

## **Physical Therapy Department of Surgery**

**Master Degree  
2001**

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<b>Title</b>	:	<b>Therapeutic efficiency of gait and mechanical stretching in lower extremity.</b>
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<b>Degree</b>	:	<b>Master.</b>
<b>Year</b>	:	<b>2001.</b>
<b>Abstract</b>	:	
<p>The purpose of this study was to differentiate between two methods of stretch prolonged mechanical passive stretch and gait training stretch" in elongating gastrocnemius-soleus muscles and their effects on gait parameters and range of motion of both ankle dorsiflexion and knee extension. Thirty male volunteer subjects participated in this work and selected from Eelkaser Elane hospital with posterior leg burn. They had second degree of thermal injury since one week. the total body surface area ranged from 15-20 %.these patients were divided randomly into 3 groups: group(A):which received prolonged mechanical passive stretch and their traditional physiotherapy program "positioning and exercises group (B): which revived gait training stretch and their traditional' physiotherapy program , and group (C):which received only their physical therapy program .the patients treated twice / day , for five days / week , and for three weeks . a 16-m walkways , a tape measurement , and a stop watch were used to measure the gait parameters and standard goniometers were used to measure ankle dorsiflexion and knee extension. The results of this study revealed that, prolonged mechanical passive stretch is effective method to elongate gastrocnemius-soleus muscles.</p>		
<b>Key words</b>	1.	<b>Burn.</b>
	2.	<b>physical therapy.</b>
	3.	<b>mechanical stretch.</b>
	4.	<b>Stretch.</b>
<b>Arabic Title Page</b>	:	<b>الكفاءة العلاجية للمشى والاستطالة الميكانيكية فى حالات حروق الطرف السفلى.</b>
<b>Library register number</b>	:	<b>812-813.</b>

**ELECTRONIC GUIDE TO THESES APPROVED BY PHYSICAL  
THERAPY DEPARTMENT OF SURGERY  
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<b>Title</b>	:	<b>Effectiveness of high voltage pulsed current in the treatment of hand burn.</b>
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<b>Year</b>	:	<b>2001.</b>
<b>Abstract</b>	:	
<p>The purpose of this study was to determine the effectiveness of HVPC in the reduction of edema, improvement of ROM and grip strength in burned hand. Sixty patients were participated and divided into two main groups (group I who received HVPC, and group II who received placebo HVPC). Each group was subdivided into three groups according to the location of burn. The edema was measured by using volumeter, while the ROM measured by goniometer, and grip strength through using of dynamometer. The patients were received one session / day for fifteen days. The results revealed that HVPC is effective than placebo HVPC in the treatment of hand burn.</p>		
<b>Key words</b>	1.	<b>thermal burn.</b>
	2.	<b>Edema.</b>
	3.	<b>high voltage pulsed current.</b>
	4.	<b>hand function.</b>
	5.	<b>grip strength.</b>
<b>Arabic Title Page</b>	:	<b>فاعلية التيار المتردد العالي الفولتية في علاج حروق اليد.</b>
<b>Library register number</b>	:	<b>828-829.</b>

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