

Comparison of SilverIon[®] Dressing to Xeroform[™] Gauze in the Treatment of Skin Graft Donor Site Wounds

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Introduction

Availability of autogenous skin is central in management of burn wounds. Larger burns require frequent re-harvesting of donor autograft to achieve complete wound coverage.



- Xeroform gauze (Tyco Healthcare Group, Mansfield, MA) is the standard skin graft donor site dressing at many burn centers although many products have been proposed as an improvement on this basic method.
- Silverlon (Argentum, Willowbrook, IL) is a silver impregnated wound dressing which is widely used in the treatment of partial thickness burns. We hypothesized that Silverlon would improve wound healing and decrease pain when compared to Xeroform.

Methods

- We conducted a prospective, randomized, patient controlled study comparing the rate of re-epithelielization, pain, and cost of donor site wounds treated with Xeroform or Silverlon.
- From December 2005 March 2007, all patients admitted to the USAISR Burn Unit were screened for enrollment.
- **Exclusion Criteria**
 - Age < 18 years
 - TBSA > 30% burn
 - Critical illness requiring mechanical ventilation or vasoactive 3 medications
 - Premorbid major medical problems or medications affecting wound 4 healing
 - Unavailability of two anterior, symmetrically located donor sites, not previously harvested
 - Inability of subject to consent 6.
 - 7. Pregnancy
- Eligible patients had symmetrically paired donor sites harvested by the same surgeon using a standardized technique.
- Subjects received both the control (Xeroform) and study (Silverlon) dressings, randomized to each donor site.
- Wounds were assessed daily for healing, pain, and inflammation.
- Additional data was collected on cost and nursing time, outpatient scar quality, and cosmetic appearance by blinded comparison of digital photographs.
- Wilcoxon Signed-Rank Test or Paired T Test were used to measure differences for each endpoint in the two groups.

Age	26.6 years (20-
Gender	All male subje
%TBSA Burn	8.5% (2-20%
Military	12 subjects



FI	g. Ja. Material Cost	Cost (per cm2)*
	Silverlon	\$0.073
	Xeroform	\$0.0013
	 * Institutional cost * No difference in amount 	unt of each dressing



