



Background

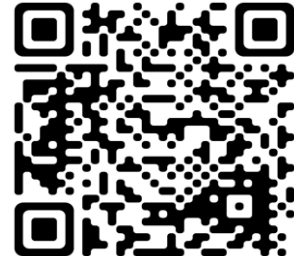
For numerous individuals grappling with hearing loss (HL), the sources of frustration does not primarily emanate from intrinsic bodily factors but rather stem from the unwelcome reception they encounter within society¹. The International Classification of Functioning, Disability and Health (ICF) model presents a comprehensive biopsychosocial model of health and disability that focuses on an individual in a given context ².

Despite the ICF's importance in audiological rehabilitation, there remains an unexplored relationship between diagnostic findings and perceived challenges within the ICF framework. Understanding how demographic and diagnostic variables predict self-reported disability can inform tailored interventions and improve patient outcomes.

Objectives

The multidimensional ICF framework was used to explore the relationship between demographic and diagnostic variables and self-reported disability in adults with HL.

Method

- The ICF framework was used to develop a structured interview guide, available here: 
- Using ordinal logistic models, the interview responses were measured against demographic and diagnostic variables: hearing aid usage (HA), degree of HL, gender, level of education, age and income bracket.
- 571 participants from India (n=94), South Africa (n=79), Sweden (n=219) and the US (n=179) were included.

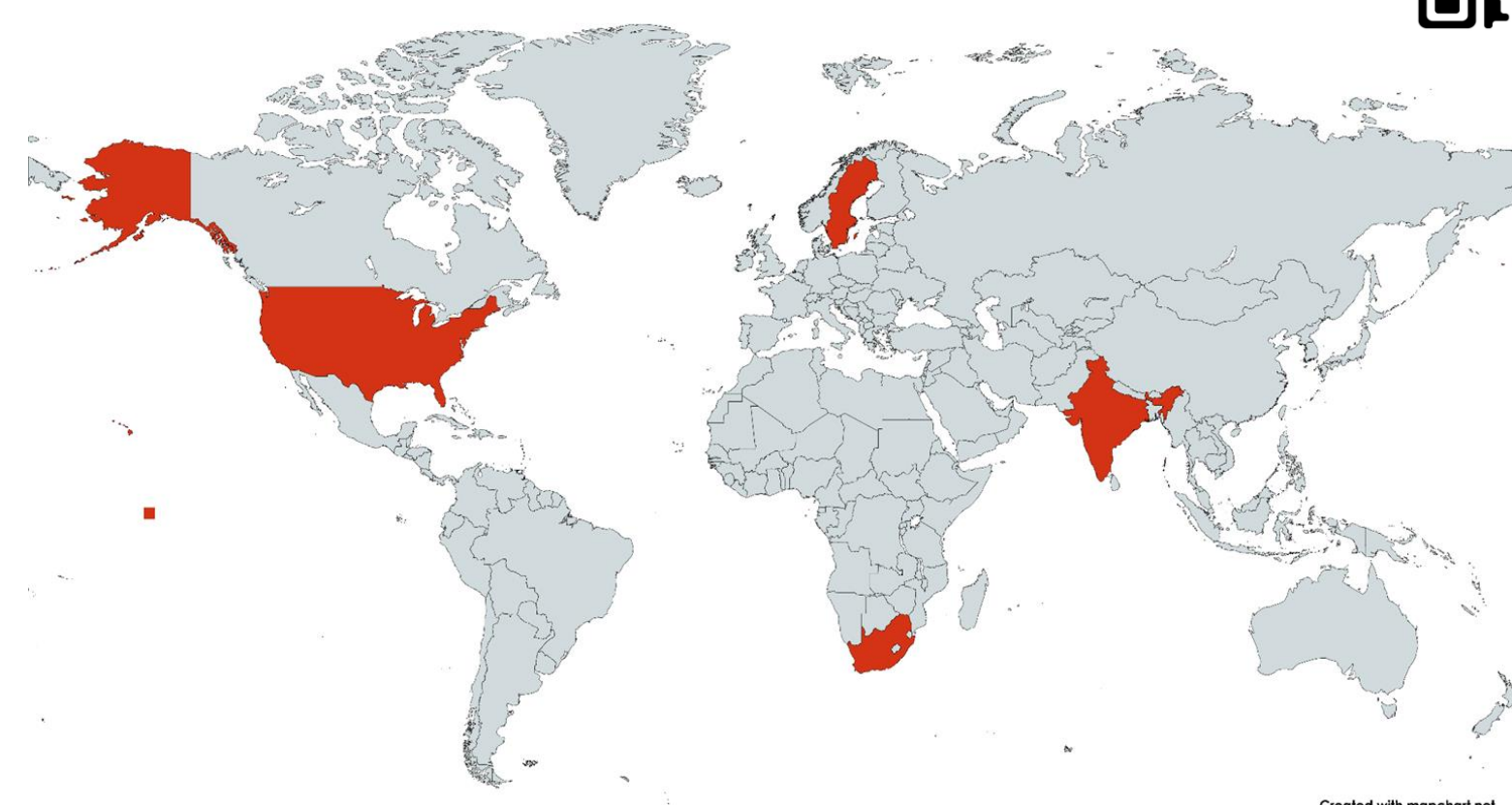


Figure 1. Included participant regions

Results

- Participants had an average age of 66.6 years (13.9 SD, 18 - 100 range) with 51% being male.
- 79.1% of participants had completed high school or University with 69.7% being from a high income country.
- 74.6% of the participants were HA users with a moderate to severe HL.
- Five statistically significant predictors were identified; HA usage, degree of HL, level of education, age, and income bracket.
- Predictors were associated to the following ICF components; body functions (b126, b210, b230, b240), activity and participation (d310, d350) and environmental factors (e125, e250, e310, e355, e410, e460).

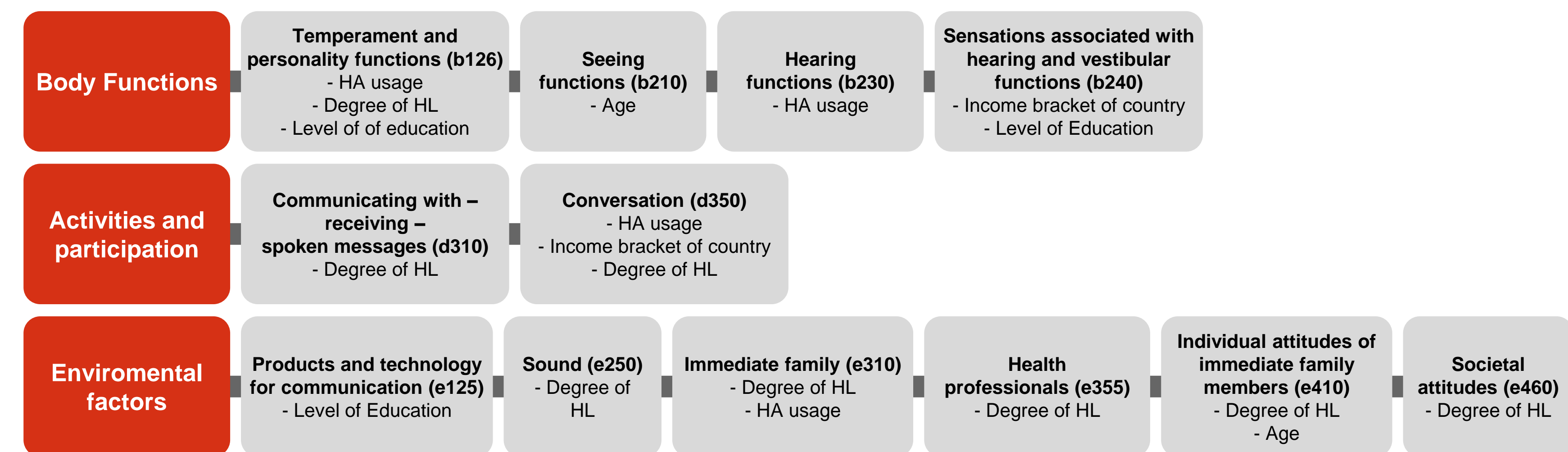


Figure 2. Significant (p<.05) predictors across ICF components. HL = Hearing loss, HA = Hearing aid

Conclusion

An individual's experience of their HL is significantly influenced by various factors beyond the severity of the loss itself. This underscores the ICF's utility in capturing the complex interplay of biopsychosocial factors on an individual. Identifying significant predictors could aid in tailoring interventions to improve health outcomes and quality of life for individuals with HL.

References

- Goering, S. (2015). Rethinking disability: the social model of disability and chronic disease. *Current Reviews in Musculoskeletal Medicine*, 8(2), 134–138.
- ICF Research Branch (2017). *ICF Core Set for hearing loss*.