

Efficacy and Implementation of Online Speech Therapy Systems for Childhood Speech Communication Disorders: A Systematic Review

Radhika Jain*

Department of Audiology and Speech Language Pathology, AWH Special College, Kerala University of Health Sciences, Calicut, India

Abstract

Currently, not all children in need of speech therapy have the opportunity to receive treatment from a therapist due to a shortage of speech-language pathologists (SLPs) worldwide. To address this issue, there is a growing demand for online tools that can assist SLPs in their daily work. The technical requirements and knowledge necessary to use these programs pose a challenge for SLPs. Furthermore, there has been a lack of systematic identification, analysis, and reporting of previous studies on this topic. We systematically reviewed OST systems that can be utilized either in clinical settings or at home as part of a comprehensive treatment program for children with speech communication disorders. We thoroughly examined the features of these programs and extracted and presented the main findings. Our analysis indicates that the majority of systems designed to support SLPs primarily utilize supervised machine

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