

**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
1999**

Author	:	Enas El Sayed Mohamed.
Title	:	Influence of laser on the regeneration rate in rabbit median nerve.
Dept.	:	Physical Therapy Department for Neuromuscular and Neurosurgical Disorder and its Surgery.
Supervisors	1.	Nahed Ahmed Salem.
	2.	Mohamed Helmy El-Batanouny.
	3.	Ann Ali Abd El Kader.
Degree	:	Master.
Year	:	1999.
Abstract	:	<p>This study aimed to investigate the effect of laser on the of laser on the regeneration rate in rabbit median nerve (30 rabbits were included) . They were divided into : laser and control groups. The laser group was subdivided into : He-Ne and He-Ne combined with IR lasers . Electrophysiological functions of the nerve were measured before and after treatment (the study period was 3 weeks). The results showed that laser accelerated the nerve regeneration rate and that He-Ne combined with IR lasers is effective the He-Ne laser.</p>
Key words	1.	Lasers.
	2.	Regeneration rate.
	3.	Rabbit median nerve.
	4.	Median nerve of rabbit.
Arabic Title Page	:	تأثير الليزر على معدل تجدد العصب الاوسط في الارنب.
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Author	:	Hayam Mahmoud Sayed Mahmoud.
Title	:	Assessment of the stretch reflex activities of elbow flexors in stroke patient.
Dept.	:	Physical Therapy Department for Neuromuscular and Neurosurgical Disorder and its Surgery.
Supervisors	1.	Naiema Hamdy Hassan.
	2.	Ann Ali Abd El Kader.
	3.	Mohamed Hany Gamal El-Dine.
Degree	:	Master.
Year	:	1999.
Abstract	:	
<p>The study was aimed to determine the severity of spasticity in the biceps muscle and compare it with the brachioradialis, also to determine whether spasticity develop earlier in the brachioradialis or in the biceps. Twenty flaccid hemiplegic subjects were assessed firstly through tendon jerk assessment and Muscular response to tapping was picked upon an EMG biofeed back apparatus-another twenty spastic hemiplegic subjects were assessed through muscle tone assessment their resistance to passive movement were picked up on a computerized polygraph apparatus . The obtained results concluded that in flaccid stage the biceps physic response recover earlier than the brachioradialis , however in a well developed spastic subjects , the brachioradialis tonic response was much higher than the biceps muscle . It is concluded that the brachioradialis hypertonia is responsible for the flexion attitude of spastic upper limb-the recommendation of the study were. Similar study should be conducted on another two antigravity muscles of the lower limbs , local inhibitory techniques should be applied on the brachioradialis muscle and measuring their effect on subject performance.</p>		
Key words	1.	stretch reflex.
	2.	elbow flexors.
	3.	stroke.
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