

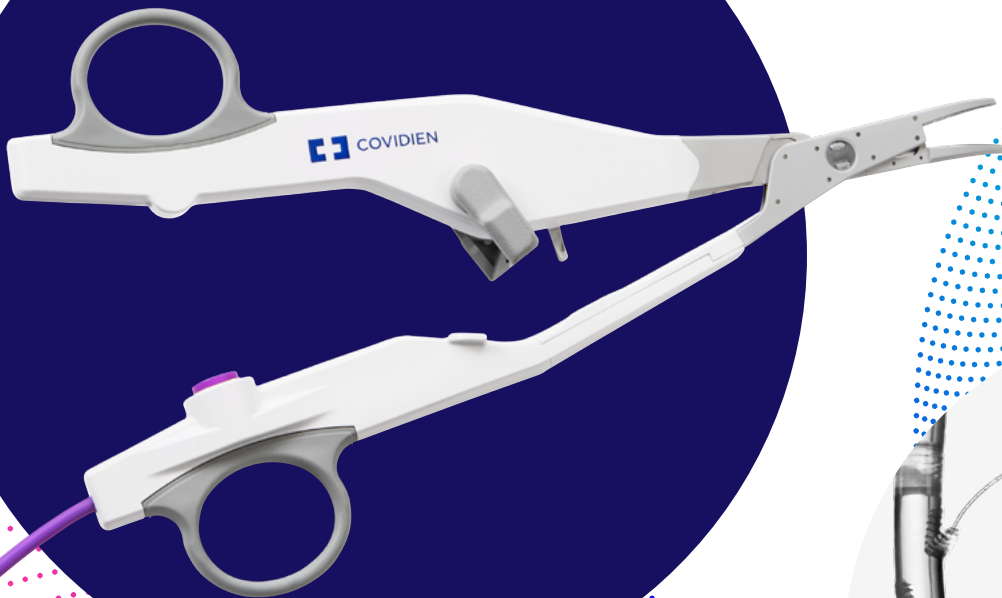


Dissection to closure: precision and healing in harmony.

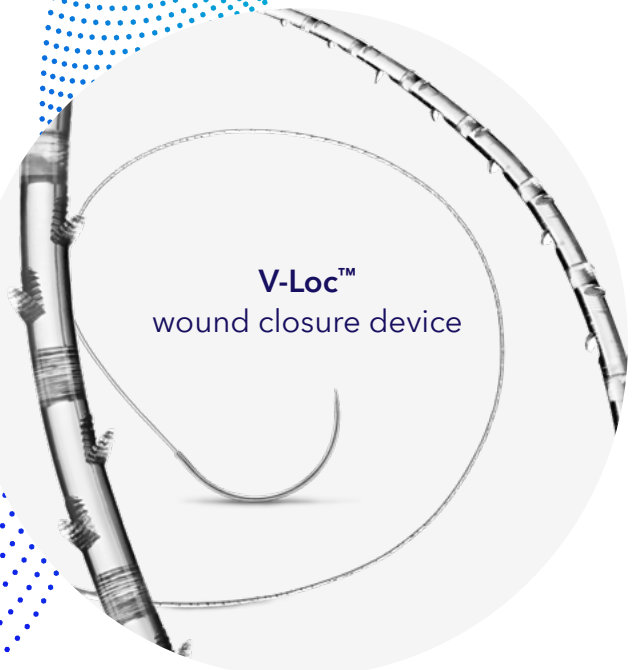


Two proven technologies.
One seamless solution to enhance
breast surgery outcomes.

LigaSure™ Exact
dissector



V-Loc™
wound closure device



LigaSure™ Exact dissector

The LigaSure™ Exact dissector offers:

- Precise blunt dissection†,1
- Cool jaw temperature profile‡,2
- Just 1 mm thermal spread³ protecting nearby structures like nerves and the axillary vein

The LigaSure™ Exact dissector may provide clinical and economic benefits to your breast procedures

- Over 50% reduction in drainage volume^{§,4}
- 2-day reduction in drain removal time^{∞,4}
- Over 50% seroma reduction^{§,4}
- Nearly 90% lymphedema reduction^{§,5}
- Nearly 4 fewer days of hospital stay^{Δ,4}

[Learn more](#)



V-Loc™ wound closure device

The V-Loc™ wound closure device:

- Eliminates knots and the potential risks of knot-related complications^{¶,6,7}
- Distributes tension evenly during wound closure improving tissue healing and reducing foreign body reaction^{¶,6}

A high stakes closure

Wound complications following breast surgery can impact scars and have emotional implications.⁸

Consider V-Loc for:

- Reducing wound inflammation^{¶,1,9}
- Potentially exhibiting lower adverse tissue reactivity^{¶,1,9}
- Potentially reducing wound ischemia and improving wound healing^{¶,1,9}

[Learn more](#)

† 22 out of 23 surgeons surveyed agreed. ‡ After 5 activations. § Compared to conventional electrocautery technique. ¶ As compared to conventional sutures. ¶¶ Animal data may not correlate with human clinical outcomes. # Based on preclinical data; preclinical results may not correlate with clinical performance in humans. Δ Compared to conventional electrocautery technique, (5.9 vs. 9.6 days, $p < 0.001$). ∞ Compared to conventional electrocautery technique, (4.8 vs. 6.8 days, $p < 0.001$).

1. Based on validation report #RE00114823, Global marketing report on surgeon evaluation of LigaSure™ Exact dissector, nano-coated. July 18-26, 2017. 2. Based on internal test report #RE00107711 Rev A, Market research report - Thermal profile comparison on porcine tissue of Ethicon Harmonic Focus™+. 3. Based on internal test report R000153866 Rev A, Comparison of the Harmonic Focus™+ shears, ThunderBeat™ open fine jaw, Voyant™ Fine Fusion, and LigaSure™ LF1212 vs. LigaSure™ LF2019 on the Valleylab™ FT10 and Valleylab™ LS10 energy platform and the 13 cm Sonicision™ curved jaw in an acute porcine study. January 2019. 4. Ikeda N, Akahori T, Yokotani T, Fujii T, Sho M. Total Sealing Technique (TST) with a bipolar vessel sealing system reduces lymphorrhea and seroma formation for axillary lymph node dissection in primary breast cancer. *Surg Open Sci.* 2024;19:1-7. 5. Ikeda N, Nagata T, Umemura T, Watanabe M. Total Sealing Technique: A Preliminary Study on a Novel Surgical Approach That Significantly Reduces the Incidence of Upper Extremity Lymphedema Following Axillary Dissection in Patients with Breast Cancer. *Cancers (Basel).* 2025;17(8):1285. 6. Fouda UM, Elsetohy KA, Elshaer HS. Barbed Versus Conventional Suture: A Randomized Trial for Suturing the Endometrioma Bed After Laparoscopic Excision of Ovarian Endometrioma. *J Minim Invasive Gynecol.* 2016;23(6):962-968. 7. Krishnamoorthy B, Shepherd N, Critchley WR, et al. A randomized study comparing traditional monofilament knotted sutures with barbed knotless sutures for donor leg wound closure in coronary artery bypass surgery. *Interact Cardiovasc Thorac Surg.* 2016;22(2):161-167. 8. Gass J, Mitchell S, Hanna M. How do breast cancer surgery scars impact survivorship? Findings from a nationwide survey in the United States. *BMC Cancer.* 2019;19(1):342. 9. Zaruby J, Gingras K, Taylor J, Maul D. An in vivo comparison of barbed suture devices and conventional monofilament sutures for cosmetic skin closure: biomechanical wound strength and histology. *Aesthet Surg J.* 2011;31(2):232-240.

Contact your
Medtronic sales
representative.

The V-Loc™ 90 wound closure device. Do not tie knots. Tying knots may damage the barbs and potentially reduce their effectiveness. As with all surgical sutures, adverse effects include but are not limited to wound dehiscence, and failure to provide adequate wound support in sites where expansion, stretching, or distention occur.

The regulatory status of LigaSure™ Exact dissector is independent from that of V-Loc™ wound closure device.

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