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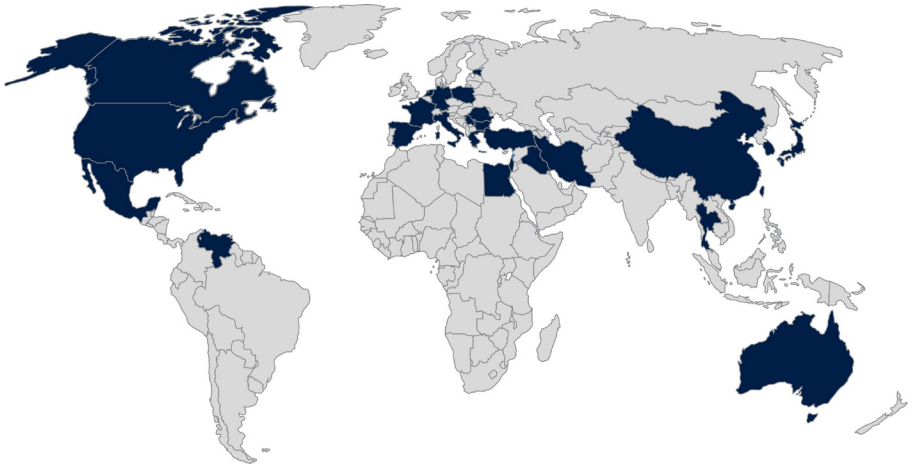
LigaSure™ Technology in Thyroidectomy Procedures

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 mobilization of the target area in partial and total thyroidectomy.[G1-G42] LigaSure™ technology achieves superior patient and economic outcomes in comparison to clamp-and-tie ligation.[1-13] In comparison to other advanced energy devices, LigaSure™ technology is superior or equivalent, and has demonstrated cost-savings.[4,6,7,11,14-18]



The use of LigaSure™ technology in thyroidectomy has 42 published references in 33 countries.[G1-G42]

LigaSure™ devices offer clinical benefits:

- **LigaSure™ devices have a comparable to superior safety profile.** Lower complication rates than clamp-and-tie ligation (13 out of 17 subgroups in 7 studies),[1,3,6,8,9,19,20] and comparable complication rates to Harmonic® Scalpel (11 out of 14 subgroups in 6 studies)[4,6,14-17] and Thunderbeat (5 out of 5 subgroups in 1 study).[17]
- **LigaSure™ devices reduce surgical time**. Generally shorter surgical time compared to clamp-and-tie ligation (according to 9 out of 9 studies),[1-6,8-10] and shorter or comparable surgical time to Thunderbeat (according to 3 out of 3 studies)[7,17,21] and Harmonic® Scalpel (according to 3 out of 10 and 7 out of 10 studies, respectively).[4-7,14-17]
- **LigaSure™ devices maintain voice function.** Decreased impact on voice function compared to conventional methods and Harmonic® Focus (according to 1 out of 1 study),[5] and similar impact to Thunderbeat (according to 1 out of 1 study).[7]
- **LigaSure™ devices are associated with less pain.** Lower post-thyroidectomy pain on swallowing compared to Harmonic® Scalpel (according to 1 out of 1 study).[14]

LigaSure™ technology offers economic benefits:

- **LigaSure™ technology reduces supply costs.** Up to 30% decreased operating room supplies cost in comparison to Harmonic® Scalpel.[18]
- **LigaSure™ technology reduces overall surgical costs.** Reduced overall surgical costs compared to conventional ligation,[12] reduced device costs compared to Harmonic® Scalpel.[6,16]
- **LigaSure™ technology costs are comparable with suture.** Increased device costs compared to suture ligation are offset by time and other cost savings during thyroidectomy.[11-13]

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