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Quantify between the one minute walk test and physiological cost index in children with spastic little disease**Karthikeyan, Bhadri Narayan and Pradnya**

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Background & Aim: It is non-progressive neurological disorder mainly affecting human locomotors system. Test-retest reliability of one minute walk test and its correlation with physiological cost index in children with spastic little disease. The aims of the study is to find out test-retest reliability of one minute walk test in cerebral palsy and to find out the correlation between one minute walk test and physiological cost index. The study is based on the pre and post-test experimental study and correlation study of 60 spastic little disease children consisting of 44 males and 16 females.

Method: 60 subjects with age group 7-12 years were included. A signed informed consent has been taken from the children's parents before participation of the study. Reliability of one minute walk test was measured by measuring the distance covered by the children in one minute. After 30 min rest distance covered in one minute was measured again. PCI was calculated by taking the heart rate which was measured by using fingertip oximeter.

Results: Descriptive statistical analysis has been carried out in the present study. One minute walk test showed 0.86 good test retest reliability and correlation between one minute and PCI showed moderate negative correlation ($r=-0.321$, $p=0.012$)

Conclusion: The results showed good test-retest reliability of one minute walk test and significant moderate negative correlation between one minute walk test and physiological cost index.

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