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Manuscript NO: 54973

Manuscript Type: SYSTEMATIC REVIEWS

² Tibial tubercle osteotomy in revision total knee arthroplasty: A systematic review

Chalidis B *et al.* TTO in revision total knee arthroplasty

Byron Chalidis, Dimitrios Kitridis, Panagiotis Givissis

Abstract

BACKGROUND

² Tibial tubercle osteotomy (TTO) is a well-established surgical technique to deal with a stiff knee in revision total knee arthroplasty (RTKA). However, several reports have described potential osteotomy-related complications such as non-union, tibial tubercle avulsion and fragmentation, and patellar-related issues.

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Tibial tubercle osteotomy (TTO) is a well-known technique for improving exposure in difficult **total knee arthroplasty** (TKA). We have performed a **review** of the literature concerning this procedure with the purpose of evaluation using the clinical results and complication rates in primary and **revision** TKA using TTO.



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Z. Sun, A. Patil, E. Song, et al.Comparison of quadriceps snip and tibial tubercle osteotomy in revision for infected total knee arthroplasty Int Orthop, 39 (5) (2015), p. 879 Google Scholar
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Publish Year: 2017

Tibial Tubercle Osteotomy to Aid Exposure for Revision ...
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Sep 28, 2016 · Tibial tubercle osteotomy to aid in exposure during revision total knee arthroplasty has been reported to yield favorable outcomes in the orthopaedic literature 7-18. Whiteside standardized the tibial tubercle osteotomy in difficult primary and revision total knee arthroplasty with good and reproducible outcomes 8 , 10 .
Cited by: 1Author: Alexander DeHaan, Sanjai Shukla, Martin A...
Publish Year: 2016

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https://bmcmusculoskeletdisord.biomedcentral.com/...
High tibial osteotomy is commonly performed in young patients with high activity demand. Several studies have reported outcome of HTO. The reported 10-year survival ranged from 79 to 97.6%. The reported 15-year survival ranged from 56 to 65.5%, resulting in the need for conversion to TKA. Primary TKA now provides satisfactory long-term outcome in terms of function and survival.

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Materials and methods We performed a systematic review of the available English literature, considering the outcomes and the complications of TTO. The combinations of keyword were "tibial tubercle osteotomy", "total knee arthroplasty", "total knee revision", ...
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Tibial tubercle osteotomy (TTO) is a recognized technique for improving exposure when performing total knee arthroplasty surgery. Forty-two patients were reviewed at a mean of 8 years after TTO. Preoperatively, mean extension was 8° ± 14°, mean flexion 74° ± 30°, and Knee Society score 73 ± 37.
Cited by: 61Author: Claire F. Young, Robert B. Bourne, Cecil H. ...
Publish Year: 2008

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Ramappa M, Anand S, Jennings A. Total knee replacement following high tibial osteotomy versus total knee replacement without high tibial osteotomy: a systematic review and meta analysis. Arch Orthop Trauma Surg. 2013; 133 (11):1587–1593. doi: 10.1007/s00402-013-1838-y. [Google Scholar]
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Ramappa M, Anand S, Jennings A. **Total knee replacement** following high **tibial osteotomy** versus **total knee replacement** without high **tibial osteotomy**: a **systematic review** and meta analysis. Arch Orthop Trauma Surg. 2013; 133 (11):1587–1593. doi: 10.1007/s00402-013-1838-y. [Google Scholar]

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Mar 06, 2020 · Higher risk of **revision** in **total knee arthroplasty** after high **tibial osteotomy**: a **systematic review** and updated meta-analysis. Chen X(1), Yang Z(2), Li H(3), Zhu S(1), Wang Y(1), Qian W(4). Author information: (1)Department of Orthopedic Surgery, Peking Union Medical College Hospital, Peking Union Medical College, Chinese Academy of Medical ...

Author: Xi Chen, Zhen Yang, Hairui Li, Shibai ...

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