

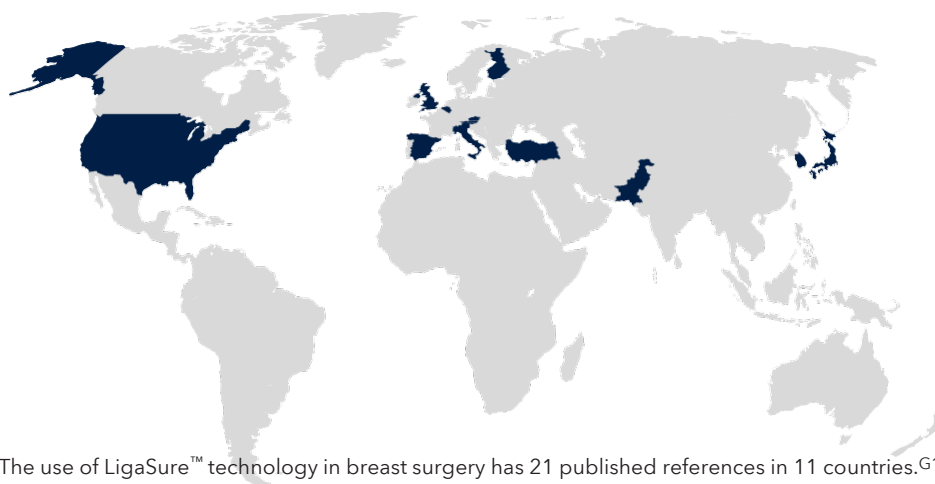
LigaSure™ Exact Technology in Breast Surgery Procedures

Medtronic provides the following synopsis of a global value dossier on LigaSure™ technology

Background

The LigaSure™ electrosurgical vessel-sealing system can divide and seal vessels up to and including 7 mm in diameter. It is globally trusted for vessel sealing and mobilization of the target area in numerous breast surgery procedures, including axillary lymph node dissection,¹⁻⁸ latissimus dorsi flap breast reconstruction,⁹ transaxillary submuscular pocket dissection,¹⁰ lumpectomy,¹¹ quadrantectomy,² and mastectomy.^{2,12}

LigaSure™ Exact device is now cleared for breast procedures in EMEA. LigaSure™ technology achieves superior patient outcomes compared to conventional ligation^{1,3,4,7-10,12} and is equivalent to other advanced energy devices.²



The use of LigaSure™ technology in breast surgery has 21 published references in 11 countries.^{G1-G21}

LigaSure™ technology offers clinical benefits

- **LigaSure™ device decreases drainage duration.** Reduced drainage duration compared to conventional ligation (according to 7 out of 10 subgroups in 9 studies),^{1-4,6-9,12} and comparable results to other advanced energy devices (according to 1 out of 1 study).²
- **LigaSure™ device reduces drainage volume.** Reduced drainage volume compared to conventional ligation (according to 5 out of 11 subgroups in 10 studies),^{1-4,6-10,12} and comparable outcomes to other advanced energy devices (according to 1 out of 1 study).²
- **LigaSure™ device achieves reduced or equivalent operative time.** Shorter surgical time compared to conventional methods (according to 3 out of 11 subgroups in 10 studies),^{1-4,6-9,12,13} and equivalent operative time compared to other advanced energy devices (according to 2 out of 2 subgroups in 1 study).²
- **LigaSure™ technology has a comparable safety profile.** Comparable or non-significantly lower rates of seroma (according to 6 out of 7 studies),^{2,4-7,9,12} lymphedema (according to 2 out of 2 studies),^{1,2} infection (according to 5 out of 5 studies),^{1,2,4-6} and hematoma (according to 5 out of 5 studies)^{1,5,7,10,12} compared to conventional ligation. Compared to ultrasonic devices, postoperative complication rates were varied, but broadly similar (according to 1 out of 1 study).²

LigaSure™ technology offers economic benefits:

- **Cost burden of complications.** Complications related to breast surgery can increase the total treatment costs by up to USD 10,000 per patient^{14,15} or up to 44%.¹⁵
- **Economic burden of lymphedema treatment.** Complicated lymphedema increases hospital costs of care by USD 31,313¹⁶ and its treatment costs USD 2,569 per patient.¹⁷
- **Reducing complications may provide economic benefit.** Increased safety and efficacy of breast surgery has the potential to impact budgets and realize savings by minimizing the risk of complications.

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For an MRI-compatible device(s), consult the MRI information in the device manual(s) before performing an MRI.

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Manuals can be viewed using a current version of any major internet browser. For best results, use Adobe Acrobat® Reader with the browser.

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