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Manuscript Type: Systematic Reviews

 Allograft tissue irradiation and failure rate ¹ after anterior cruciate ligament reconstruction: A systematic review

Jesse Daşhe, Robert L Parisien, Antonio Çuşano, Asheesh Bedi, Xinning Li

Abstract

AIM: To determine whether irradiation of anterior cruciate ligament allograft is effective for sterility ¹ without compromising the graft structural integrity and failure rate.

METHODS: A literature search was conducted using PubMed, Cochrane, and Google. The following search terms were used: "Gamma irradiation AND anterior cruciate ligament AND allograft" with a return of 30 items. Filters used included: English language, years 1990-2015. There were 6 hits that were not reviewed, as there were only abstracts available. Another 5 hits were discarded, as they did not pertain to the topic of interest. There were 9 more articles that were excluded: three studies were performed on animals and 6 studies were meta-analyses. Therefore, a total of 10 articles were applicable to review.

RESULTS: The authors found that there is a delicate dosing crossover where gamma irradiation is both effective for sterility without catastrophically compromising the structural integrity of the graft. Of note, low dose irradiation is considered less than 2.0

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