

Zip™ Surgical Skin Closure

Suture-like outcomes at the speed of staples^{1,3}



Suture-like outcomes... at the speed of staples

Clinical Benefits

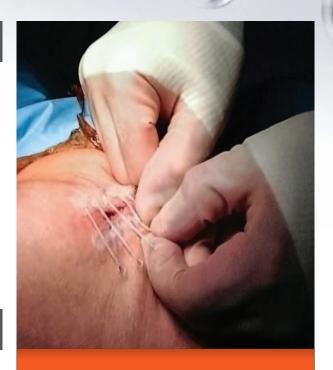
...vs. Suture, Glue and Staples

- Faster save 5-10 minutes per incision1
- No skin piercing, reduced SSI, needle stick risk
- Designed to isolate wound from patient movement for reduced edema and faster healing
- May eliminate staple removal visit
- Improved cosmesis no track marks
- · Comfortable conforms to body

Economic Benefits

- Save \$538 in labor costs per procedure (OR time, staff, materials, cost of removal) vs. staples and glue⁴
- Reduced Surgical Site Infection (SSI) risk: \$25,546 mean cost associated with a single incidence of SSI⁵
- Reduced Needle Stick Injury risk: \$596 average treatment cost for staff needle stick injury⁶





Device: Rapid, non-invasive skin

closure modality

Replaces: Skin sutures, staples

and glue

Procedures: Include pacemaker/ICD,

total hip arthroplasty, spine, skin excision, laceration, total shoulder

artrhoplasty

Incisions: Zip[™] 15 - up to 15cm

(can be cut to 5 or 10cm)

Zip[™] 8 - up to 8cm (can be reduced in length down to 2cm)

Wear duration: Up to 14 days (removed

by peeling from skin)

Regulatory: FDA Class 1 Exempt

device

Application Examples

Pacemaker Implant



Excision of Melanoma



Spine 2-Level PLIF



Total Hip Arthroplasty



Combine Devices for Longer Incisions

Total Shoulder Arthroplastytwo Zip™ 8 devices combined for 14 cm incision



Peel and place on incision



Adjust closure tension



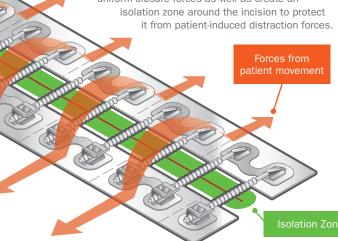
3 Apply fenestrated cover



PRELOC[™] Technology

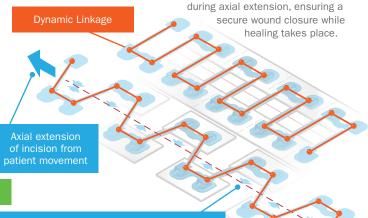
Incision Isolation Zone The force distribution system is designed to provide

uniform closure forces as well as create an isolation zone around the incision to protect



Dynamic Compression

The integrated linkage in the Zip™ 8 is designed to provide dynamic compression during axial incision extension. Normal patient movement can sometimes cause the incision to extend along its length. The Zip™ 8 gently compresses the incision



Gentle compression of incision during axial extension

Pre-Clinical Results

Pre-clinical studies were conducted to evaluate device performance as compared to traditional closure techniques such as sutures. Devices were removed at two weeks post-op and resulting scars were evaluated at six weeks by a blinded panel of four board-certified plastic surgeons using the Cosmetic Visual Analog Scale (CVAS) and Wound Evaluation Scale (WES). Average results for two subjects are shown in the following table.

Conclusion

Results suggest that cosmetic outcomes using ZipLine technology are at least equivalent to suture closure.

Surgical Incision Closure		
Closure Mechanism	WES Avg	CVAS Avg
Suture control, n=4	5.58	84
ZipLine, n=8	5.95	93

PRODUCT	CATALOG NUMBER	PACKAGING
Zip™ 8 - Surgical Skin Closure For closure of incisions up to 8cm in length	PS1080	Box of 10 sterile devices
Zip™ 15 - Surgical Skin Closure For closure of incisions up to 15cm in length	PS1050	Box of 10 sterile devices

For more information or to schedule a demonstration, please contact:

1-888-326-8999 www.ziplinemedical.com customerservice@ziplinemedical.com

- 1 ZipLine devices are designed to provide cosmesis equivalent to sutures with closure speed comparable to skin staples. Cosmetic outcome is a function of many variables and individual results may vary.
- 2 Pepicello J, Yavorek H. Five year experience with tape closure of abdominal wounds. Surg Gynecol Obstet. 1989 Oct;169(4):310-4.
- 4 Shippert, RD. A Study of Time-Dependent Operating Room Fees and How to Save \$100,000 by Using Time-Saving Products. The American Journal of Cosmetic Surgery. 2005; 22(1):25-34.
- 5 Stone PW, Larson E, Kawar LN. Systematic review of economic analyses of health care-associated infections. Am. J. Infec. Control. 2005; 33(9):501-509.
- 6 Leigh, J, et.al. Costs of needlestick injuries and subsequent hepatitis and HIV infection. Cur Med Res Opin. 2007 23(9):2093-2105.



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