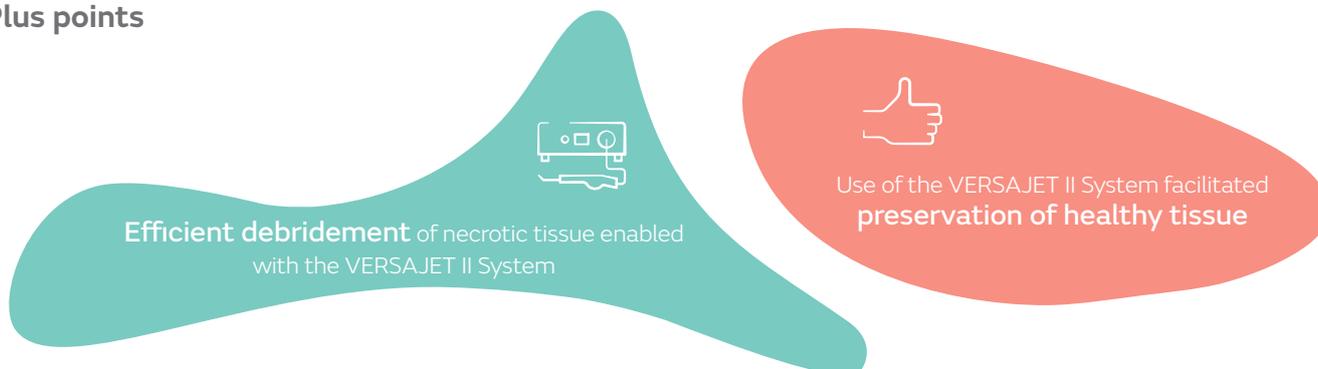


Importance of debridement using the VERSAJET[®] II Hydrosurgery System in treating a case of necrotising fasciitis of the foot

+ Plus points



Overview

- Case study of a 43-year-old woman with necrotising fasciitis of the foot requiring amputation and reconstructive surgery
 - Pain in the left foot at presentation with visible areas of black necrotic tissue
- Necrotising fasciitis was diagnosed due to osteomyelitis in the first to fifth metatarsal heads, with accumulation of gas and pus from the dorsum of the foot to the ankle
- Amputation was performed at the metatarsal shafts with resection of skin that could cause impaired perfusion due to infection
- Emergency debridement of necrotic soft tissue, the extensor hallucis brevis and longus, and the extensor digitorum brevis and longus was performed using the VERSAJET II System

Results

- Use of the VERSAJET II System for this patient enabled efficient removal of necrotic tissue (Figure)
- Wound irrigation to manage infection (coagulase-negative staphylococci and *Corynebacterium spp.*), combined with selective debridement using the VERSAJET II System, helped to preserve the remaining limb
- After reconstructive surgery with a multiperforator anterolateral thigh flap, there was no flap necrosis and the patient was rehabilitated without wound complications

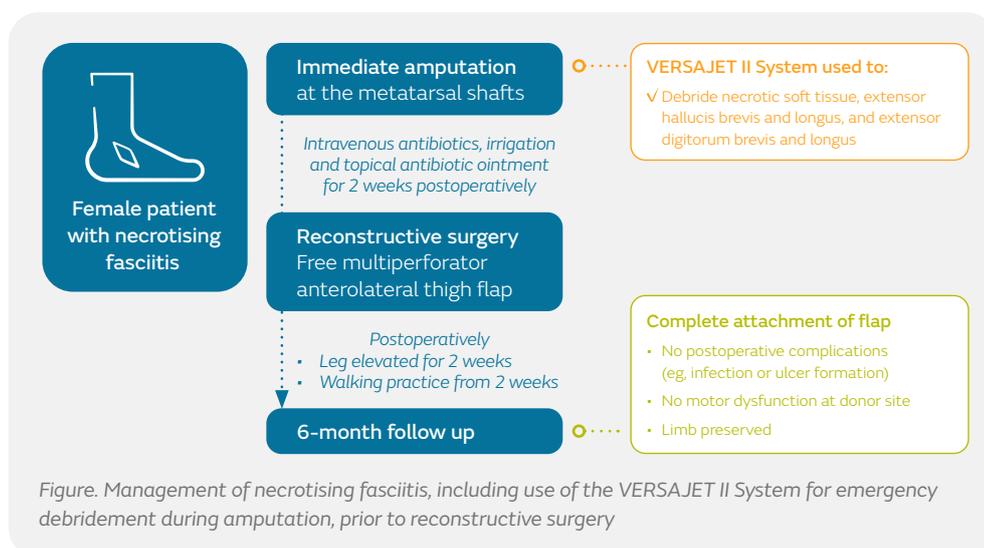


Figure. Management of necrotising fasciitis, including use of the VERSAJET II System for emergency debridement during amputation, prior to reconstructive surgery

Conclusions

Use of the VERSAJET II System for emergency debridement in a case of necrotising fasciitis of the foot enabled efficient removal of necrotic tissue in preparation for successful reconstructive surgery.

Citation

*Matsumine H, Fujimaki H, Takagi M, Shimizu M, Takeuchi M. Reconstruction of lower limb necrotizing fasciitis by hydrosurgical debridement and multiperforator anterolateral thigh flap. *Plast Reconstr Surg Glob Open*. 2020;8(9):e3150.

Available at: [Plastic and Reconstructive Surgery-Global Open](https://pubs.rsos.royalsocietypublishing.org/doi/10.1098/rsos.200111)

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