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Manuscript Type: ORIGINAL ARTICLE

Retrospective Study

Proximal tibial osteotomy for genu varum: Radiological evaluation of deformity correction with a plate *vs* external fixator

HTO: Deformity correction with plate *vs* external fixator

Abstract

BACKGROUND

High tibial osteotomy (HTO) is a well-known procedure for the correction of knee varus. The purpose of this study was to compare the radiological results and accuracy of deformity correction performed using two different techniques: acute opening wedge correction using a plate and gradual correction with a monolateral external fixator.

Match Overview

- 1 Internet** 14 words
crawled on 30-Apr-2020
online.boneandjoint.org.uk <1%
- 2 Crossref** 13 words
"Osteotomy About the Knee", Springer Science and Business Media LLC, 2020 <1%
- 3 Crossref** 12 words
W. Kolb. "Opening-Wedge High Tibial Osteotomy with a Locked Low-Profile Plate", The Journal of Bone and Joint Surgery, <1%



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Computer-assisted osteotomies for genu varum deformity ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2899360>

Mar 21, 2009 · Young patient genu varum deformity can be corrected by **high tibial valgus osteotomy**, but it is not the only method. The indication is based on an accurate and reproducible radiological protocol including at least standing AP long-leg X-ray.

Cited by: 68

Author: Dominique Saragaglia, Numa Mercier, P...

Publish Year: 2010

Does the Surgical Correction of Tibial Torsion with Genu ...

<https://www.ncbi.nlm.nih.gov/pubmed/28646823>

In this study, 69 patients (138 limbs) underwent bilateral **proximal tibial osteotomy** for the **correction** of **genu varum**. Patients with simple coronal plane **deformity** (varus alone) were treated with either a monolateral **external fixator** or a hexapod frame. Those with concomitant **external tibial** torsion were treated with circular **external** fixation.

Cited by: 1

Author: Austin T. Fragomen, Austin T. Fragomen...

Publish Year: 2017

[PDF] Correction of Proximal Tibia Varus with External Fixation

<https://www.hss.edu/files/LL-Correction-of-Proximal-Tibia-Varus-with-External-Fixation.pdf>

correction at the **proximal tibia**? 2. How accurate is the medial **proximal tibial** angle (MPTA) **correction** at the **proximal tibia**? 3. What are the outcomes regarding Short Form-36 (SF-36) scores,rateofcomplications,andneedforkneereplacement? 4. Is our protocol for use of **external** fixation successful in treatment of **proximal tibial** varus **deformity**?

Cited by: 8

File Size: 385KB

Page Count: 10

Author: Kashif Ashfaq, Austin T. Fragomen, Jos...

Gradual correction of idiopathic genu varum deformity ...

Proximal tibial osteotomy for genu varum: Radiological evaluation c



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Gradual correction of idiopathic genu varum deformity ...

<https://www.ncbi.nlm.nih.gov/pubmed/22660974>

PURPOSE: **Proximal tibial osteotomy** is an effective treatment option for **genu varum deformity** among the many other described techniques. The purpose of this study is to evaluate the clinical and **radiological** outcomes and the complications in gradual **correction** of idiopathic **genu varum deformity** using Ilizarov frame.

[PDF] Biomechanical and Functional Improvements Gained by ...

<https://www.hss.edu/files/biomechanical-functional-improvements-proximal-tibia...>

bilateral **proximal tibial** osteotomies on knee biomechanics, **deformity correction**, and functional outcomes. Methods: This was a single-center, prospective study of eight limbs in four patients. Consecutive patients presenting with knee pain and bilateral **genu varum** originating from the **proximal tibia** were included. All patients underwent staged ...

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Biomechanical and Functional Improvements Gained by ...

<https://www.ncbi.nlm.nih.gov/pubmed/32015738>

Methods: This was a single-center, prospective study of eight limbs in four patients. Consecutive patients presenting with knee pain and bilateral **genu varum** originating from the **proximal tibia** were included. All patients underwent staged bilateral **proximal tibial** osteotomies with gradual **deformity correction** with an **external fixator**.

Cited by: 1

Author: Rachael J. Da Cunha, Rachael J. Da Cunha,...

Publish Year: 2020

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<https://www.ncbi.nlm.nih.gov/pubmed/22660974>

PURPOSE: **Proximal tibial osteotomy** is an effective treatment option for **genu varum deformity** among the many other described techniques. The purpose of this study is to evaluate the clinical and **radiological** outcomes and the complications in gradual **correction** of idiopathic **genu varum deformity** using Ilizarov frame.

Cited by: 2

Author: Young Eun Park, Sang Heon Song, Hyeok N...

Publish Year: 2013

[Biomechanical and Functional Improvements Gained by ...](#)

<https://pubmed.ncbi.nlm.nih.gov/32015738>

Consecutive patients presenting with knee pain and bilateral **genu varum** originating from the **proximal tibia** were included. All patients underwent staged bilateral **proximal tibial** osteotomies with gradual **deformity correction** with an **external fixator**. Subjects underwent a three-dimensional (3D) instrumented motion analysis during level walking.

Cited by: 1

Author: Rachael J. Da Cunha, Rachael J. Da Cunha,...

Publish Year: 2020

[Gradual correction of proximal tibia deformity for Blount ...](#)

<https://pubmed.ncbi.nlm.nih.gov/31530084>

Correction of Blount disease can be achieved by gradual **correction** using Ilizarov or TSF **external fixator** with low risk of soft tissue complication. Longer duration of frame application should be considered to reduce the risk of pathological fracture or subsequent deformation of the corrected bone.

Cited by: 3

Author: Aik Saw, Zi Hao Phang, Mohammed Khalid ...

Publish Year: 2019

[Gradual correction of proximal tibia deformity for Blount ...](#)

<https://journals.sagepub.com/doi/full/10.1177/2309499019873987>

Sep 17, 2019 · (b) Preoperative radiograph showing left **proximal tibia** varus angulation with mild compensatory valgus angulation of distal femur. Varus **deformity** of the left knee appeared to be contributed by bowing of the femur. (c) Picture of patient just before frame removal showing **correction** of **genu varus** and internal **tibia** torsion of left lower limb.

Cited by: 3

Author: Aik Saw, Zi Hao Phang, Mohammed Khalid ...

See results for

[Blount's disease \(Growth Disorder\)](#)

Blount's disease is a growth disorder of the tibia that causes the lower leg to angle inward, resembling a bowleg. It is also known as "tibia vara". It is ...