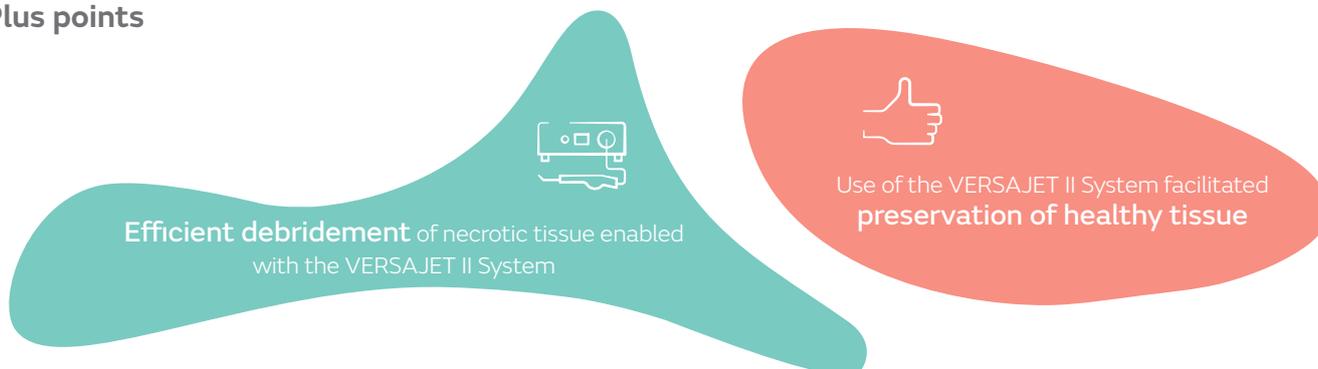


Importance of debridement using the VERSAJET[®] II Hydrosurgery System in treating a case of necrotising fasciitis of the foot

+ Plus points

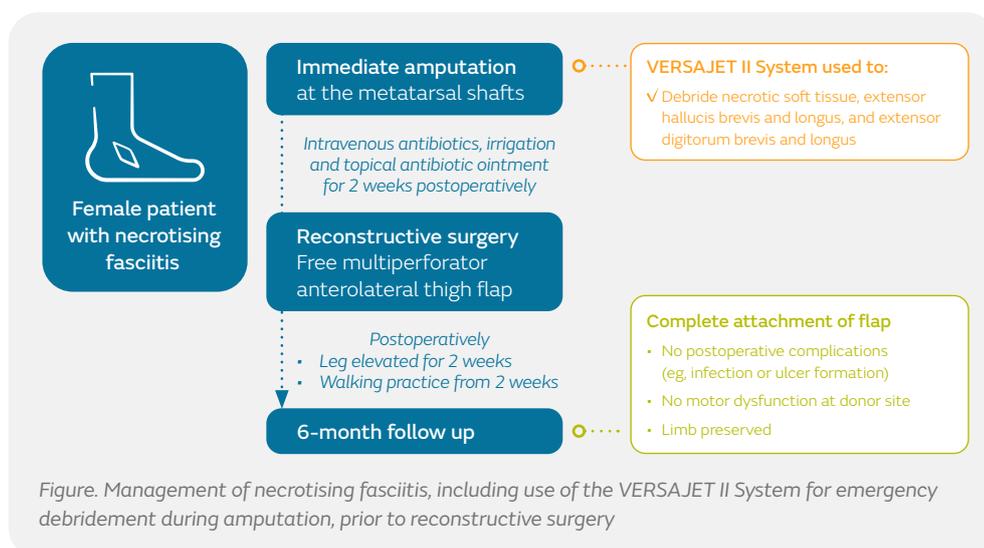


Overview

- 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



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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