

**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**

**Master Degree  
2001**

<b>Author</b>	:	<b>Hoda Mohamed Zakaria Zaki.</b>
<b>Title</b>	:	<b>Neuromuscular electrical stimulation and wrist splint controlling spasticity in stroke patients.</b>
<b>Dept.</b>	:	<b>Physical Therapy Department for Neuromuscular and Neurosurgical Disorder and its Surgery.</b>
<b>Supervisors</b>	1.	<b>Naima Hamdy Hassan.</b>
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<b>Degree</b>	:	<b>Master.</b>
<b>Year</b>	:	<b>2001.</b>
<b>Abstract</b>	:	
<p>This investigated a therapeutic regimen using NMES And wrist splint too assess their efficacy in reducing wrist flexor spasticity in stroke patients twenty-six spastic stroke patients were assigned into either a study or control group both groups received traditional exercise program and wrist splint the study group received additional neuromuscular electrical stimulation (NMES)all patients in both groups received their treatment for six days weak for eight successive weeks assessments were made for muscle tone, resting wrist angle (RWA), active rang of motion (ROM) and muscle tension of wrist extensors one time with flexed fingers and another time with extended fingers the study group showed significant decrease in muscle tone and RWA, and improved isolated motor control of the wrist.</p>		
<b>Key words</b>	1.	<b>Wrist.</b>
	2.	<b>Spasticity.</b>
	3.	<b>stroke.</b>
<b>Arabic Title Page</b>	:	<b>تأثير الكهربي العضلي العصبي وجبيرة الساعد في التحكم في التشنج العضلي في مرضى السكتة الدماغية.</b>
<b>Library register number</b>	:	<b>818-819.</b>

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<b>Author</b>	:	<b>Nevein Mohamed Mohamed Ghareeb.</b>
<b>Title</b>	:	<b>Value neuromuscular electrical stimulation in conjunction with shoulder sling in reducing the incidence of shoulder subluxation in stroke patients.</b>
<b>Dept.</b>	:	<b>Physical Therapy Department for Neuromuscular and Neurosurgical Disorder and its Surgery.</b>
<b>Supervisors</b>	1.	<b>Naiema Hamdy Hassan.</b>
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	3.	<b>Mohamed Nabil El-Bahrawy.</b>
<b>Degree</b>	:	<b>Master.</b>
<b>Year</b>	:	<b>2014.</b>
<b>Abstract</b>	:	
<p>The purpose of this study was to evaluate the influence of NMES in conjunction with shoulder sling in decreasing the degree of incidence of shoulder subluxation in flaccid stage of vascular hemiplegic patients thirty recent hemiplegic stroke patients with shoulder muscle flaccidity were randomly assigned to either a control group or study group they had their first assessment within 12 days post stroke both groups received traditional exercise program and specially designed shoulder sling the study group received additional neuromuscular electrical stimulation (NMES) where two flaccid paralyzed shoulder muscles (supraspinatus and posterior fibers of deltoid muscles) were induced to contract repetitively up to one hour, three times week for six weeks assessment were made of shoulder subluxation, shoulder pain, and motor function recovery of the upper arm. the study group showed significant improvement in shoulder subluxation after the treatment period, but at the end of the follow - up period, there was no significant difference between the two groups. it was concluded that shoulder sling in conjunction with NMES training program, hemiplegic shoulder subluxation can be reduced significantly if such a program is implemented early after the patient suffer a stroke.</p>		
<b>Key words</b>	1.	<b>shoulder sling.</b>
	2.	<b>NMES.</b>
	3.	<b>Flaccidity.</b>
	4.	<b>shoulder subluxation.</b>
	5.	<b>stroke.</b>
<b>Arabic Title Page</b>	:	<b>تأثير التنبيه الكهربى العضلى العصبى ومعلقه الكتف معا لتقليل حدوث الخلع الجزئى للكتف فى مرضى السكتة الدماغية.</b>
<b>Library register number</b>	:	<b>820-821.</b>

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<b>Author</b>	:	<b>Waleed Talat Mansour.</b>
<b>Title</b>	:	<b>Low - intensity laser in conjunction with ultrasound therapy in treating carpal tunnel syndrome.</b>
<b>Dept.</b>	:	<b>Physical Therapy Department for Neuromuscular and Neurosurgical Disorder and its Surgery.</b>
<b>Supervisors</b>	1.	<b>Samiha Hafez Hassan.</b>
	2.	<b>Mohamed Sadek Badawey.</b>
	3.	<b>Usama Mohamed Rashad.</b>
<b>Degree</b>	:	<b>Master.</b>
<b>Year</b>	:	<b>2001.</b>
<b>Abstract</b>	:	
<p>The purpose of this study was is to find out the role of laser therapy in treating carpal tunnel syndrome. thirty female patients suffering from CTS participated in this study , their age ranged from 20-40 years with a mean aging of 30.83 (± 7.15)years . They were classified into two groups, each them consisted of 15 patients. Group (1) received IR laser, ten minutes for 5cm segments of the skin on the palmer surface of the hand. It started about 3cm from the proximal border of the flexor retinaculum, and then passed distally for 2cm across the retinaculum with lateral division over the tenor eminence. group (2) received IR laser ten minutes as group one followed by pulsed U.S. Model 2:8 was applied on the carpal tunnel area which expands from the wrist crease to the palmer region and covers an area of 3 to 5cm in length and 2 to 2.5cm in width, for 15 minutes. both groups received three sessions / week for four weeks. patients were assessed electro physiologically via (motor Sensory distal latencies and motor sensory conduction velocities)and clinically via (visual analogue scale, Semmes - Weinstein monofilament, and pinch dynamometer) before and after treatment program. the results showed that both groups were improved significantly after treatment, with no significant difference in between the two groups, regarding the clinical and electrophysiological parameters according to the statistical analysis, IR laser therapy is considered effective in treating CTS, and pulsed U.S. has no role in treating CTS .</p>		
<b>Key words</b>	1.	<b>Carpal tunnel syndrome.</b>
	2.	<b>IR laser therapy.</b>
	3.	<b>pulsed ultrasound.</b>
	4.	<b>median nerve.</b>
	5.	<b>nerve conduction velocity.</b>
<b>Arabic Title Page</b>	:	<b>علاج ضيق النفق الرسغي عن طريق الليزر ذو الجهد المنخفض والموجات فوق الصوتية معا.</b>
<b>Library register number</b>	:	<b>824-825.</b>