North American Society for the Psychology of Sport and Physical Activity

San Diego, California

June 5-8, 2017

Contents

Historical Programming .................................................................4

Early Career Distinguished Scholars.................................................10

Outstanding Student Paper Awards .................................................10

Symposia ......................................................................................13

Free Communications: Verbal and Poster

Motor Development ........................................................................43

Motor Learning & Control...............................................................111

Sport and Exercise Psychology......................................................201
population is lacking. Our goal was to determine if, because of repeated exposure to diverse environmental challenges, “boarders” have developed distinctive postural control adaptations. We tested 9 experienced “boarders” (B: 22.00(1.58) y/o) and 6 controls (C: 22.00(2.10) y/o) using a dynamic posturography system to measure reactive and proactive balance responses. Limits of Stability (LOS), Adaptation (ADT), Motor Control (MCT), and Rhythmic Weight Shift (RWS) were tested. Results show that B demonstrate greater and more controlled backward excursion for LOS than C, approaching significance for End-Point Excursion Backward (EPE-B) EPE-B [F(1,14)=3.48,p=0.083] and Maximum Excursion Backward (MXE-B) [F(1,14)=3.79,p=0.072]. Also, emerging trends show that B used ~10% less force to overcome induced postural instability during ADT testing with increased weight distribution symmetry and lower response variability during MCT translations. Both groups showed similar strategies during RWS testing. Our preliminary results suggest that people who regularly participate in boarding sports develop, with experience, unique adaptations for postural control during reactive and proactive balance activities. These unique adaptations may provide valuable insights that facilitate development of effective, novel interventions for individuals with balance impairments.

Inter-team coordination tendencies of goal-scoring possessions in open play: an exploratory analysis of the 2014 FIFA World Cup winner team

Santos, Rodrigo, Universidade Federal de Vicosa; Duarte, Ricardo, University of Lisbon; Teoldo, Israel, Universidade Federal de Vicosa

Goal scoring is regarded as the ultimate indicator of offensive success in soccer. Hence, the investigations that analysed patterns that emerge from goal-scoring possessions frequently apply different approaches. The study aimed to examine the emergent inter-team coordination tendencies from goal-scoring possessions in open play of the 2014 FIFA World Cup winner team, through the analysis of teams' numerical relations within the effective play-space. We hypothesized that in goal-scoring possessions Germany generate more numerical uncertainty in sub-areas of play closer to opponents' goal. We analysed 6457 frames (unit of analysis) from 11 video sequences of goal-scoring possessions. Teams' numerical relations within sub-areas of play were examined in each offensive sequence through Shannon's entropy. The uncertainty of numerical relationships between the teams across sub-areas was also calculated. Entropy measures indicated that the uncertainty of teams' numerical relations was higher within the German Central Offensive (opponents' Central Defensive) sub-area (1.86 bits) in comparison with the remaining sub-areas of play. These results suggest that goal-scoring possessions in open play apparently generate different patterns of inter-team coordination when compared to analyses of an entire match, which might not be able to reveal important patterns that emerge from key moments.

Effects of External and Internal Focus of Attention on Dart Throwing

Sarhan, Aiman; Lai, Qin, Wayne State University

Previous studies have reported the advantages of adopting an external focus of attention over internal focus or no focus when learning new motor skills. However, how combined...