

Article

Use of Virtual Reality in Children with Dyslexia

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Abstract: In recent years, the study of dyslexia has seen rapid progress in definition and classification, neuropsychological correlates, neurobiological factors, and intervention. However, there are few studies on how virtual reality can affect improving cognitive domains and cross-cutting pedagogical skills. We, therefore, tested intervention through the use of a virtual reality rehabilitation system (VRRS) in children with dyslexia. Twenty-eight patients diagnosed with dyslexia were enrolled in this study. One-half underwent conventional neuropsychological treatment, and the other half performed VR neurorehabilitation training using the VRRS. All patients were evaluated by neuropsychological assessment at baseline (T0) and at the end of the protocol (T1). The assessment included the administration of the Wechsler Intelligence Scale for Children-IV and the Italian Battery for the Assessment of Dyslexia and Dysorthography. Our results showed a significant difference in word-reading test scores as well as in homophonic writing. In addition, treatment type was found to affect some domains of the WISC. We believe that the VRRS led to improved outcomes through the use of VR, which encourages active exploration, improves engagement, and provides motivation and enjoyment, allowing longer training sessions and improving treatment adherence.

Keywords: dyslexia; virtual reality; learning disabilities

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1. Introduction

Over the past 25 years, the scientific understanding of dyslexia and other learning difficulties has seen rapid advances in areas involving their definition and classification, neuropsychological correlates, neurobiological factors, and intervention [1].

Dyslexia is a reading disorder in children and adults, characterized by partial deficits in the reading and spelling of a single word [2,3]. Prevalence estimates range from 6% to 17% of the school-age population, depending on the criteria for the severity of reading difficulties [4]. There is a higher incidence in males, with a ratio of about 1.5:1, but this is lower than the historical estimates of about 3.4:1 [5]. The basis of dyslexia is neurobiological, with significant evidence of heredity; dyslexia can be remedied in many children through early rehabilitation [3,4]. It is now well established that dyslexia is a neurological disorder of genetic origin, currently under investigation. Beyond this consensus, the biological and cognitive causes behind reading delays are still debated [6–9].

Although there is now a strong consensus among researchers that the central difficulty in dyslexia reflects a deficit within the language system (the phonological theory) [10–13], other theoretical models remain convincing such as the theory of auditory temporal processing deficits [14], the cerebellar theory [15], and, more recently, the visual attention deficit theory [16–19], and the magnocellular visual impairment theory of dyslexia [20–22]. The last of these postulates that the magnocellular pathway is selectively disrupted in some dyslexic individuals and that this leads to deficiencies in visual processing. The visual theory does not rule out a phonological deficit but emphasizes a further visual contribution to reading problems, at least in some dyslexic individuals [23].

Reality Of Dyslexia

JS Bruner



Reality Of Dyslexia:

Unveiling the Energy of Verbal Artistry: An Mental Sojourn through **Reality Of Dyslexia**

In a world inundated with displays and the cacophony of instantaneous conversation, the profound power and emotional resonance of verbal artistry frequently fade in to obscurity, eclipsed by the constant onslaught of sound and distractions. However, located within the musical pages of **Reality Of Dyslexia**, a fascinating perform of fictional elegance that impulses with raw thoughts, lies an remarkable journey waiting to be embarked upon. Written by a virtuoso wordsmith, this magical opus instructions visitors on an emotional odyssey, lightly exposing the latent potential and profound affect stuck within the delicate internet of language. Within the heart-wrenching expanse of the evocative analysis, we can embark upon an introspective exploration of the book is key themes, dissect their fascinating publishing type, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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