Neuroimaging investigations of recovery from sentence processing deficits in aphasia

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Sentence production and comprehension deficits are a hallmark of agrammatic aphasia, an acquired language disorder that most often occurs following a stroke affecting the left hemisphere, and of the agrammatic subtype of Primary Progressive Aphasia (PPA-G), a neurodegenerative disease in which neuronal loss (atrophy) affects primarily the language-dominant left hemisphere. In this talk, I will present the results of a few studies investigating the behavioral and neuroimaging effects of language interventions directed to sentence processing deficits in agrammatic aphasia due to stroke and in PPA-G, highlight the potential of right hemisphere homologues of language regions for supporting recovery, and discuss some of the factors underlying variability in treatment-induced changes in functional activation. The implications of such findings on the selection of targets for combined behavioral-neuromodulatory interventions also will be discussed, together with preliminary findings from studies using transcranial direct current stimulation (tDCS).

The online lecture can be followed online from your computer, tablet or smartphone, in Zoom. The zoom link is accessible via the C-STAR website: http://cstar.sc.edu/lecture-series/

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