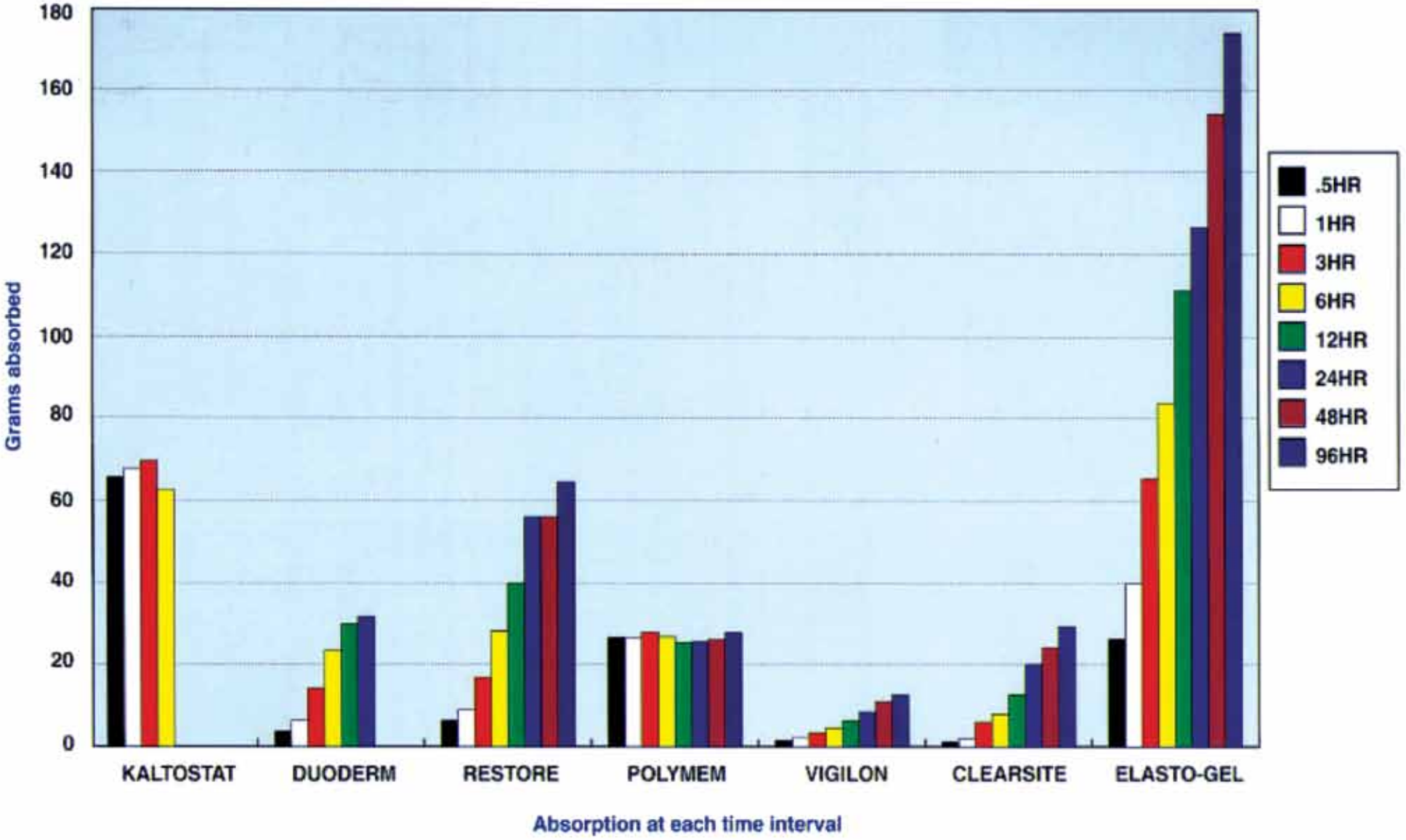
Independent Laboratory Study

Absorption over 96 Hours (4 days)



SOUTHWEST TECHNOLOGIES TECHNICAL INFORMATION 1.1

Study Title: Saline Absorption Properties Of Various Wound Dressings

Conducted By: NAmSA, 2261 Tracy Road, Northwood, OH 43619

Dressings Tested:

Company	Product	Lot Number
ConvaTec	DuoDerm® 4x4	96027961
ConvaTec	Kaltostat® 4x4	W94467
Hollister	Restore™ 4x4	5025
Ferris	Polymem® 3.5x3.5	15394A1
Bard	Vigilon® 4x4	2K79493
Conmed	ClearSite® 3.5x3.5	ED 272
Southwest Technologies	Elasto-Gel™ 4x4	041996A

Study Summary:

Seven wound dressing sheets were evaluated for absorption properties by measuring the absorption of 0.9% saline solution at room temperature. Various time intervals were examined starting after half hour and continuing through 96 hours. All but three of the seven dressings continued to absorb saline over the entire testing period of 96 hours.

DuoDerm® started dissolving after 24 hours of incubation, so no further measurement could be made for the remainder test period.

Kaltostat® began to dissolve after 6 hours of incubation and had totally dissolved by 12 hours of incubation. Therefore, no further measurements could be made for this test article.

Polymem® appeared to reach peak absorption at 0.5 hour.

Elasto-Gel™ Results:

❖ At one hour, Elasto-Gel™ absorbed significantly more 0.9% saline than any other dressing (hydrocolloid, membrane, hydrogel) except Kaltostat® (alginate) which was to be expected.
❖ At three hours Elasto-Gel™ absorbed similar amounts of 0.9% saline than Kaltostat® (alginate) but significantly more than all other dressings evaluated.
❖ By six hours, Elasto-Gel™ was the only dressing continuing to absorb significant amounts of 0.9% saline solution:

Time Intervals	Grams Absorbed
6 hours	85.0
12 hours	111.2
24 hours	126.1
36 hours	156.4
96 hours	173.0

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