Risk Factors for Concussion in Collegiate NCAA Division II Men's and Women's Soccer Athletes

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Recommended Citation
Beckler, Isaac S. and Weller, Michael S., "Risk Factors for Concussion in Collegiate NCAA Division II Men's and Women's Soccer Athletes" (2016). Kinesiology and Allied Health Faculty Publications. 51.
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RISK FACTORS FOR CONCUSSION IN COLLEGIATE NCAA DIVISION II MEN'S AND WOMEN'S SOCCER ATHLETES

Objective: To identify risk factors for concussion among men's and women's college soccer athletes, and determine the likelihood of concussion based on those risk factors.

Design and Setting: A short electronic survey was sent out to NCAA Division II universities in Ohio. Survey questions included demographics, soccer-related questions, and concussion-related questions.

Participants: Men's and women's soccer athletes from division II universities in Ohio participating in varsity or junior varsity soccer at their respective universities who were at least 18 years of age.

Intervention: An online survey.

Main Outcome Measurement: Number of concussions sustained.

Results: Of the concussions sustained while playing soccer, 29.4% of female participants sustaining a concussion compared to only 17.4% male participants. Concussions occurred during a competitive match in 8 of the 9 concussions compared to during a practice. There were 2.8 concussions per 100 years for strikers as well as midfielders, while no concussions occurred while playing defender. Varsity athletes showed a high incidence of concussions (33.3%) compared to JV/Reserve athletes in which there were no concussions while playing soccer (p = 0.018). Among players with a concussion history, 5 of the 12 (41.7%) sustained multiple concussions. The most common MOI was contact with another player's body (36.8%). Of the 40 respondents, there were only 3 players who wore mouth guards, and 1 who wore headgear. There was no significant difference between protective equipment worn and a diagnosis of concussion (p = .157).

Conclusions: Being a varsity athlete, playing in a game, having a previous history of concussion, and playing as a striker or midfielder were all risk factors for concussion.

Keywords: concussion, soccer, risk factors.