



## THE EFFECT OF A 12-WEEK PHYSIOTHERAPY PROGRAM WITH RESPIRATORY EXERCISES ON THE VITAL CAPACITY AND FORCED VITAL CAPACITY IN ADULT MALES AND FEMALES WITH CEREBR AL PALSY

http://www.firstlight.cn 2009-09-10

The purpose of this study was to determine if breathing exercises can improve specific respiratoryparameters in adult males and femal es with cerebral palsy. 18 adults (11males/7 females) with spastic cerebralpalsy consisted the experimental group and 18 (11males/7 female s) serving as control group took part in thestudy. A spirometer was used to measure vital capacity (VC) and the forced vital capacity (FV C) before and afterthe exercising protocol. The breathing exercises selected, emphasized strengthening of the muscles of inspirationand the emuscles of expiration. The study revealed that a breathing exercise program can increase the VC andFVC in people with cerebral palsy. The epre-test and post-test examined variables of both groups were withinnormal limits The VC of the experimental group was increased by 0.2 0 litres and this of FVC increased by 0,25litres after exercising for five to seven minutes each day for a period of twelve weeks. The mean in crease of the VC and FVC was 6% and 7% respectively over the baseline values. The control group showed no change in VCneither in FV C. The results support application and development of the treatment concept with respiratoryexercises and highlight that physical activity at it s simple status can improve function and quality of life in adults with cerebral palsy when added to standard care.

存档文本

我要入编 | 本站介绍 | 网站地图 | 京ICP证030426号 | 公司介绍 | 联系方式 | 我要投稿

北京雷速科技有限公司 版权所有 2003-2008 Email: leisun@firstlight.cn