



Medtronic

Engineering the extraordinary



LigaSure™ Exact dissector

Smoothing the road to recovery

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

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.



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LigaSure™ Exact
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