INTRODUCING
THE LAPRO-CLIP™ SYSTEM
FOR MAXIMUM SECURITY
IN SURGICAL PROCEDURES

- Reusable Single Clip Applier
- Absorbable Ligating Clips
- Clip Remover
STRENGTH AND SECURITY – CRITICAL COMPONENTS TO LIGATION METHODS

Ligation instruments have evolved over the years, with energy-based vessel sealing devices and vascular staplers being offered as modern, sophisticated options for surgeons and hospital facilities.

But despite it all, a dependable ligation clip still proves to be a strong and secure option for performing successful surgical procedures. As a physical device applying mechanical pressure to the vessels, ligation clips keep blood pressure away from cut ends for optimal healing.

**Lapro-Clip™ is your ligation solution**

**STRENGTH**
- Two-part compression closure mechanism includes anti-slip notch which may assist in the reduction of clip migration

**SECURITY**
- Compression closure mechanism may provide a more secure closure than latch closure mechanism by reducing the risk of tissue interposition¹
  - No foreign bodies left behind post-procedure

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WE WANT YOU TO FEEL STRONG AND SECURE

At Medtronic, we offer everything from clip appliers to advanced energy technology. Each of our products is designed to keep you laser focused during crucial moments both in the OR and on your patient’s road to recovery.

With the Lapro-Clip™ system, expect a reliable and consistent experience for optimal patient outcomes. Surgeons can feel confident they are using a product that promotes efficient case completion with clips that absorb in conjunction with critical vessel healing time and a well-designed, easy-to-use applier.

Medtronic stands on reliable technologies and a strong dedication to increasing your facility’s operational and economic efficiencies. Utilize our comprehensive portfolio to provide a higher quality of care. Because when it comes to ligation, it’s not about how far we can push the envelope. It’s how securely we can seal it.

Grab hold of strong¹, secure², and cost-effective³ ligation solutions with Medtronic.

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ADVANTAGES OF ABSORBABLE LIGATING CLIPS

- No foreign body left behind
- Absorbability via hydrolysis (the body’s natural substances such as lactic and glycolic acid)
- Radio-transparency - absorbable clips are not visible on MRI or CT scans

Clip migration may increase the risk of stone formation in:

- Cholecystectomies
- Hepatectomies
- Prostatectomies
- Partial Nephrectomies
- Gynecological procedures

641 patients that underwent surgical procedures requiring non-absorbable clips were monitored for over 3 years, as evaluated in a study¹

- 6 patients experienced surgical clip-related complications
- Metal clip migration was associated with 8% of 25 RRP cases of bladder neck contracture, and 100% of RRP cases that involved bladder stones

INTRODUCING THE SECURE MEDTRONIC SOLUTION

THE LAPRO-CLIP™ LIGATION SYSTEM

Reusable Single Clip Applier

KEY FEATURES
- Available in 26.5 cm (standard) and 33 cm (long) *
- Designed to be used with a 10 mm trocar
- Packaged non-sterile and designed for re-use

Clip compression closure mechanism may provide a more secure closure than clips with latch closure mechanism by reducing the risk tissue mechanism

*Long shaft (33 cm) is reusable for up to 50 sterilization cycles.

THE LAPRO-CLIP™ LIGATION SYSTEM

Lapro-Clip™ absorbable clips

Lapro-Clip™ absorbable clips are fully degraded in the body via hydrolysis after 180 days (inner track) and 90 days (outer track).

KEY FEATURES

- **Anti-slip notches** – may assist in reducing slippage or clip migration by increasing friction with the vessel surface, minimizing lengthwise and crosswise clip movement.

- **Dual-layer clip lock mechanism** – locks the distal end of the outer layer with the distal notch of the inner layer to secure the clip, providing optical ligation security.

- **Distal end closure** – optimizes inclusion of the blood vessel in the clip and reduces the risk of mid-ligation slippage, using a two-part compression closure mechanism.

- **Radiotransparency** – Lapro-Clip™ absorbable clips do not interfere with the magnetic field of x-ray, CT or MRI scans.

CLOSING SEQUENCE

1. Dual-Layered Clip Lock
2. Soft Flexible Inner Layer
3. Rigid Outer Layer
4. Anti-slip notch
A STRONG CASE FOR CHOOSING LAPRO-CLIP™

High degree of operator satisfaction with Lapro-Clip™ loading mechanism, security, and clip closure\(^1\)

**OVER 99%** of patients (\(n=233\)) experienced satisfactory results at 1-month post-op\(^1\)

**7 DAYS** post-op, absorbable clip maintained 80% strength\(^1\)

Use of absorbable clip may decrease incidences associated with metal clips\(^4\)

In an animal study, absorbable clips retention force provides greater holding strength than titanium clips\(^3\)

Lapro-Clip™ absorbable polymer clips compression closure mechanism may provide a more secure closure than clips with latch closure mechanisms by reducing the risk of tissue interposition\(^1\)

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LAPRO-CLIP™ OUTPERFORMS OTHER POLYMER CLIP PRODUCTS

1. CLIP RETENTION FORCE
Two-part compression closure mechanism includes anti-slip notch
- Anti-slip notch may assist in the reduction of clip migration

2. UNIQUE FRONT-TO-BACK LOCKING ACTION
Lapro-Clip™ closes front to back (distal to proximal) while Hem-o-lok™ clip closes from back to front (proximal to distal)
- Tissue hydraulics will allow tissue to extrude out of the jaws with a back to front closure

SURGEON EXPERIENCES

LAPRO-CLIP™ IN PROSTATECTOMY

Daniel Eun, MD
Associate Professor of Urology
Dir. of Robotic Urologic Surgery Fellowship Program
Dir. of Min. Invasive Robotic Urologic Oncology & Reconstructive Surgery
Dir. of Temple University Robotic Surgery Training Center
Temple University Health System Vice Chief of Robotic Surgery
Temple University School of Medicine

Dr. Daniel D. Eun
Vice Chief, Robotic Surgery
Temple University Hospital
## PRODUCT REORDER CODE INFORMATION

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## COMPETITIVE PRODUCT CROSS REFERENCE GUIDE

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IMPORT ANT LAPRO-CLIP™ RESOURCES

Lapro-Clip™ Sterilization brochure

Lapro-Clip™ Sell Sheet

Infographic

Medtronic website

CONTACT US

CLINICAL STUDIES

PRODUCT CODES

SURGEON EXPERIENCES

THE COMPETITION

ABSORBABLE CLIPS

ABSORBABLE CLIP ADVANTAGES

LAPRO-CLIP™ APPLIER

MEDTRONIC LIGATION

COMMON CHALLENGES

RESOURCES
### Study Title Key Conclusion

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<th>Key Conclusion</th>
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<td>Gronau, E. &amp; Panne L (2004). <em>Reflux of a Staple after Kock Pouch Urinary Diversion: A Nidus for Renal Stone Formation</em>. <em>Journal of Endourology</em>. 18(5): 481-482.</td>
<td>It has been known for 30 years that nonresorbable staples may serve as a nidus for urinary stone formation if they are in contact with urine.</td>
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<td>Miller, M. et al (2006). <em>Resorbable Clip Migration in the Collecting System after Laparoscopic Partial Nephrectomy</em>. <em>Journal of Urology</em>. Doi:10.1016.</td>
<td>Within the general surgical literature, several groups have reported clips from laparoscopic cholecystectomies migrating into the common bile duct and acting as a nidus for stone formation. These reports prompted the use of absorbable clips to avoid this complication.</td>
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LET’S START THE CONVERSATION TODAY

Learn more about the Lapro-Clip™ ligation system and other products in the Medtronic portfolio.

Contact your Medtronic Sales Representative today.

Visit us online: medtronic.eu/product-catalog
IMPORTANT: Please refer to the package insert for complete instructions, contraindications, warnings and precautions.

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