



Bismuth Subgallate/Borneol (Suile™) Results in Less Scarring



than A Topical Antimicrobial: Follow up analysis of a randomized clinical trial.

Thomas E. Serena MD FACS, Houston Cutshaw PA-S, Laurie Jonda PA-S, Katie Flower PA-S,

Jackie Baloga PA-S, Greg Hartle PA-S, Rachel Gerber PA-S, Jesse Steffl PA-S, Matthew Nedresky PA-S

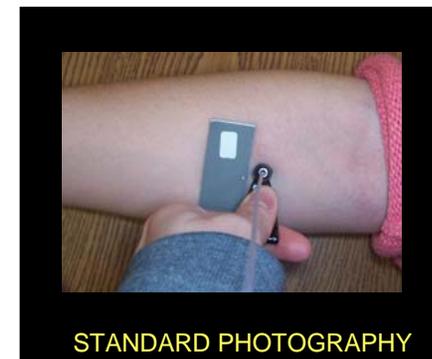
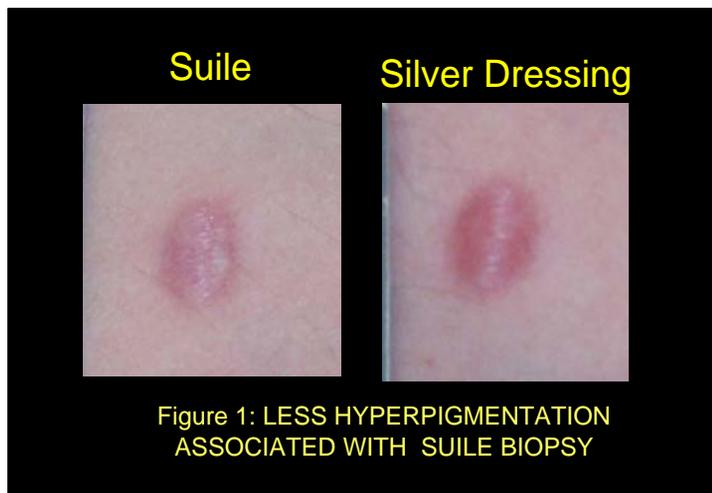
Penn North Centers for Advanced Wound Care™ and NewBridge Medical Research™, Warren Pennsylvania

Gannon University, Erie Pennsylvania



Background

Bismuth subgallate/Borneol, Suile™ has been shown to be superior to Bacitracin in the human forearm biopsy model for acute wound healing.¹ It subsequently demonstrated a trend toward more rapid healing when compared to a commonly used topical antimicrobial dressing.² Anecdotal reports, mostly from Asia, suggest that, in addition to promoting healing, the use of Suile™ reduces scarring in acute and chronic wounds. In the United States, Suile™ is a device approved for marketing by the FDA for partial thickness wounds, 1st and 2nd degree burns, donor sites and abrasions. In our clinics Suile™ has also been shown to be effective in skin tears, the dermatitis secondary to antibiotic associated diarrhea and stage I and II pressure ulcers.



Discussion

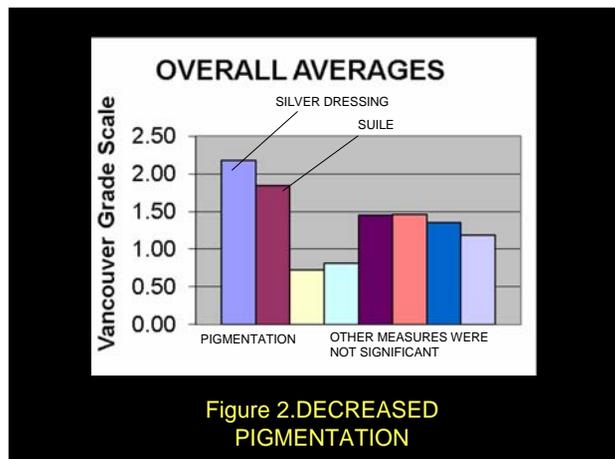
The results suggest that Suile decreases the hyperpigmentation associated with scarring in acute wound healing. Moreover, the lack of difference in height and pliability assessments could have been the result of the difficulty in evaluating these parameters using photographs. In conclusion, Suile should be considered in the treatment of wounds and burns in which scarring and cosmeses are a concern.

Clinical Approach

Twenty-two healthy volunteers who participated in a randomized blinded study comparing Suile to a topical antimicrobial (Acticoat 3®, Smith and Nephew, London, England) were photographed one year after healing of their forearm biopsy wounds. The high quality digital photographs were then evaluated by medical and non-medical reviewers using the Vancouver burn scale.

Results

There was significantly less hyperpigmentation in the Suile vs. non-Suile treated biopsies ($p < 0.05$). There was no difference in pliability, height or vascularity between the two groups. There was also no difference in assessment between the medically trained and lay evaluators.



1. Bismuth Subgallate/Borneol (Suile) Is Superior to Bacitracin in the Human Forearm Biopsy Model for Acute Wound Healing. Thomas Serena, Laura Parnell, Carrie Knox, Julia Vargo, Amanda Oliver, Sarah Merry, Andrew Klugh, Nicole Bubar, Neil Anderson, Lynn Rieman, Wade Walnoha, Holly Smith, Samantha Rice. *Adv Skin Wound Care*. 2007 Sep; 20 (9):485-492 17762217