

Growth Motor Development Levels of Young Children in Cricket, Volleyball and Athletics

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Abstract

The purpose of this study was to identify the gross motor development level of primary school students playing three different sports (athletics, volleyball and cricket). A total of 90 subjects (athletics = 30, volleyball=30, cricket =30) participated in the study. Gross motor development tests Ulrich (2000) with a coefficient of 0.88-0.96 (Hardy, 2009) was conducted to assess the level of gross motor development of young athletes from different sports. There was a significant difference [F (2,87) = 108.2, p = 0.00] for gross motor development among young athletes for different sports (athletics, crickets, and volleyball). Post hoc analysis on the GMDQ mean scores showed cricket and volleyball players differed from athletics (p<0.01). Age of locomotor (AEL) scores for the three types of sports also shows significant differences [F (2,87)=86.6, p<0.00] for all three sports. For control object scores (AEM), there were significant differences [F (2,87) = 61.2 , p = 0.00] between volleyball and cricket (p <0.01) players. There are differences in gross motor development among young children participating in sports such as athletics, volleyball, and cricket.

Keywords: Motor Development, GMDQ, Volleyball Players

Introduction

Gross motor skills involve the use of large muscle groups in performing daily activities by individuals. Some examples of daily movements that involve gross motor skills are climbing, dancing, running, jumping and kicking. The acquisition of movement skills is very important for young children (Gallahue & Donnelly, 2003) because problems in motor development at an early age may result in less involvement in sports activities or games during childhood and adolescence (Hardy , 2009). Applicable motor development involves not only an increase regarding age and physical growth but refers to the physiology, motor system and nervous system. Motor development is a process that is continuous and lifelong starting in the womb until death (Gallahue & Ozmun, 1998). As a child grows, they acquired movement skills and increased physical competence. At this age period, development of basic movement skills children are sensitive (Gallahue & Donnelly, 2003).

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