

Journal of the American Podiatric Medical Association

Volume 93 Number 1 18-22 2003

Copyright © 2003 [American Podiatric Medical Association](#)

External Thermoregulation of Wounds Associated with Lower-Extremity Osteomyelitis

A Pilot Study

Jeffrey C. Karr, DPM, CWS, PA*

* Private practice, 1045 East Rd 540A, Lakeland, FL 33813.

This study was supported by an educational research grant from Augustine Medical Inc, Eden Prairie, Minnesota.

Abstract

External thermoregulation using noncontact normothermic wound therapy accelerates wound closure by second intention in areas of existing osteomyelitis before surgical excision compared with standard wound care. This pilot study consisted of two arms. The control arm received standard wound care, which resulted in complete ulcer healing at an average of 127 days. The treatment arm received noncontact normothermic wound therapy, which resulted in complete ulcer healing at an average of 59 days, or 54% faster than in the control arm. This new treatment allows the physician to decrease the rate of limb loss and recurrent osteomyelitis by decreasing the morbidity of bone reinfection through the wound bed. There have been no published studies or case presentations addressing thermoregulation in the management of wounds associated with osteomyelitis. Although noncontact normothermic wound therapy is not a direct treatment for osteomyelitis, this new treatment option results in significantly accelerated healing of wounds associated with osteomyelitis. (J Am Podiatr Med Assoc 93(1): 18-22, 2003)

This Article

- ▶ [Full Text](#)
- ▶ [Full Text \(PDF\)](#)
- ▶ [Alert me when this article is cited](#)
- ▶ [Alert me if a correction is posted](#)

Services

- ▶ [Similar articles in this journal](#)
- ▶ [Similar articles in PubMed](#)
- ▶ [Alert me to new issues of the journal](#)
- ▶ [Download to citation manager](#)

Citing Articles

- ▶ [Citing Articles via Google Scholar](#)

Google Scholar

- ▶ [Articles by Karr, J. C.](#)
- ▶ [Search for Related Content](#)

PubMed

- ▶ [PubMed Citation](#)
- ▶ [Articles by Karr, J. C.](#)