

عنوان مقاله:

Normative Values of Balance Tests in Neurological Assessment of Sports Related Concussions

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خلاصه مقاله:

Objectives: Deterioration in postural control mechanisms is termed postural instability and results increased postural sway and many laboratory techniques and instruments are characterized by a wide range of neurological signs and symptoms to the medical management. Thus the current study designed to assess the reliability of commonly used clinical measures of balance and determined normal values. Also, the second purpose was to evaluate the scrutiny of age, length weight and body mass index (BMI) effects on performing clinical balance tests. Methods: One hundred and thirty three participants (18-59 years), that have at least three time sports activity in one week, performed three timed tests including Time-up and Go (TUG), Tandem Gait (TG), and Walking on Balance Beam (WOBB) on firm surface. Results: Reliability data were produced for each tests of motor performance. We found that the first performance of three trials was slower, and the relationship between some factors and these battery tests were examined. Means(\pm SD) for each measure were averaged across three trials. Time to complete TG was 13.6 ± 1.1 s. TUG value was 6.9 ± 1.0 s and WOBB was 6.9 ± 1.0 s. Discussion: our results revealed that three clinical balance test batteries- TUG, TG and WOBB tests are the stability measures to assess the sports related concussion. Also, the results of current study showed that the time to perform these tests was slower than the other studies

کلمات کلیدی:

Normative value, Gait, Reliability, Sports related concussions

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