact audiometer (including NVA words to measure speech understanding in silence)
- 8 Genelec 8020 DPM speakers to measure directional hearing
- Digits in Noise (DIN) test to measure speech understanding in noise

Several questionnaires and tests will be conducted to measure difficulties in the areas of access to information, communication, fatigue and mobility:

- Dutch ICF Activity Inventory - domains watching TV, using a computer, using a telephone, mobility outdoors (walking), using public transportation and feeling fit
- Speech, Spatial and Qualities of Hearing Scale
- Spatial Localization Questionnaire
- Fatigue Assessment Scale

Study burden and risks

Participants' visual and auditory functions will be measured and they will fill out a number of questionnaires. The risks of this study are low. Participants can evaluate for themselves whether they are able to participate, and can end their participation at any time.

Contacts

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Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age

Adults (18-64 years)

Inclusion criteria

- Older than 18 years
- Good understanding of the Dutch language
- Clients: visual and/or auditory impairment
- Other participants: normal vision and hearing

Exclusion criteria

- Impaired cognitive functioning

Study design

Design

Study type: Observational non invasive

Masking: Open (masking not used)

Control: Uncontrolled

Primary purpose: Other

Recruitment

NL

Recruitment status: Recruiting

Start date (anticipated): 15-04-2024

Enrollment: 300

Type: Actual

Medical products/devices used

Registration: No

Ethics review

Approved WMO

Date: 23-06-2022

Application type: First submission

Review commission: METC Amsterdam UMC

Approved WMO

Date: 27-10-2023

Application type: Amendment

Review commission: METC Amsterdam UMC

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	NL76924.029.22