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Context: Nonradiographic tests to identify fractures rely on a patient's report of increased pain at the site of injury. These tests can be misleading and produce false-positive or false-negative results because of differences in pain tolerance. A

Objective: To determine if the use of a 128-Hz vibrating tuning fork and stethoscope were effective in identifying fractures.

undergone limited review in the athletic training literature.

painless technique using a tuning fork and stethoscope to detect fractures has

Design: Cross-sectional study.

Setting: University athletic training room or local orthopaedic center when fractures were suspected.

Patients or Other Participants: A total of 37 patients (19 males, 18 females) volunteered.

Main Outcome Measure(s): A diminished or absent sound arising from the injured bone as compared with the uninjured bone represented a positive sign for a fracture. Radiographs interpreted by the attending orthopaedic physician provided the standard for comparison of diagnostic findings.

Results: Sensitivity was 0.83 (10: 12), specificity was 0.80 (20: 25), positive likelihood ratio was 4.2, negative likelihood ratio was 0.21, and diagnostic accuracy was 81% (30: 37).

Conclusions: The tuning fork and stethoscope technique was an effective screening method for a variety of fractures.

Keywords: false-negative results, false-positive results, assessment, auscultation

Michael Bryan Moore, PhD, VATL, ATC, provided conception and design; acquisition and analysis and interpretation of the data; and drafting, critical

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revision, and final approval of the article.

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