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Results: Sixty-one athletes (37.4%) incurred 90 musculoskeletal injuries. In our BMD *z* score model of \leq -1 SD, a history of oligomenorrhea/amenorrhea during the past year and low BMD (*z* score \leq -1 SD) were associated with the occurrence of musculoskeletal injury during the interscholastic sport season. In our BMD *z* score

menstrual history and demographic characteristics.

model of ≤ -2 SDs, disordered eating (Eating Disorder Examination Questionnaire score ≥ 4.0), a history of oligomenorrhea/amenorrhea during the past year, and a low BMD (*z* score ≤ -2 SDs) were associated with musculoskeletal injury occurrence.

Conclusions: These findings indicate that disordered eating, oligomenorrhea/amenorrhea, and low BMD were associated with musculoskeletal injuries in these female high school athletes. Programs designed to identify and prevent disordered eating and menstrual dysfunction and to increase bone mass in athletes may help to reduce musculoskeletal injuries.

Keywords: adolescents, female athletes, menstrual status, musculoskeletal injuries, sports

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