Management of Hard-to-Heal Wounds: Real World Implementation of Community-Based Health Care Recommendations Emily Greenstein, APRN, CNP, CWON-AP, FACCWS

Background

- Once a wound develops, patients often present to community-based health care providers for wound management.
- However, these providers may not be specialized in wound care.
- Additionally, some wounds may stall and not follow a normal healing trajectory, resulting in a hard-to-heal wound (HTHW).
- A panel meeting was held to develop recommendations and a simplified approach to wound care for community-based health care providers.
- These recommendations included using clinical signs to identify a HTHW, assessing the wound and periwound condition, and choosing optimal wound care products and methods based on patient and wound characteristics.¹

Purpose

• Real-world implementation of these panel recommendations is described in 3 cases.

Methods

- Patient and wound assessments were performed according to HTHW panel recommendations.¹
- Patient history, wound tissue, infection/inflammation, moisture/ exudate, wound edge, wound progression, and social considerations were assessed (**Figure 1**).²



Figure 1. Flow chart of patient and wound assessment categories

Presented at Symposium on Advanced Wound Care Spring/Wound Healing Society, May 14-18, 2024, Orlando, FL NOTE: Specific indications, contraindications, warnings, precautions and safety information exist for these products and therapies. Please consult a clinician and product instructions for use prior to application. Rx only.

Case 1. An 84-year-old male presented with a degloving injury to the **Case 3.** A 70-year-old male presented with a diabetic foot ulcer on left anterior hand. The patient had a medical history of hypertension, the dorsal aspect of the left foot. Patient medical history included type 2 diabetes, liver cirrhosis, arthritis, and congestive heart failure. hypertension and type 2 diabetes. The wound was treated with a Antibiotics were initiated. The wound was treated with a collagen hydrogel dressing with gauze covering. After 14 days, wound care dressing covered with a non-adherent dressing. was transitioned to a collagen dressing with a secondary bordered foam dressing.



Figure 2A. Day 0



Figure 2B. Day 7



Figure 2C. Day 26

Box 1. Case 1 HTHW assessment

- **Tissue:** Full-thickness skin tear
- Infection/Inflammation: None
- Moisture/Exudate: Minimal drainage, no edema
- Wound Edge: Periwound skin intact, wound edge intact
- **Repair/Regeneration:** Wound healing progressed
- Social Determinants: None

Case 2. A 33-year-old male presented with pyoderma gangrenosum ulcers on the left leg. Previous medical history included Crohn's Disease, anemia, and use of immunosuppression medication. The wound was treated with a hydrogel dressing, gauze covering, and compression therapy. However, wound healing was not progressing. A wound biopsy was performed and the patient was referred to a wound care specialist.



Figure 3A. Day 0



Figure 3B. Day 30



Figure 3C. Day 60



Figure 3D. Day 90

Box 2. Case 2 HTHW assessment

- **Tissue:** Progressing eschar/granulation
- Infection/Inflammation: Some inflammation
- **Moisture/Exudate:** Minimal drainage, trace edema
- Wound Edge: Periwound skin intact, wound edge intact
- Repair/Regeneration: No wound healing progression after 2 weeks
- Social Determinants: None

Representative Cases



Figure 4A. Day 0



Figure 4B. Day 14



Figure 4C. Day 30



Figure 4D. Day 60



Figure 4E. Day 90

Box 3. Case 3 HTHW assessment

- Tissue: Eschar Infection/Inflammation: Signs of infection and redness Moisture/Exudate: Minimal drainage, no edema
- **Wound Edge:** Periwound skin intact, wound edge intact
- **Repair/Regeneration:** Wound healing progressed
- Social Determinants: Uncontrolled diabetes

Methods (Cont'd)

- Dressings were selected based on the wound environment, with more absorbent dressings being used for patients with higher levels of exudate.
- Dressings were changed twice per week.
- Wound healing was monitored with modifications to the wound care plan as needed.

Results

- Three males (33-84 years old) with 3 wounds (degloving injury, pyoderma gangrenosum, and diabetic foot ulcer) were treated (**Boxes 1-3**, **Figures 2-4**).
- Previous medical history included hypertension, diabetes, congestive heart failure, immunosuppressive medication, and anemia.
- All 3 patients were at risk for developing a HTHW based on their medical history and complexity of the wound.
- Wound management included collagen dressings, hydrogel dressings and compression therapy, or hydrogel dressings for 14 days followed by use of collagen dressings.
- All wounds healed 26-90 days after presentation.

Conclusions

- Following the HTHW panel recommendations, all 3 wounds were assessed, and a care plan was created based on the needs of the patient and the wound.
- Early recognition of the potential for HTHW status and a patientcentric approach resulted in all 3 wounds fully healing within 90 days of presentation.
- These positive clinical outcomes support the use of a simplified approach to wound care that may be easily implemented in the community health care environment.

References

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- 2. Atkin L, Bucko Z, Conde Montero E, et al. J Wound Care. 2019;23(Sup3a):S1-S50. doi:10.12968/jowc.2019.28.Sup3a.S1.

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