Speech recognition and temporal resolution in listeners with unilateral hearing loss; intra- and inter-individual differences

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Ethical review	Approved WMO
Status	Recruitment stopped
Health condition type	Other condition
Study type	Observational non invasive

Summary

ID

NL-OMON40201

Source
ToetsingOnline

Brief title
SRT and temporal resolution in UHL listeners

Condition

- Other condition
- Hearing disorders

Synonym
hard of hearing, hearing loss

Health condition

gehoorproblemen

Research involving
Human

Sponsors and support

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

Intervention

Keyword: audiology, hearing loss, speech

Outcome measures

Primary outcome

Speech reception threshold of the CVC-test and DIN-test, gap detection

thresholds of the TiNG *test.

Secondary outcome

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Study description

Background summary

hearing-impaired listeners have reduced ability to recognize speech in daily life situations. Auditory and non-auditory factors influence the speech understanding in a variety of auditory conditions. Psychophysical tests will be done by participants with an unilateral hearing loss. Hence, we can investigate the influence of auditory factors, because non-auditory factors will be equal for both ears. Group results for unilateral hearing loss listeners can be compared to normal hearing and bilaterally hearing-impaired listeners to enhance insight in the impairment to eventually ameliorate participation of this group of patients in daily life.

Study objective

we aim to enhance insight in the specific influence of cochlear hearing loss on auditory processing and speech. We expect that the results for the normal ears of the unilateral hearing loss listeners is comparable to the results for normal hearing listeners and that the results for the abnormal ears of

unilateral hearing loss listeners are comparable to the results for the bilaterally hearing-impaired listeners.

Study design

Cross-sectional study in which intra- and inter-individual differences will be compared

Study burden and risks

For this study, participants will attend one test session of about 3.5 hours. Test session includes audiometry, speech reception tests and temporal resolution test. Participants are at no health risk and not exposed to harmful sound intensities.

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

native language: dutch
age: 18+
unilateral hearing loss / bilateral hearing loss / normal hearing

Exclusion criteria

conductive hearing loss
asymmetry in hearing loss of > 60 dB
Retro-cochlear heraing loss
serious medical issues
other native languages

Study design

Design

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

Recruitment

NL

Recruitment status:	Recruitment stopped
Start date (anticipated):	17-02-2015
Enrollment:	70
Type:	Actual

Ethics review

Approved WMO Date:	03-07-2014
Application type:	First submission
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	NL47432.029.14