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Effects of Music Training via Direct Streaming on Music Perception and Speech Intelligibility in Cochlear Implant Users

For cochlear implant (CI) users, music processing remains a major challenge, both in terms of the technical limitations of the devices and the auditory processing abilities of the users themselves. In this prospective study, the effects of one year of music training on musical perception and speech perception were investigated in CI users (Med-EI) who trained using direct streaming with the music training app “Meludia.” Music perception was assessed using psychoacoustic experiments across different perceptual dimensions. The study demonstrates that regular music training in CI users can lead to improvements in musical perception as well as speech understanding in noise, suggesting that musical training should be incorporated as a regular component of individualized auditory rehabilitation.