

Errata List

Title of Thesis: The effects of predisposition and direction on ankle sprain risk predictive factors during jump landing

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Note: Several errors that warranted correction were noticed while reviewing the manuscript prior to journal submission. Additionally, several passages in the methods section were found to be too closely similar to a previous journal article. As a result, corrections to these issues have been provided below.

Page 21 Lines 12/14/15: The word “disposition” should be changed to “predisposition”

Page 22, Line 2: “Internal” should be “Institutional”

Page 22, Line 6: The in-text citation “(Stephenson et al., 2018)” should be included at the end of “...self-selected jogging pace on a treadmill for five minutes.”

Page 22, Line 15-19: The mentioned lines should be replaced with,
“Upon landing with each foot on the force platforms (AMTI, Watertown, MA), the participants immediately jumped forward in the direction indicated by the activated LED light (right or left). This second jump was at an angle 60° from anterior, which was indicated by red tape on the floor. Additionally, the LED light had the possibility of switching directions at ground contact, which meant the participant had to change from the original preplanned direction towards the new indicated direction. The participants were instructed to minimize the time spent on the force platforms and maximize the distance of the second jump in the indicated direction (Stephenson *et al.*, 2018).”

Page 23, Line 2-5: The mentioned lines should be replaced with,
“For the data collection portion of the study, participants performed a block of 30 trials (10 CPD, 10 CPN, 5 IPD, 5 IPN). The participants had at least 30 seconds of rest in between each jump in order to minimize the risk of fatigue impacting results (Stephenson *et al.*, 2018). In order to reduce the chance of participants predicting trial order, the block was randomized via a Durstenfeld shuffle technique (Durstenfeld, 1964) that blinded both the participant and researcher to each trial (Stephenson *et al.*, 2018).”

Page 23, Lines 13-15: should be replaced with,

“This device continuously looped a customized program that monitored the vertical forces from each force platform, which allowed for the direction to switch at ground contact for the IPD and IPN conditions.”

Page 24, Lines 5-13: the text should be replaced with,

“In order to collect three-dimensional (3D) kinematics during the movement protocol, retro-reflective surface markers were placed at anatomical landmarks on the participant. To account for movement at the trunk and hip, retro-reflective markers were placed on the participant’s: left and right acromia, C7 vertebrae, anterior superior iliac spines, posterior superior iliac spines, sacrum, and greater trochanters. Instead of using a bilateral marker set for the lower limbs, a unilateral marker set was chosen due to previous landing research indicating that the dominant lower extremity limb is at a greater risk for ankle injury (Niu et al., 2011). As a result, retro-reflective markers were placed on the dominant leg at: lateral and anterior mid-thigh, medial and lateral femoral condyles, lateral and anterior mid-calf, medial and lateral malleolus, calcaneus, distal end of the 1st toe, and the base of the 5th metatarsal phalangeal joint (Dai et al., 2014; Stephenson et al., 2018). The participant self-indicated lower extremity dominance by identifying which leg they kick a ball with during sport activities.”

Page 24, Line 12: (Niu. et al., 2014) should be changed to (Niu et al., 2011).

*The following citations were added to the “References” section located on page 31, chapter 2 in accordance with the changes listed above:

Dai, B., Heinbaugh, E. M., Ning, X., & Zhu, Q. (2014). A resistance band increased internal hip abduction moments and gluteus medius activation during pre-landing and early-landing. *Journal of Biomechanics*, 47, 3674–3680.

Durstenfeld, R. (1964). Algorithm 235: Random permutation. *Communications of the ACM*, 7, 420.

Stephenson, M. L., & Gillette, J. C. (2017). Performance constraints do not alter landing in reactive jumps, *Abstracts of the 41st Annual Meeting of the American Society of Biomechanics*