Necrotizing fasciitis (NF) is an acute and rapidly spreading infection involving the skin and underlying soft tissues, and often results in significant loss of surrounding connective tissue, muscles, nerves, fat, and blood vessels. The goal for reconstruction remains to restore anatomy and function, while maintaining an acceptable aesthetic appearance.

57-year-old diabetic man with history of venous insufficiency and hypertension, presented with progressive worsening pain, cellulitis, and blistering with radiographic evidence of possible necrotizing fasciitis (Figure 1). The entire wound was excised (Figure 2) and he was treated with IV antibiotics, supportive care, serial wound wash out procedures and Negative Pressure Wound Therapy (NPWT) over several weeks. The wound (924cm²) was covered with Integra® Dermal Regeneration Template (Figure 3), carefully pieced to cover the entire defect. The edges and seams were secured with staples. Once the neodermis had fully formed, about 3.5 weeks after placement, the silicone was removed (Figure 4) and split thickness skin graft was applied (Figure 5). There was complete take of the skin graft and the patient was able to ambulate and resume his routine activities (Figure 6).
CLOSURE OF NECROTIZING FASCIITIS IN LOWER EXTREMITY

Brief Summary

Description
INTEGRA® Dermal Regeneration Template - INTEGRA® Meshed Dermal Regeneration Template

Indications
Integra Template is indicated for the postexcisional treatment of full-thickness and partial-thickness injuries where sufficient autograft is not available at the time of excision or not desirable due to the physiological condition of the patient. Integra Template is also indicated for use in reconstruction of postexcisional, full-thickness defects of the integument where there is, in the opinion of the treating surgeon, a potential benefit to the patient by improving the reconstructive outcome or decreasing their mortality/morbidity.

Contraindications
Use of Integra Template is contraindicated in patients with known hypersensitivity to bovine collagen, chondroitin sulfate derived from shark cartilage, or silicone materials. Integra Template should not be used on clinically diagnosed infected wounds. When using Integra Meshed Dermal Regeneration Template with Negative Pressure Wound Therapy, follow contraindications for the specific Negative Pressure Wound Therapy device utilized, such as in the presence of:
- Exposed arteries, veins, organs, Anastomotic sites, or nerves
- Malignancy in the wound
- Untreated osteomyelitis
- Untreated malnutrition
- Necrotic tissue (with or without eschar present)
- Non-enteric and unexplored fistulas
- Sensitivity to silver (if silver dressings are used)

Availability of these products might vary from a given country or region to another, as a result of specific local regulatory approval or clearance requirements for sale in such country or region.

Non contractual document. The manufacturer reserves the right, without prior notice, to modify the products in order to improve their quality.

WARNING: Applicable laws restrict these products to sale by or on the order of a physician.

Consult product labels and inserts for any indication, contraindications, hazards, warnings, precautions, and instructions for use.

All the medical devices mentioned on this document are CE marked according to European council directive 93/42/EEC on medical devices and its relatives, unless specifically identified as “NOT CE MARKED”. Products mentioned in this documents are CE class III.

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