A frail but alert woman with end-stage dementia, peripheral arterial disease, peripheral venous disease, a nutrition deficit and the patient was placed on systemic steroids and the patient was on systemic antibiotics. The fringe broke open with poor capillary refill and an absent pedal pulse. Dressings were needed to prevent any infection from becoming systemic and to contain the wound exudate. Borderline polymeric membrane dressings conform well to heels and have a semipermeable membrane to protect wounds from contamination. They contain glycerol, a surfactant, and a super-absorbent starch. Polymeric membrane dressings’ ingredients draw and concentrate natural healing components and reduce wound pain by inhibiting nociceptor activity at the wound site. Glycerol from the dressings can be converted to energy at the wound site, can slow healing, was not performed. Polymeric membrane dressings keep the deep structures moist. The wound has divided into two areas and the structures are mostly covered. The wound closed without further antibiotics in only ten weeks and remained closed. The patient was placed in hospice during the wound treatment. Dressing changes were very quick and used very few supplies because no manual wound bed cleansing was needed.

### RESULTS

- **May 4:** 3 cm x 6 cm
- **May 25:** 2 cm x 3 cm
- **June 4:** 1.2 cm x 0.5 cm
- **June 11:** 1.5 cm x 0.5 cm
- **June 15:** 1.2 cm x 0.5 cm
- **June 25:** 0.9 cm x 0.5 cm
- **July 5:** Almost closed
- **July 11:** Closed in 10 weeks

### CONCLUSION

Consistent use of polymeric membrane dressings resulted in this wound closing, which was far beyond the expectations of the patient’s caregivers. Because no wound bed cleansing was needed, the delicate new structures in the wound bed were not disturbed and the wound was not cooled at dressing changes. Since the patient had very little circulation to the area and was nutritionally compromised, glycerol from the dressings may have been metabolized in the wound bed to provide energy and some of the cell components needed to close the wound.

### METHODOLOGY