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The effects of gender, age, injuries of ligaments, and ankle joint effusion on stress radiographs were statistically analyzed. RESULTS: Gender ( $p = 0.010$ ), age ( $p = 0.020$ ), and anterior talofibular ligament (ATFL) injury ( $p < 0.001$ ) were the factors significantly affecting tibiotalar tilt angle. Posterior talofibular ligament (PTFL) injury ( $p = 0.014$ ) was found to be the only significant factor affecting the anterior translation on the anterior drawer radiographs.

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Aug 17, 2013 · Pain could affect stress ankle radiograph by involuntary contraction of muscles around the ankle. Second, joint effusion was not evaluated quantitatively. We believe that the amount of joint effusion could affect the stress ankle radiograph results by distending the joint capsule, subsequent soft tissue tension, and indirect ankle pain.

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The relationship between the radiographic lateral ankle instability and the presence of OLT was statistically analyzed. Results: The presence of radiographic lateral ankle instability (tibiotalar tilt angle  $\geq 10$  degrees) showed an inverse relationship with that of OLT in the chi-squared test ( $P = .003$ ).

Author: Byeong Seop Park, Chin Youb Chung,... Publish Year: 2019

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Oct 06, 2016 · Talar tilt measurement of 6 degrees or greater on stress radiographs significantly predicted ligament incompetence ( $p = 0.0016$ ) using intra-operative stability as the gold standard. Sensitivity of the stress radiograph was found to be 90% with respect to identifying ligament incompetence; specificity was 61%.



Name of Journal: *World Journal of Orthopedics*

Manuscript NO: 64122

Manuscript Type: ORIGINAL ARTICLE

*Retrospective Study*

**Correlation of stress radiographs to injuries associated with lateral ankle instability**

Sy JW *et al.* Correlation of stress radiographs

Joshua Wellington Sy, Andrew J Lopez, Gregory Edward Lause, James Banks Deal,  
Michael B Lustik, Paul Mccafferty Ryan

**Abstract**

**BACKGROUND**

Stress radiographs have demonstrated superior efficacy in the evaluation of ankle

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Cited by: 1 Author: Natalie R. Danna, Rachel J. Shakked, St...

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### [Correlation of weightbearing radiographs and stability of ...](#)

<https://pubmed.ncbi.nlm.nih.gov/22381339>

Background: A positive external rotation stress test has been used as an indication for operative treatment of fractures of the lateral malleolus. The objective of the current study was to ascertain the results of a protocol initially treating stress positive ankle fractures nonoperatively and utilizing weightbearing radiographs in surgical decision making.

Cited by: 71 Author: C. Max Hoshino, Edward Kazuhisa Nomo...