Log In | Register | Help



Intervention(s): Volunteers were viewed by 2 raters while performing weighted shoulder flexion and abduction. The right and left sides were rated independently

Main Outcome Measure(s): Athletes judged as having either normal motion or obvious dyskinesis underwent 3-dimensional electromagnetic kinematic testing while performing the same movements. The kinematic data from both groups were compared via multifactor analysis of variance with post hoc testing using the least significant difference procedure. The relationship between symptoms and

test. Symptoms were assessed using the Penn Shoulder Score.

as normal, subtle dyskinesis, or obvious dyskinesis using the scapular dyskinesis

alerts to receive specific notifications about the topics you care most about and special offers

Register Now!

scapular dyskinesis was evaluated by odds ratios.

Results: Differences were found between the normal and obvious dyskinesis groups. Participants with obvious dyskinesis showed less scapular upward rotation (P < .001), less clavicular elevation (P < .001), and greater clavicular protraction (P = .044). The presence of shoulder symptoms was not different between the normal and obvious dyskinesis volunteers (odds ratio = 0.79, 95% confidence interval = 0.33, 1.89).

Conclusions: Shoulders visually judged as having dyskinesis showed distinct alterations in 3-dimensional scapular motion. However, the presence of scapular dyskinesis was not related to shoulder symptoms in athletes engaged in overhead sports.

Keywords: shoulder, upper extremity, kinematics, assessment

Angela R. Tate, PhD, PT, and Philip McClure, PhD, PT, contributed to conception and design; acquisition and analysis and interpretation of the data; and drafting, critical revision, and final approval of the article. Stephen Kareha, DPT, PT, ATC, CSCS, and Dominic Irwin, DPT, PT, contributed to acquisition and analysis and interpretation of the data and critical revision and final approval of the article. Mary F. Barbe, PhD, contributed to conception and design, analysis and interpretation of the data, and critical revision and final approval of the article.

Address correspondence to Philip McClure, PhD, PT, Arcadia University, Department of Physical Therapy, 450 South Easton Road, Glenside, PA 19038, email: mcclure@arcadia.edu

top 🛎

Copyright © 2010 Journal of Athletic Training. All Rights Reserved, Worldwid Allen Press, Inc. assists in the online publication of the *Journal of Athletic Trainin* Technology Partner - Atypon Systems, Inc.