



[Back](#)

Functional outcome and quality of life following treatment for post-traumatic osteomyelitis of long bones

[Singapore Medical Journal](#) • Article • [Open Access](#) • 2022 • DOI: 10.11622/smedj.2020164

[Zayzan, Khairul Rizal](#)^a; [Yusof, Nazri Mohd](#)^b ; [Sulong, Ahmad Fadzli](#)^b; [Zakaria, Zamzuri](#)^b; [Ab Rahman, Jamalludin](#)^c

^a Department of Orthopaedics, Hospital Tengku Ampuan Najihah, Kuala Pilah, Negeri Sembilan, Malaysia

[Show all information](#)

5 63th percentile
Citations

0.75
FWCI

[View PDF](#) [Full text](#) [Export](#) [Save to list](#)

Document	Impact	Cited by (5)	References (16)	Similar documents
----------	--------	--------------	-----------------	-------------------

Abstract

INTRODUCTION The clinical outcomes and factors associated with treatment failure of post-traumatic osteomyelitis have been investigated in many studies. However, limb functionality and quality of life following treatment for this condition have not been thoroughly studied. **METHODS** This cross-sectional study included 47 patients with post-traumatic osteomyelitis of the lower limb. Functional outcome was assessed using the Lower Extremity Functional Score (LEFS), and quality of life was assessed using the validated Malay version of the Short Form-36 questionnaire version 2. **RESULTS** The mean follow-up period was 4.6 (range 2.3–9.5) years, and the median age of the patients was 44 years. Osteomyelitis was located in the tibia for 26 patients and in the femur for 21 patients. Osteomyelitis was consequent to internal infection in 38 patients and due to infected open fractures in nine patients. 42 (89.4%) patients had fracture union and control of infection. Bone defect was found to be a significant contributing factor for treatment failure ($p = 0.008$). The median LEFS for the success group was 65, compared to 49 for the failure group. Although the success group showed better scores with regard to quality of life, the difference between the two groups was not statistically significant. **CONCLUSION** Treatment of post-traumatic osteomyelitis of the lower limb had a high success rate. The presence of a bone defect was associated with treatment failure. Successfully treated patients had significantly better functional outcomes than in those in whom treatment failed. © 2022 Singapore Medical Association. All rights reserved.

Author keywords

femur; functional outcome; health-related quality of life; osteomyelitis; tibia

Indexed keywords

MeSH
Adult; Cross-Sectional Studies; Humans; Lower Extremity; Osteomyelitis; Quality of Life; Retrospective Studies; Tibial Fractures; Treatment Outcome

EMTREE medical terms
adult; antibiotic therapy; Article; bacterium culture; bone defect; bone pain; comorbidity; cross-sectional study; diabetes mellitus; female; follow up; human; hypertension; incidence; long bone; major clinical study; male; open fracture; osteomyelitis; physiology; quality of life; questionnaire; radiography; sample size; smoking; treatment failure; complication; lower limb; quality of life; retrospective study; tibia fracture; treatment outcome

Corresponding authors

Corresponding author N.M. Yusof

Affiliation Department of Orthopaedics, Traumatology and Rehabilitation, Faculty of Medicine, International Islamic University Malaysia, Jalan Hospital, Pahang, Kuantan, 25150, Malaysia

© Copyright 2023 Elsevier B.V., All rights reserved.

Abstract

Author keywords

Indexed keywords

Corresponding authors

About Scopus

What is Scopus

Content coverage

Scopus blog

Scopus API

Privacy matters

Language

日本語版を表示する

查看简体中文版本

查看繁體中文版本

Просмотр версии на русском языке

Customer Service

Help

Tutorials

Contact us

ELSEVIER

Terms and conditions Privacy policy Cookies settings

All content on this site: Copyright © 2025 Elsevier B.V., its licensors, and contributors. All rights are reserved, including those for text and data mining, AI training, and similar technologies. For all open access content, the relevant licensing terms apply. We use cookies to help provide and enhance our service and tailor content. By continuing, you agree to the use of cookies.

