Journal of **Athletic Training**

Home For Journal For Authors For Reviewers For Readers For Subscribers For Students Help

Quick Search

Home > Journal of Athletic Training > January/February 2010 > Risk Factors for Self-Reported Exercise-Related Leg Pain in High Schoo...

Advanced Searc

National Athletic Trainers' Association Links

NATA Home

Online Manuscript Submisson and Review

Advertising

Facts & Figures

Editor-in-Chief

◆Previous Article Volume 45, Issue 1 (January/February 2010) Next Article ▶

Add to Favorites Share Article & Export Citations

Track Citations Permissions

Full-text

PDF

Article Citation:

Mark F. Reinking, Tricia M. Austin, Ann M. Hayes (2010) Risk Factors for Self-Reported Exercise-Related Leg Pain in High School Cross-Country Athletes. Journal of Athletic Training: January/February 2010, Vol. 45, No. 1, pp. 51-57.

doi: 10.4085/1062-6050-45.1.51

Original Research

Risk Factors for Self-Reported Exercise-Related Leg Pain in High **School Cross-Country Athletes**

Mark F. Reinking, PhD, PT, ATC, SCS, Tricia M. Austin, PhD, PT, ATC, and Ann M. Hayes, DPT, PT, OCS

Department of Physical Therapy and Athletic Training, Saint Louis University, St Louis, MO

Abstract

Context: Prevention of exercise-related leg pain (ERLP) has not been successful because ERLP risk factors are not well known.

Objective: To determine the percentage of high school cross-country (XC) athletes who reported a history of ERLP in their running careers, to identify the percentage of athletes who reported an occurrence of ERLP during 1 XC season, and to investigate the association of selected factors (age, high school year, years of high school running, sex, ERLP history, body mass index [BMI], foot type, and training distance) and the occurrence of ERLP.

Design: Prospective cohort study.

Setting: Six local high schools.

Patients or Other Participants: One hundred twenty-five high school XC athletes (62 females, 63 males).

Main Outcome Measure(s): All athletes completed an initial ERLP questionnaire, and foot type was visually assessed. After the season, athletes were asked to complete a Web-based questionnaire regarding the seasonal occurrence of ERLP. Statistical analyses of differences (*t* tests) and associations (χ^2 , relative risk) were conducted.

Results: A total of 103 of the 125 athletes (82.4%) reported a history of ERLP, with 81 athletes reporting ERLP occurrence within the month preceding completion of the initial questionnaire. Bilateral medial leg pain was the most common ERLP presentation. More than half of the athletes (58.4%) with an ERLP history reported that the pain had interfered with XC participation. Ninety-three athletes responded to the postseason questionnaire, and 45 (48.0%) reported ERLP seasonal occurrence. Most athletes (97.8%) who experienced the seasonal occurrence of ERLP had a history of ERLP. No associations were noted between ERLP history or seasonal occurrence and age, high school year, years of high school running, sex,

Volume 45, Issue 1 (January/February 2010) < Previous Next >





Current Issue Available Issues

Journal Information

Print ISSN 1062-6050 eISSN 1938-162X Frequency Bimonthly:

> January/February March/April May/June July/August September/October November/December

Register for a Profile

Not Yet Registered?

Benefits of Registration Include:

- A Unique User Profile that will allow you to manage your current subscriptions (including online access)
- The ability to create favorites lists down to the article level
- The ability to customize email alerts to receive specific notifications about the topics you care most about and special offers

Register Now!

Journal Editors Editorial Board NATA Position Statements PubMed Central Search PubMed Contact Us **Related Articles Articles Citing this Article** Google Scholar Search for Other Articles By Author Mark F. Reinking Tricia M. Austin Ann M. Hayes Search in: Athletic Training Search

BMI, foot type, or training distance.

Conclusions: Both a history of ERLP and the seasonal occurrence of ERLP were common among these XC athletes. The only risk factor identified for ERLP season occurrence was ERLP history.

Keywords: shin splints, overuse injuries, running, injury risks

Address correspondence to Mark F. Reinking, PhD, PT, ATC, SCS, Department of Physical Therapy and Athletic Training, Saint Louis University, 3437 Caroline Mall, St Louis, MO 63104. Address e-mail to reinking@slu.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**