

**ELECTRONIC GUIDE TO THESES APPROVED BY
PHYSICAL THERAPY DEPARTMENT FOR NEUROMUSCULAR
AND NEUROSURGICAL DISORDER AND ITS SURGERY
PREPARED BY NERVEEN ABD EL SALAM ABD EL KADER AHMED**

Physical Therapy Department for Neuromuscular and Neurosurgical Disorder and Its Surgery

**Doctoral Degree
2009**

Author	:	Amir Abdel Raouf Fadl El Fiky.
Title	:	Efficacy of dual-task balance training in stroke patients with balance impairments.
Dept.	:	Physical Therapy Department for Neuromuscular and Neurosurgical Disorder and its Surgery.
Supervisors		1. Nahed Ahmed Salem. 2. Abd El-Moez Abd El-Aziz El-Gendy. 3. Hoda Mohamed Zakaria Zaki.
Degree	:	Doctoral.
Year	:	2009.
Abstract	:	
<p>The purpose of this study was to determine the efficacy of dual-task balance training program on balance problems in stroke patients. Forty stroke patients participated in this study. All of them were assigned into study group. All subjects were assessed for; the dynamic standing balance, functional balance activities, and mental abilities. These measurements were recorded two times during the period of the study; pre-treatment and post treatment. All the patients received dual-task balance training program. The program was conducted two times/ week for six weeks. The results of this study revealed statistically highly significant improvement in all variables of the study group. From the obtained results of this study, it can be concluded that dual-task balance training is beneficial program that can be used to improve the functional balance activities in stroke patients (mainly elders).</p>		
Key words		1. Stroke. 2. Balance. 3. Cognition. 4. Dual. 5. Task.
Arabic Title Page	:	فاعلية تمارين الاتزان ثنائية المهام فى مرضى السكتة الدماغية ذوى مشاكل الاتزان.
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Author	:	Mohamed Fathi Ramadan El-Sultan.
Title	:	Functional outcome of pulsed magnetic stimulation in spastic paraplegic patients.
Dept.	:	Physical Therapy Department for Neuromuscular and Neurosurgical Disorder and its Surgery.
Supervisors	1.	Nawal Abou Shady.
	2.	Forayssa Talaat.
Degree	:	Doctoral.
Year	:	2009.
Abstract	:	
<p>Back ground: The purpose of this study was to investigate the effect of Pulsed Magnetic Stimulation on Functional Outcome of Paraplegic Patients. Thirty paraplegic patients were selected randomly. Subjects in the study received the pulsed magnetic stimulation in addition to the traditional physical therapy program (stretching, strengthening, balance and weight bearing). The following parameters include functional activities of daily living (Barthel index), EMG H/M Ratio and amount of Serotonin in the serum of the blood were measured before and after four weeks of treatment program. Results: There was a significant improvement that occurred after treatment, regarding the clinical, functional, and biochemistry of the blood. According to the statistical analysis, the pulsed magnetic stimulation with a frequency 12-25Hz, 40-100% intensity and 20 minutes is considered very effective in rehabilitation of spastic paraplegic patients.</p>		
Key words	1.	Spastic paraplegia.
	2.	Functional Activities.
	3.	EMG H/M ratio.
	4.	Pulsed magnetic stimulation.
	5.	Serotonin.
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