

Patient Presentation

A 59-year-old woman presented in May 2018 with delayed tracheal injury and perforation with abscess after total thyroidectomy for cancer. She returned to the OR for drainage and muscle flap complicated by dehisced surgical site infection. Comorbidities included: **papillary thyroid adenocarcinoma**

Failed Therapy

- ▶ Failed surgical repair with muscle flap

Procedure & Treatment

- ▶ Tracheal perforation closed with muscle flap
- ▶ Cultures: Group A Streptococcus Pyogenes
- ▶ Initial Thyroidectomy 5/21/2018
- ▶ Debridement and muscle flap 5/29/2018
- ▶ Microllyte applied at weekly evaluations
- ▶ Non-excisional debridement during weekly evaluations
- ▶ Secondary dressing with PICO vacuum
- ▶ No additional dressing changes at home
- ▶ No oral or topical antibiotics were administered

Clinical Outcome

By the first follow-up at Day 7, the wound had closed by ~90% based on wound volume (Figure 1B). Nine days later, the wound had closed by 98% (Figure 1C) and Microllyte was applied. At the 4-week follow-up, the wound was fully closed. The wound remained healed and patient retains only a small scar in the site of the original wound.

Conclusion

Faster and more complete closure of a chronically infected wound was achieved by application of Microllyte than was achievable with other failed therapies. This patient had multiple risk factors for postoperative surgical site infection including poor glycemic control, polymicrobial infection, and ongoing tobacco abuse. Microllyte applied weekly was associated with a positive outcome and this patient was able to resume a normal lifestyle, including attending her own wedding without the need for a bandage on her neck.



Figure 1: Accelerated wound healing in infected, malignant, and radiated chronic plateaued wound after total thyroidectomy. Microllyte was applied to wound 9 days post-surgery (A). After one week (B), the wound had closed by 90% (volume). Nine days later Microllyte was applied again, at which point the wound was 98% closed (C). Complete wound closure was achieved with 28 days (D). Four months post operatively, only a small amount of scarring was visible (E). Microllyte was reapplied at each evaluation. All secondary dressings were standard per clinician preference and wound characteristics.

Microlyte is a unique product for the management of all open wounds, including the most challenging acute, chronic, and surgical wounds.

Ordering Information

Reference	Product Size	Configuration
91001	2" x 2" 5 cm x 5 cm	5 units/box
91002	4" x 4" 10cm x 10cm	5 units/box

For more information or to place an order, please contact

PHONE (USA): 608-237-1590

FAX: 608-729-7183

WEB: microlytematrix.com



Indications for use

Under the supervision of a healthcare professional, Microlyte may be used for the management of:

- ▶ Wounds
- ▶ Partial and full thickness wounds including pressure ulcers, venous stasis ulcers, diabetic ulcers, first and second-degree burns, abrasions and lacerations, donor sites and surgical wounds
- ▶ May be used over debrided and grafted partial thickness wounds

Contraindications

Do not use on individuals who are sensitive to silver or who have had an allergic reaction to Microlyte or one of its components.

Precautions for use

- ▶ Warning: Frequent or prolonged use of this product may result in permanent discoloration of skin.
- ▶ Warning: Avoid use with iodophore containing products that may reduce the effectiveness of silver in the dressing.
- ▶ The wound should be inspected during cover dressing changes. Consult a healthcare professional if you see (a) signs of infection (increased pain, increased redness, wound drainage), (b) bleeding, (c) a change in wound color and/or odor, (d) irritation (increased redness and/or inflammation), (e) maceration (skin whitening), (f) hypergranulation (excessive tissue formation), (g) sensitivity (allergic reaction), (h) no signs of healing.
- ▶ Secondary cover dressings should be used as stated in the "Directions for Use" section.
- ▶ Microlyte should not be used with other wound care products other than those listed in the "Directions for Use" section without first consulting a healthcare professional.

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 all indications, contraindications, warnings, precautions, and instructions for use.