

Name of journal: *World Journal of Orthopedics*

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

**Match Overview**

<b>1</b>	<b>Crossref</b> 146 words Dimitrios Kitridis, Maristella Francesca Saccomanno, Giulio Maccauro, Panagiotis Givissis, Byron Chalidis. "Augmented	5%
<b>2</b>	<b>Crossref</b> 89 words Richard A. Hocking. "Tibial Tubercle Osteotomy in Revision Total Knee Replacement", <i>Techniques in Knee Surgery</i> , 06/2	3%
<b>3</b>	<b>Crossref</b> 50 words Christian Zonnenberg, Lukas Lisowski, Michel van den Beke rom, Peter Nolte. "Tuberositas Osteotomy for Total Knee A...	2%
<b>4</b>	<b>Internet</b> 45 words crawled on 24-May-2014 <a href="http://archsix.com">archsix.com</a>	2%
<b>5</b>	<b>Internet</b> 15 words crawled on 30-Nov-2019 <a href="http://www.nursingcenter.com">www.nursingcenter.com</a>	1%
<b>6</b>	<b>Crossref</b> 14 words <i>The Knee Joint</i> , 2012.	1%
<b>7</b>	<b>Internet</b> 14 words crawled on 04-Oct-2018 <a href="http://jccponline.com">jccponline.com</a>	1%
<b>8</b>	<b>Internet</b> 9 words crawled on 28-Sep-2019 <a href="http://www.tandfonline.com">www.tandfonline.com</a>	<1%

Tibial Tubercle Osteotomy in Revision Total Knee Arthroplasty



31,000 Results

Any time ▾

**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.



Tuberositas osteotomy for total knee arthroplasty: a ...  
[www.ncbi.nlm.nih.gov/pubmedhealth/PMH0030255/](http://www.ncbi.nlm.nih.gov/pubmedhealth/PMH0030255/)

Was this helpful?



Higher risk of revision in total knee arthroplasty after ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7060637>

Mar 06, 2020 · Higher risk of revision in total knee arthroplasty after high tibial osteotomy: a systematic review and updated meta-analysis. ... This might be due to patella tendon contracture and that the distance between joint line to tibial tuberosity decreased after osteotomy. In our series, based on available data, 10 out of the 304 revised TKA after ...

Author: Xi Chen, Zhen Yang, Hairui Li, Shibai ... Publish Year: 2020



Tibial tubercle osteotomy in revision total knee arthroplasty



ALL IMAGES VIDEOS

30,800 Results Any time

### Total knee arthroplasty after high tibial osteotomy. A ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2720911>

Jul 20, 2009 · We describe a **systematic review** of non-randomized studies to analyze the effect of high **tibial osteotomy** on **total knee arthroplasty**. Methods A computerized search for relevant studies published up to September 2007 was performed in Medline and Embase using a search strategy that is highly sensitive to find nonrandomized studies.

**Cited by:** 60 **Author:** Tom M van Raaij, Max Reijman, Andrea D F...  
**Publish Year:** 2009

### Tibial Tubercle Osteotomy in Revision Knee Arthroplasty ...

<https://www.sciencedirect.com/science/article/pii/S0883540316305769>

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

**Cited by:** 4 **Author:** Shahid A. Punwar, Daniel P. Fick, Riaz J.K. ...  
**Publish Year:** 2017

### Tibial Tubercle Osteotomy to Aid Exposure for Revision ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6135613>

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:** 1 **Author:** Alexander DeHaan, Sanjai Shukla, Martin A...  
**Publish Year:** 2016

### Higher risk of revision in total knee arthroplasty after ...

<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.

### [PDF] Tibial tubercle osteotomy (TTO) in total knee arthroplasty ...

[www.cameraortopedico.it/wp-content/uploads/2018/01/...](http://www.cameraortopedico.it/wp-content/uploads/2018/01/...)

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**", ...

**File Size:** 881KB **Page Count:** 13

### Tibial Tubercle Osteotomy in Total Knee Arthroplasty ...

<https://www.sciencedirect.com/science/article/pii/S0883540307001350>

**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:** 61 **Author:** Claire F. Young, Robert B. Bourne, Cecil H. ...  
**Publish Year:** 2008

### Higher risk of revision in total knee arthroplasty after ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7060637>

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]

**Author:** Xi Chen, Zhen Yang, Hairui Li, Shibai Zh... **Publish Year:** 2020

### Total knee arthroplasty after high tibial osteotomy. A ...

<https://bmcmusculoskeletdisord.biomedcentral.com/...>

Jul 20, 2009 · Previous **osteotomy** may compromise subsequent **knee replacement**, but no guidelines considering **knee arthroplasty** after prior **osteotomy** have been developed. We describe a **systematic review** of non-randomized studies to analyze the effect of high **tibial osteotomy** on **total knee arthroplasty**. A computerized search for relevant studies published up to September 2007 was ...

**Cited by:** 60 **Author:** Tom M van Raaij, Max Reijman, Andrea D F...  
**Publish Year:** 2009

1 2 3 4 5 >

Chat with Bing

Oh! Let me guess what you want to know.

Say something...

### Search Tools

Turn off Hover Translation (关闭取词)





Tibial tubercle osteotomy in revision total knee arth



ALL IMAGES VIDEOS MAPS NEWS SHOPPING

34,300 Results Any time ▾

### [Total knee arthroplasty after high tibial osteotomy. A ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2720911>

Jul 20, 2009 · Previous **osteotomy** may compromise subsequent **knee replacement**, but no guidelines considering **knee arthroplasty** after **prior osteotomy** have been developed. We describe a **systematic review of non-randomized studies** to analyze the effect of **high tibial osteotomy on total knee arthroplasty**.

**Cited by:** 60      **Author:** Tom M van Raaij, Max Reijman, Andrea ...  
**Publish Year:** 2009

### [Higher risk of revision in total knee arthroplasty after ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7060637>

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]

**Author:** Xi Chen, Zhen Yang, Hairui Li, Shibai ...      **Publish Year:** 2020

### [Higher risk of revision in total knee arthroplasty after ...](#)

<https://www.ncbi.nlm.nih.gov/pubmed/32143608>

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 ...      **Publish Year:** 2020

### [\[PDF\] Tibial tubercle osteotomy \(TTO\) in total knee arthroplasty ...](#)

[www.cameraortopedico.it/wp-content/uploads/2018/01/...](http://www.cameraortopedico.it/wp-content/uploads/2018/01/...)

Materials and methods We performed a **systematic review** of the available English literature, the outcomes and the complications of TTO. The combinations of keyword were "tibial