Abstract Template

Abstract Title: Using Vibrotactile Biofeedback System for Bilateral Vestibular Loss.

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Abstract
Bilateral Vestibular Loss (BVL) main complaints are oscillopsy and imbalance. BVL has a strong negative impact on physical function and social interaction, decreasing quality of life. Vestibular Rehabilitation therapy is currently the mainstay in the treatment for these patients. However, rehabilitation therapy has shown to be less effective with patients with bilateral vestibular loss. There is no evidence of an effective treatment for patients with bilateral vestibulopathy. Visual, auditory, vibrotactile, and electrotactile feedback have been used to provide real-time feedback of body or head movement during quiet and perturbed stance and some locomotor activities. There is a clear need for a therapeutic solution. In this pilot study, subjects with BVL used the Vibrotactile Biofeedback System (VBS). A significant improvement in quality of life of these subjects was observed. Efforts toward the development of VBS were justified. This method could be crucial for some patients' quality of life.
Key words: Rehabilitation; Postural Balance; Feedback; Sensory

Professional Biography
She earned her baccalaureate in Brazil (2004). Her master's (2006) and PhD's (2011) degrees in Medicine (Health Sciences: Tropical Diseases) and Balance Disorders, and post doc in The Netherlands in Maastricht University (2015). Her area of expertise is Balance Disorders, Electrophysiology and Cochlear Implant. She is currently an Assistant Professor for the Department of Speech and Hearing Science in the College of College of Fine Arts and Communication at Lamar University, in Texas. She contributed with more than 30 original papers and (co-) authored in more than 80 presentations at congresses (national and international) and has been serving as an editorial board member of Journal of the Association for Research in Otolaryngology, Journal of Otolaryngology-ENT Research, Global Journal of Otolaryngology. Also, as a Journal Reviewer of Audiology - Communication Research (ACR), Journal of Otolaryngology-ENT Research, Otolaryngology Open Access Journal (OOAJ), Revista CEFAC (Online), The American Journal of Tropical Medicine and Hygiene.



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