

Physical Therapy Department for Growth and Development Disorder in children and Its Surgery

Master Degree
1999

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| Author | : | Heba Mohamed Youssr Mohamed El-Basatiny. |
| Title | : | Effect of selected exercise program on reaching abilities and EMG profiles in spastic hemiparetic cerebral palsy children. |
| Dept. | : | Physical Therapy Department for Growth and Developmental Disorder in Children and its Surgery. |
| Supervisors | 1. | Amira Mohamed El Tohamy. |
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| Year | : | 1999. |
| Abstract | : | Children with spastic CP might be expected to have problems with components of reaching . So the selected exercise program of physical therapy may affect the reaching abilities of children with spastic hemiparetic cerebral palsy , which in turn may affect motor performance. Therefore the child could be habilitated to use his / her affected upper extremity in the performance of many daily functional tasks , while considering the components of reaching . The study was conducted on 21 spastic hemiparetic cerebral palsied children , from both sexes (10 boys & 11 girls). Their ages ranged from 4 to 8 years & the degree of spasticity was determined according to the modified ashworth scale to be within the range of 1/1+ & 2 grades . (Group B) also the study was conducted on 16 normal children , from both sexes , their ages ranged from 4 to 8 years . The reaching activities under investigation were studied by using EMG apparatus to study the amplitude of IEMG activities of the biceps , triceps & anterior deltoid muscles by the affected upper extremity & the time taken by those muscles during performance of the two motor tasks . Also by modified functional scale of reaching to detect the improvement in function after treatment during flexion & extension phases. The same procedures were carried out for 16 normal children . The procedures were conducted before the beginning & at the end of the treatment program (6 months) to compare between them . All of the twenty - one children received a selected exercise program of physical therapy 3 times / week for 6 month two hours / session aiming to improve the quality of reaching skills. From the obtained results , we can be concluded that , the selected exercise program of physical therapy can affect the functional performance of the affected upper extremity in spastic hemiparetic cerebral palsied children , so that they must be considered during habilitation of such children. |
| Key words | 1. | Exercises. |
| | 2. | EMG. |
| | 3. | Spastic hemiparetic. |
| | 4. | Cerebral palsy. |
| | 5. | Children. |
| Arabic Title Page | : | تأثير برنامج مختار من التمرينات العلاجية على قدرة توصيل اليد الى هدف معين و على صورة رسم العضلات الكهربائي عند الاطفال المصابين بالشلل النصفي نتيجة للاصابة بالشلل المخي . |
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PHYSICAL THERAPY DEPARTMENT FOR GROWTH AND
DEVELOPMENT DISORDER IN CHILDREN AND ITS SURGERY
PREPARED BY NERVEEN ABD EL SALAM ABD EL KADER AHMED**

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| Author | : | Hebatallah Mohamed Kamal Eldin Ibrahim. |
| Title | : | Effect of isokinetic training program on crouch gait in spastic diplegic cerebral palsied children. |
| Dept. | : | Physical Therapy Department for Growth and Developmental Disorder in Children and its Surgery. |
| Supervisors | 1. | Hoda Abd El-Azim El-Talawy. |
| | 2. | Amina Hendawy Salem |
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| Year | : | 1999. |
| Abstract | : | |
| <p>The purpose of this study was to evaluate the crouch gait changes in spastic diplegic cerebral palsy children following participation in a program of isokinetic training . fifteen diplegic children and thirty normal children , aged 6 years old to 10 years old participated in this study . The muscular strength and gait pattern were assessed before and three months after application of isokinetic training using isokinetic device (MERAC) and video taps . A statistically significant improvement was measured after patients participation in the therapeutic program of isokinetic training . From the obtained results in this study , it can be concluded that , isokinetic training is a beneficial therapeutic modality to improve gait pattern in spastic dilegeic cerebral palsy children.</p> | | |
| Key words | 1. | isokinetic training. |
| | 2. | Crouch gait. |
| | 3. | Spastic diplegic. |
| | 4. | Cerebral palsy. |
| | 5. | Children. |
| | 6. | gait. |
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