

Efficacy of adeli suit therapy (AST) in children with spastic CP (4-8 year olds), with normal intelligence quotient (IQ) in IRAN

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Abstract

Objective: New approaches for the therapy and management of children with cerebral palsy (CP) have been emphasized in the past two decades. There is Adeli suit therapy (AST) as a new approach, therefore this study was performed for Assessment of efficacy of AST in children with spastic CP (4-8 year olds), with normal intelligence quotient (IQ)

Material and method: This study was Quasi-experimental and interventional with pre - post studies design. The study populations were 4-8 year olds CP spastic children in Tehran city. The reachable samples were referent to vali-e-asr rehabilitation foundation, among them 20 children acquired the entrance qualification for intervention.

The clinical tests were Wechsler intelligence scale for children revise (WISC) or Wechsler preschool and primary scale of intelligence (WPPSI) for evaluating of (IQ) and GMFM-66 (Gross Motor Function Measure) for evaluating gross motor performance. The results were analyzed by statistical tests such as Wilcoxon signed and Kuruskal-Wallis by use of soft ware SPSS version15.

Finding: average and standard deviation according to age and IQ includes (69/20, 17/08), (93, 2/47) respectively. The sample amount at I to IV GMFM levels were 3,5,4,8.

There are significant difference in gross motor functional abilities after using AST ($p < 0.01$).

Evaluation of the condition before and after each of the functional levels showed that the best result of using AST is seen on children at IV level. But evaluation comparing of motor performance levels showed no significant difference ($p > 0.1$).

Discussion and conclusion:

AST is a new and effective approach in children with CP and it was caused meaningful improvement in gross motor function of children with CP and this approach is useful for all children with CP in different levels of motor function.

Key words: cerebral palsy-child disabled- Adeli suit therapy

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