



Medtronic
Engineering the extraordinary



The LigaSure™ Exact dissector helps to decrease lymphatic leakage, seroma and lymphedema after total mastectomy with axillary lymph node dissection.^{1,2}

LigaSure™ Exact dissector

Smoothing the road to recovery

Key takeaways from clinical studies



† Compared to conventional electrocautery technique.

A novel technique for a common surgical challenge

Total sealing technique using LigaSure™ Exact dissector

For patients undergoing total mastectomy, prolonged drainage can commonly occur after axillary lymph node dissection (ALND), primarily due to lymphatic leakage.¹ Seroma can delay the start of their postoperative chemotherapy.¹ Additionally, lymphedema can significantly affect their quality of life.²

Reducing lymphatic leakage, seroma, and lymphedema

Total sealing technique (TST) is a surgical approach that uses the LigaSure™ Exact dissector to reduce lymphatic leakage, seroma, and lymphedema during total mastectomy with ALND.^{1,2}

Unlike the conventional electrocautery technique, TST uses the LigaSure™ Exact dissector to identify and dissect natural tissue layers while ensuring complete sealing of all dissected tissue before resection.

LigaSure™ Exact dissector can help patients undergoing total mastectomy with ALND:

- Experience a shorter hospital stay^{†,1}
- Transition to postoperative chemotherapy quicker^{†,1}

† Compared to conventional electrocautery technique.

1. 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.
2. 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* 2025, 17(8), 1285.

This material should not be considered the exclusive source of information, it does not replace or supersede information contained in the device manual(s).

Please note that the intended use of a product may vary depending on geographical approvals.

See the device manual(s) for detailed information regarding the intended use, the implant procedure, indications, contraindications, warnings, precautions, and potential adverse events.

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

If a device is eligible for eIFU usage, instructions for use can be found at Medtronic's website manuals.medtronic.com.

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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Important: Please refer to the package insert for complete instructions, contraindications, warnings and precautions.

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