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Effect of Visual Versus Auditory Myofeedback on Gait Pattern of Hemiparetic Children

Thesis

Submitted in Partial Fulfillment of the Requirements of Doctoral Degree in Physical Therapy

٣٧٢٠٥٢

By

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Abstract

Effect of Visual Versus Auditory Myofeedback on Gait Pattern of Hemiparetic Children /Rasha Abdel moneim Mohamed; Supervisors: Prof. Dr. Emam Hassan El-Negmy - Prof. Dr. Hoda Abdel Aziem El-Talawy, Department of Growth and Developmental Disorders and its Surgery in Pediatrics, Faculty of Physical Therapy, Cairo University - Prof. Dr. Hala Salah El-Din Mohamed, Department of Pediatrics, Faculty of Medicine, Cairo University. Doctoral Thesis, 2008.

The purpose of this study was to compare between effects of visual and auditory myofeedback on gait pattern of hemipartic children. Forty-five hemipartic children, from 6 to 8 years old participated in this study. They were classified randomly into three groups of equal numbers. They received feedback training (visual, auditory; audiovisual for three groups respectively) of tibialis anterior muscle, in addition to the same selected exercise program. Gait parameters were assessed before and after three months of treatment using motion analysis system. The results revealed significant improvement in all measured variables for three groups with greater improvement in the favor of the auditory group.

Key words: visual, auditory, myofeedback, gait pattern, hemiparetic.

CONTENTS

Page