

Resource Summary Report

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Protocol: A Scoping Review of the Biomechanics of the Autogenous Bone Graft Harvest from Proximal Tibia

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Protocol Information

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Group: Project Tibia

Summary: Background: The maxillofacial as well as orthopedic community have known proximal tibia bone as an abundant, reliable, and safe autogenous bone donor for reconstructive purposes. There have been reports of uncommon complications, mostly resolving seromas and hematomas, and rarely bone fractures following such procedures. Objectives: The authors aim to locate, review, and summarize the evidence concerning the biomechanics of the proximal tibial donor site following graft harvestation. Methods and analysis: Our study will follow the Preferred Reporting Items for Systematic reviews and Meta-Analyses extension for Scoping Reviews (PRISMA-ScR) Checklist. With the help of a librarian, we will design a search strategy using Boolean features through PubMed, Embase, and Google Scholar using terms like tibia, graft, mechanical, shear, etc, restricted to English language. We will upload the results in EndNote, eliminate the duplicates, and scan the titles for potential inclusion. We will export the chosen titles into Rayyan QCRI website for abstract review and selection of articles for full text review. A summary and a critical appraisal of the extracted evidence will follow. The study protocol is registered in Open Science Framework, <https://osf.io/mequ6>. Article summary: this study maps and summarizes the available evidence on the biomechanics of donor site following proximal tibial autogenous bone graft harvest. Strengths and limitations of this study The strength of this study relies on its systematic review of the evidence based on gold standard methods and protocol registrations. This study suggests there is need for further investigation into the biomechanics of proximal tibia autogenous bone harvest. This study is a scoping review and harbors the inherent limitations of such studies.

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