

**Outcome of gross motor skills of cerebral palsy children through
community based rehabilitation in Bangladesh**

By

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ABSTRACT

Background: Gross motor skill including bed mobility, sitting, standing, walking, running, jumping, starting of children with cerebral palsy (CP) generally has been examined in terms of capability in community settings.

Purpose: The purpose of the study was to measure the outcome of gross motor skills after ten (10) sessions of physiotherapy intervention in community settings for the children with CP.

Method: The subjects were fourteen (14) children with CP, aged 2-12 years, who were conveniently selected after completing 10 sessions of physiotherapy intervention in community settings across Savar and Tetoljhora union at Savar Upazila in Bangladesh. The Functional Independence Measurement (FIM) scale was used as the measurement tool to find out the outcome of gross motor skills of children with CP.

Result: Within 14 samples there were all were positive ranks after calculating the difference of pretest and posttest values of overall outcome. According to Wilcoxon signed-ranks test statistics the sum of positive ranks were 78 but no negative ranks were present there. So it was counted as 0. Here, the smallest value 0 was counted as Wilcoxon T value. For N=14, the calculated T value was smaller than T_{critical} value in below 0.01 significant level. So the null hypothesis is rejected and alternative hypothesis is accepted, which means 10 sessions physiotherapy treatment is effective to improve gross motor skills of children with cerebral palsy.

Conclusion: This study provides evidence that regular physiotherapy session in community settings improve the gross motor skills in children with cerebral palsy which was more convenient in their nearby home. This study also provides baseline data for future research and useful clinical information for physical therapist using all the gross motor skills those were mentioned here as treatment for children with CP

Key words: Gross motor function, cerebral palsy, community based rehabilitation, physiotherapy.