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Results: Most participants (78%) had no signs of generalized joint hypermobility. Only 11 volunteers (1.5%) had Beighton Scale scores of 4 or greater. Logistic regression analysis revealed a relationship between generalized joint hypermobility and a history of glenohumeral joint instability (P = .023). When sex and race were controlled, those with a total Beighton Scale score of ≥ 2 were nearly 2.5 times as likely (odds ratio = 2.48, 95% confidence interval = 1.19, 5.20, P =.016) to have reported a history of glenohumeral joint instability. A relationship was observed between sex and nearly all individual Beighton Scale items. Although women had higher total Beighton Scale scores than men, sex (P = .658) and race (P = .410) were not related to a history of glenohumeral joint instability when other variables in the model were controlled.

Conclusions: In these participants, generalized joint hypermobility and a history of glenohumeral joint instability were associated.

Keywords: military athletes, sex differences, joint injuries, shoulder injuries

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