

Hearing aids, mild hearing loss and tinnitus

Submission date 24/11/2012	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 14/01/2013	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
Last Edited 23/05/2017	Condition category Ear, Nose and Throat	<input type="checkbox"/> Individual participant data <input type="checkbox"/> Record updated in last year

Plain English summary of protocol

Background and study aims

Hearing aid technology has changed dramatically over the last decade with the use of miniaturised computer chips and improved plastics engineering. Both the structural design and the sound processing have seen major changes. It is suggested that the rules previously used to guide the selection of hearing aids for hearing losses and the minimum hearing loss are not relevant when considering the modern hearing instrument. In particular, for those patients with a mild hearing loss and also suffering from tinnitus (the perception of noise in one ear, both ears or the head), new open fit digital hearing aids are thought to be helpful with mild hearing losses where traditional hearing aids would not have been fitted. The aim of this study is to inform the clinical practice of audiologists who see patients with distressing tinnitus associated with a mild hearing loss; in particular whether these patients should be offered amplification with digital hearing instruments using open fit technology. A secondary aim would be to stimulate further research on a larger scale, possibly using multiple centres. A larger scale, longer term and more robust study with higher numbers of patients involved would serve to support the findings of this smaller study.

Who can participate?

Patients with tinnitus aged between 18 and 80

What does the study involve?

Each participant has their tinnitus severity measured before treatment and six weeks after treatment to measure any changes. The measurement tool to be used is the Tinnitus Functional Index, which is sensitive to change over time. Treatment consists of an open-fit hearing aid fitting verified by Real Ear Measurement.

What are the possible benefits and risks of participating?

The possible benefits of participating are a reduction of tinnitus distress and improved hearing. There are no risks to the participants. The proposed treatment is identical to current clinical practice over the past 3 years.

Where is the study run from?

Rotherham Community Health Centre (UK)

When is the study starting and how long is it expected to run for?

January 2013 to September 2013

Who is funding the study?

The study does not require any funding as the participants undergo the same interventions currently carried out in clinic.

Who is the main contact?

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Contact information

Type(s)

Scientific

Contact name

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Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

N/A

Study information

Scientific Title

Does amplification alleviate the distress caused by tinnitus in patients with mild hearing loss?

Study objectives

Amplification provided by digital hearing instruments using open fit technology combined with counselling, giving advice and information alleviates the tinnitus distress measured by the Tinnitus Mini Questionnaire in patients with a mild hearing loss.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Leeds West, 05/03/2013, ref: 13/YH/0033

Study design

Single-centre quasi-experimental before and after design

Primary study design

Interventional

Secondary study design

Non randomised study

Study setting(s)

GP practice

Study type(s)

Treatment

Participant information sheet

Not available in web format, please use the contact details to request a patient information sheet

Health condition(s) or problem(s) studied

Tinnitus/mild hearing loss

Interventions

Before and after - no control

Prior to treatment, the Tinnitus Functional Index (TFI) is completed by each participant. They are then fitted with 'open-fit' hearing aids using real ear measurements as a verification to National Acoustic Laboratories - Non Linear 2 (NAL-NL2) algorithm. After 6 weeks the TFI is completed again to measure relief from tinnitus provided by the hearing aids.

Intervention Type

Other

Phase

Not Applicable

Primary outcome measure

Tinnitus Functional Index (TFI) before intervention and 6 weeks post intervention

Secondary outcome measures

No secondary outcome measures

Overall study start date

01/01/2013

Completion date

01/09/2013

Eligibility

Key inclusion criteria

1. Referred to Audiology for tinnitus management by general practitioner (GP), audiologist or ENT
2. A Tinnitus Functional Index higher than 24
3. Any hearing threshold >20dB in either ear
4. Aged between 18 and 80 years, either sex
5. Voluntary informed consent given
6. Psychosocially, mentally and physically able to fully comply with the protocol including adhering to follow-up schedules and requirements and filling out forms

Participant type(s)

Patient

Age group

Adult

Lower age limit

18 Years

Sex

Both

Target number of participants

40

Key exclusion criteria

Does not meet inclusion criteria

Date of first enrolment

01/01/2013

Date of final enrolment

01/09/2013

Locations

Countries of recruitment

England

United Kingdom

Study participating centre

University of Leeds
Leeds
United Kingdom
LS2 9UT

Sponsor information

Organisation

University of Leeds (UK)

Sponsor details

Faculty Research Ethics and Governance Administrator
Faculty Research Office, Room 10.110, Level 10
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United Kingdom
LS2 9NL

Sponsor type

University/education

Website

<http://www.leeds.ac.uk/>

ROR

<https://ror.org/024mrxd33>

Funder(s)

Funder type

Other

Funder Name

Investigator initiated and funded (UK)

Results and Publications

Publication and dissemination plan

Publication plans are unknown at this stage.

Intention to publish date

Individual participant data (IPD) sharing plan

The current data sharing plans for the current study are unknown and will be made available at a later date.

IPD sharing plan summary

Data sharing statement to be made available at a later date

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
HRA research summary			28/06/2023	No	No