

Possible reasons for

inconsistency:

Suggestions to improve

future studies:

Studies included in review (n=54)

MORE INFORMATION

Scan the QR code to find the full paper: Beckers, L., Tromp, N., Philips, B., Mylanus, E., & Huinck, W. (2023).



Exploring neurocognitive factors and brain activation in adult cochlear implant recipients associated with speech perception outcomes-A scoping review. Frontiers in neuroscience, 17, 1046669.

https://doi.org/10.3389/fnins.2023.1046669

In the paper you will also find a summarized overview of each of the 54 included articles.

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References

MOSAICS

- Sachdev, P. S., Blacker, D., Blazer, D. G., Ganguli, M., Jeste, D. V., Paulsen, J. S., et al. (2014). Classifying neurocognitive disorders: The DSM-5 approach. Nat. Rev. Neurol. 10, 634-642. doi: 10.1038/nrneurol.2014.181
- Zucca, M., Albera, A., Albera, R., Montuschi, C., Della Gatta, B., Canale, A., et al. (2022). Cochlear implant results in older adults with post-lingual deafness: The role of "top-down" neurocognitive mechanisms. Int. J. Environ. Res. Public Health 19:1343.
- Hua, H., Johansson, B., Magnusson, L., Lyxell, B., and Ellis, R. J. (2017). Speech 3. recognition and cognitive skills in bimodal cochlear implant users. J. Speech Lang. Hear. Res. 60, 2752–2763. doi: 10.1044/2017_JSLHR-H-16-0276

DONDERS



Different cognitive domains and factors might not be independent of each other and lack of statistical power.

Make use of regression analysis models instead of correlation analysis to observe any interplay or overlapping factors and provide sufficient power / report effect sizes.

Statistics

Radboudumc

Cochlean