ACCELERATED HEALING AND IMPROVED PATIENT OUTCOMES WITH ON101 TOPICAL CREAM AS AN ADJUNCT TO NPWT IN DIABETIC FOOT ULCERS: REAL-WORLD STUDY

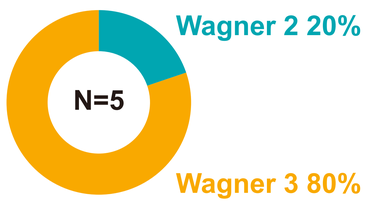
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Aim

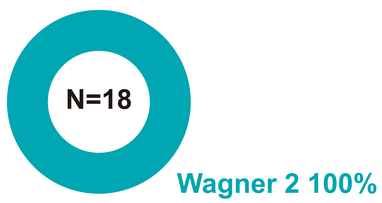
Diabetic foot ulcers (DFUs) often require negative pressure wound therapy (NPWT) to reduce wound size and prepare the wound bed for closure or grafting, yet many ulcers fail to achieve timely closure. This study evaluated whether combining ON101 topical cream with NPWT improves healing outcomes compared with standard of care (SOC) plus NPWT.

Method

- **Study & Design:** Retrospective, observational study
- **Sample Size:** Total 23 patients with IDSA Grade 2 infected DFUs
- **Wagner Grade:**



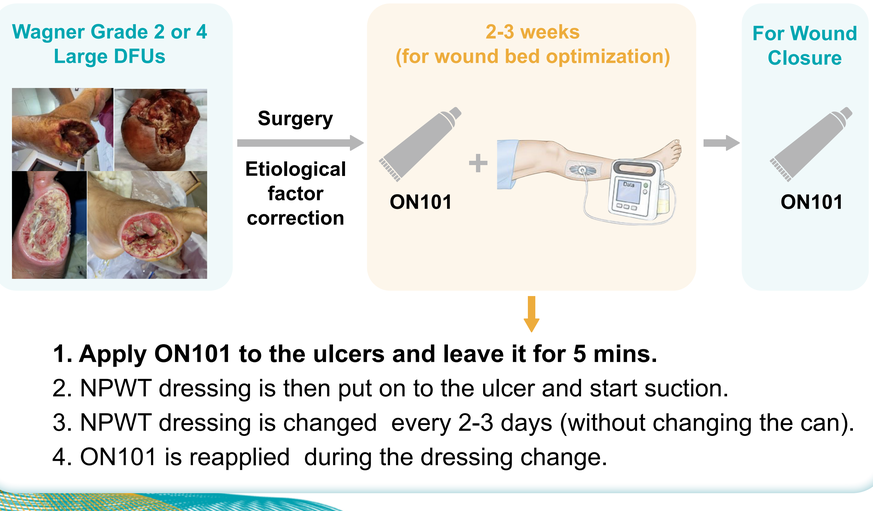
ON101 + NPWT



SOC+NPWT

- **Ulcer Size (Mean):** 60±49.4 cm^2 (ON101+NPWT) vs. 22.2±20.6 cm^2 (SOC+NPWT)
- **Clinical Outcomes:**
  - Healing rate
  - Time to closure
  - NPWT duration
  - Amputation rate
  - Rehospitalization rate
  - Mortality

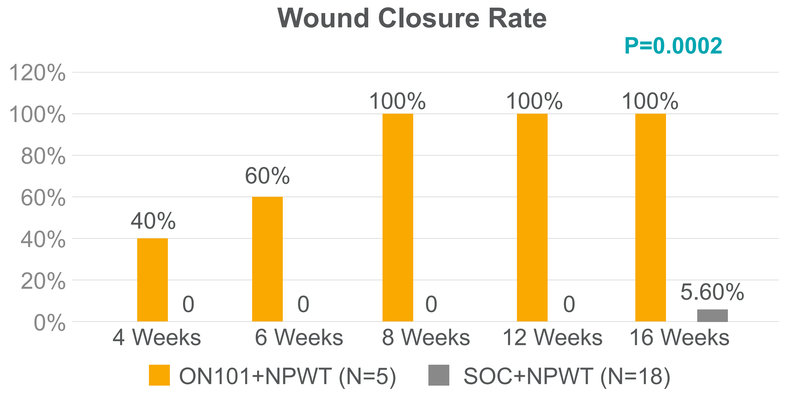
Treatment Protocol (ON101+NPWT group)

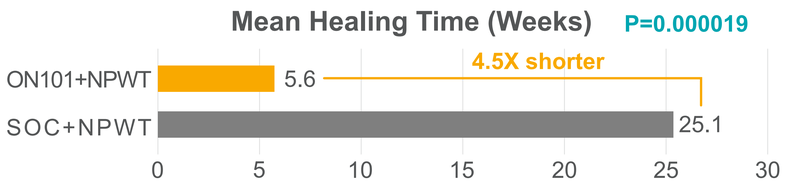


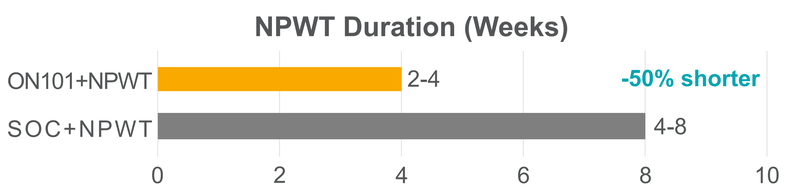
1. **Apply ON101 to the ulcers and leave it for 5 mins.**
2. NPWT dressing is then put on to the ulcer and start suction.
3. NPWT dressing is changed every 2-3 days (without changing the can).
4. ON101 is reapplied during the dressing change.



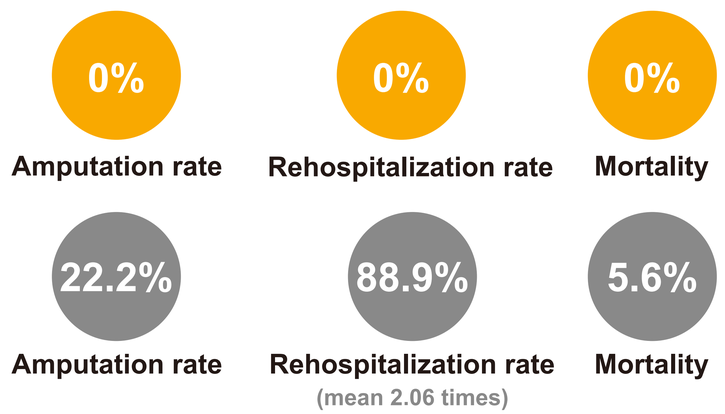
Results / Discussion:







1-Year Follow-Up



Conclusion:

In DFU patients receiving NPWT, adding ON101 enhances granulation and epithelialization, supporting faster healing, shorter treatment duration, and lower risks of amputation and morbidity. As an adjunct to NPWT, ON101 may streamline wound recovery, lessen healthcare burden, and improve patient quality of life, highlighting its clinical and economic values in advanced wound care.

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