

Cross Line of Causality in Childhood Stuttering between Psychology and Neurolinguistics: Systematic Literature Review and Meta-Analysis

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Abstract : Stuttering is a multidimensional disorder that is influenced by different factors. As a result of their understanding of the genuine reasons behind stuttering, psychiatrists and Speech and Language Pathologists/Therapists (SLP/Ts) are often unfamiliar with the psychoneurolinguistic characteristics, support needs, and the disability measurement impacting requested rehabilitation of the stuttering population. PubMed, PsycInfo, Web of Science, Scopus, and Google scholar searches, in addition to some unpublished literature, were conducted in this Systematic Literature Review and Meta-analysis (SLR and Meta-analysis) to identify whether stuttering is caused by psychological or neurological reasons. The study concluded that psychological, not neurolinguistic factors were identified as most significant for the causality of childhood stuttering. Stutterers have intact language skills, but impaired ability more to communicate with others than to form letters in the brain or to articulate them. The study recommends research in the future that sheds light on the adult stuttering population often left out of the focus of diagnosis and in need of further exploration vis-a-vis issues they encounter, as well as the possible ways to deal with them psychoneurolinguistically.

Keywords : causality, childhood stuttering, psychology, neurolinguistics, systematic literature review, meta-analysis

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