

EFFICACY OF A NOVEL DAILY-USE HYDROCOLLOID PAD ON WOUND HEALING:

FINDINGS OF A 16-DAY, SINGLE-CENTER, RANDOMIZED, CONTROLLED CLINICAL STUDY

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Innovation:

- BAND-AID® Brand PROHEAL™ an adhesive bandage with hydrocolloid pad designed to be removed daily without disrupting wound bed.
- Clinical model to objectively evaluate wound dressings healing performance on uniform wound model that best mimic real-life minor wound using volunteer's own control sites.

Current Problem Addressed:

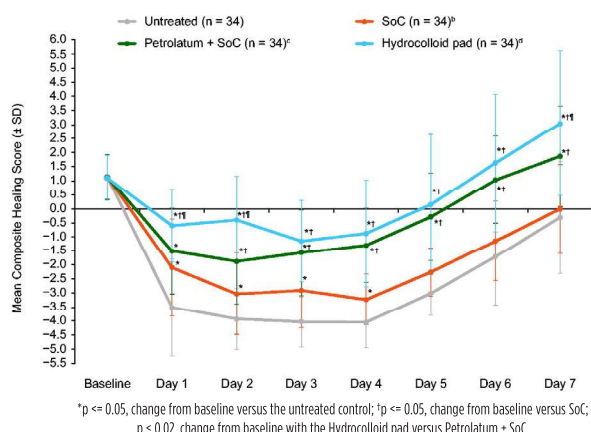
- Consumer habit of replacing bandage daily, hydrocolloid dressings are generally for multi-day use.
- Lack of consistency in wound modeling for minor wound clinical evaluation.

Summary of key outcomes

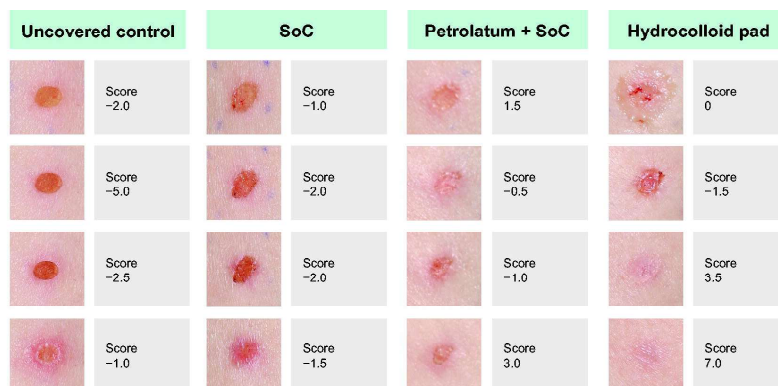
- Hydrocolloid pad superior ($p \leq 0.05$) to standard of care bandage (SoC) on Days 1–7 for composite healing.
- Hydrocolloid pad superior ($p \leq 0.05$) to uncovered control on Days 1–7.
- Hydrocolloid pad superior ($p \leq 0.05$) to petrolatum + SoC on Days 1, 2, and 7; numerically better on Days 3–6.
- Hydrocolloid pad and petrolatum + SoC significantly reduced ($p < 0.05$) crusting/scabbing vs control and SoC (Days 1–7) and improved ($p < 0.05$) epithelial confluence, smoothness, and general appearance vs control; both also outperformed ($p < 0.05$) SoC on multiple days for these parameters.



Composite healing score shows superior performance of Hydrocolloid pad



Wound healing images from representative subject show Hydrocolloid pad's better healing outcome



Clinical Implications

- One-step, daily-change hydrocolloid bandage enables moist, occlusive healing with low adhesion - supports common daily dressing behavior.
- Faster and more complete healing vs petrolatum + SoC and vs SoC alone in this model.

Model Limitation:

- Single-center, healthy adults (Fitzpatrick I–III); 6 mm laser-induced wounds—generalizability to larger or comorbid wounds may be limited.
- Not a head-to-head vs other marketed hydrocolloids.
- Consider caution in patients with diabetes or poor circulation.

Citation: Du-Soriano J, Friscia D, Kirsner RS. Efficacy of a Novel Daily-Use Hydrocolloid Pad on Wound Healing. *Adv Wound Care*. 2025. DOI: 10.1177/21621918251405806 | ClinicalTrials.gov: NCT05045183