

Initial findings from a clinic questionnaire

Alinka E. Greasley*, Harriet Crook^, Robert J. Fulford*

*School of Music, University of Leeds, UK ^Sheffield Teaching Hospitals NHS Foundation Trust, UK

Background

Music is an important part of people's everyday lives (Greasley et al.,

Aims

- To explore the prevalence of music listening problems among HA users
- To identify the nature of discussions about music between audiologists and

www.musicandhearingaids.org

- 2013), including those with hearing impairments (Fulford et al. 2011)
- 10 million people in the UK have a hearing impairment (AoHL 2011), but little is known about the music listening experiences of this population
- Hearing aids (HAs) are designed to amplify speech but the acoustic properties (e.g. frequency range, amplitudes, crest factors) of speech and music are very different (Chasin & Russo, 2004; Tozer & Crook, 2012)
- HAs help with music listening but are problematic for live performances. HA users can experience distortion and acoustic feedback, sudden dynamic variations and low fidelity (Madsen & Moore, 2014)

Results

"Sounds 'tinny' and indistinct"

- **Do you experience problems listening to music?** n = 114, M = 4.00 (SD 1.93)
 - Lack of definition / clarity / fidelity Difficulties hearing words in songs Problems hearing

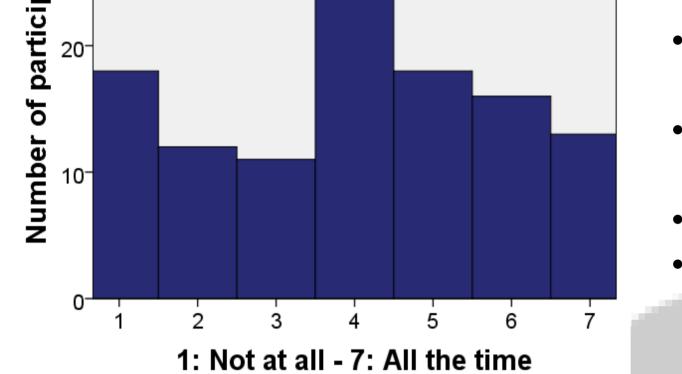
their patients in clinic

Method

- Four questions (rating scales) and open-ended responses (see below)
- Extent of problems with music listening, effect on quality of life, whether music has been discussed with audiologist and the outcomes of this
- Sheffield Teaching Hospitals NHS Foundation Trust Hearing Service
- Harley Street Hearing and Musicians' Hearing Services

Sample

- **n** = 115, **Age**: M 60.30, **Gender** : 50 F (44%) 63 M (56%), STH: 53 HSH: 62
 - 3. Have you ever talked with your audiologist about music listening? (n = 113)
 - Positive reports about experience in audiology clinic
 - Only 36% had spoken with their audiologist about



quiet passages • Distortion

life or hobby

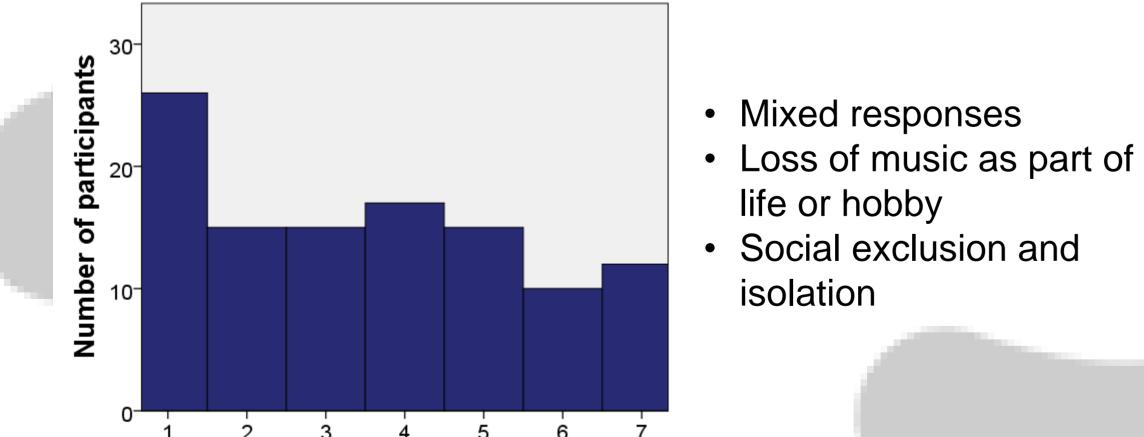
isolation

Social exclusion and

- Problems in live
- contexts

"I cannot hear the words at all"

Does this negatively affect your quality of life? n = 111, M = 3.50 (SD 2.04)



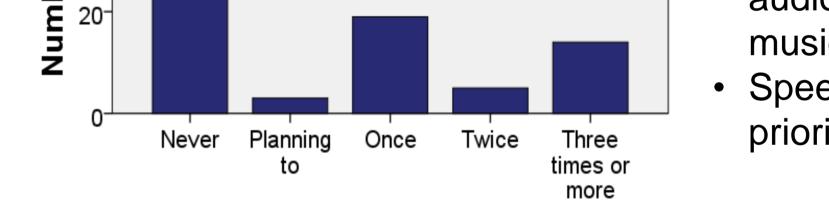
"It's a constant

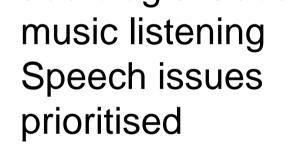
"At a concert or

opera, I have to

remove the aids"

issue, but 'quality of life' is a bit much"

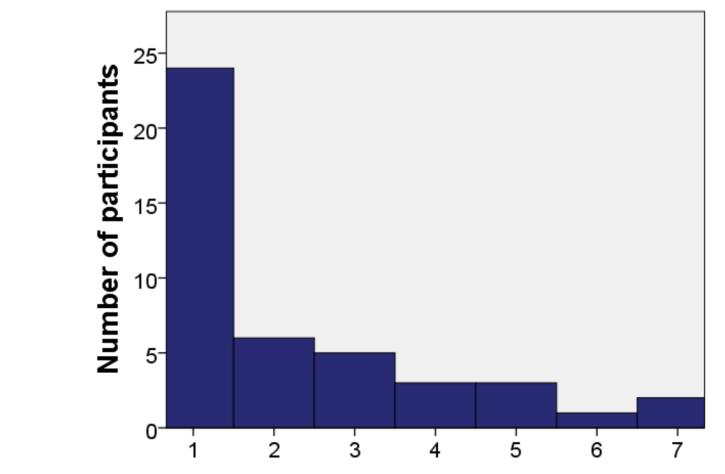




"...other problems related to hearing" loss have been more important..."

of particil

If you have discussed music listening with your 4. audiologist, to what extent has this improved your **experience of music?** n = 49, M = 2.00 (SD 1.79)



- Increased tailoring is more effective
- Differences emerging between STH and HSH clinics

(1 Not at all -- 7 All the time)

Summary and future directions

- Music listening with HAs is 'moderately' problematic (Q1)
- There is larger variance in quality of life ratings (Q2)
- Most HA users had never talked with their audiologist about music (Q3)
- For those who had, outcome ratings for music were low (Q4)

Arts & Humanities Research Council

- Interview study to explore patterns of music listening experiences within a representative sample of hearing aid users in the UK population
- Need for an outcome measure to assess sound quality ratings for music using HAs

"seems to be an unsolvable problem in otherwise excellent hearing aids"

References

Chasin, M., & Russo, F. (2004). Music and hearing aids. *Trends in Amplification, 8*, 35-47.

Fulford, R., Ginsborg, J., & Goldbart, J. (2011). Learning not to listen: The experiences of musicians with hearing impairments. *Music Education Research, 13*(4), 429-446

Greasley, A. E., Lamont, A. & Sloboda, J. A. (2013). Exploring musical preferences: An in-depth study of adults' liking for music in their personal collections, Qualitative Research in Psychology, 10 (4), 402-427.

Madsen, S. M., & Moore, B. C. (2014). Music and hearing aids. *Trends in Hearing, 18*, doi: 10.1177/2331216514558271

Tozer, C., & Crook, H. (2012). Music listening with hearing aids: A review of the literature. Poster presented at the Music Mind Machine Launch Event in Sheffield.



Sheffield Teaching Hospitals **NHS Foundation Trust**

UNIVERSITY OF LEEDS