A STRONG AND SECURE LIGATION SOLUTION

Lapro-Clip™ Ligation System

Reusable Single Clip Applier | Absorbable Ligating Clips | Clip Remover
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 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.

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

**STRENGTH**

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

Absorbable ligating clips remain in place during critical vessel healing time. Degrade via hydrolysis in 180 days (inner track) and 90 days (outer track)

**SECURITY**

Compression closure mechanism may provide a more secure closure than latch closure mechanism by reducing the risk of tissue interposition

No foreign bodies left behind after full absorption (180 days)

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WE WANT YOU TO FEEL STRONG AND SECURE

We offer everything from clip appliers to advanced energy technology. All our products are 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. Surgeons can feel confident they are using a product with clips that absorb in conjunction with critical vessel healing time.

We stand behind reliable technologies and a strong dedication to increasing your facility’s operational and economic efficiencies. Use 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 about how securely we can seal it.
ADVANTAGES OF ABSORBABLE LIGATING CLIPS

- No foreign bodies left behind after full absorption (180 days)
- Absorbability via hydrolysis (the body's natural substances such as lactic and glycolic acid)
- Radiotransparency — absorbable clips are not visible on X-ray or CT scans

Clip migration may increase the risk of stone formation in:¹

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

641 patients who underwent surgical procedures requiring nonabsorbable clips were monitored for more than three years, as evaluated in a study:¹

- Six 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 our secure solution:

**THE LAPRO-CLIP™ SYSTEM**
**REUSABLE SINGLE CLIP APPLIER**

**Key Features**

- Shaft available in 11 cm (short), 26.5 cm (standard) and 33 cm (long)*
- Designed to be used with a 10 mm trocar
- Packaged non-sterile and designed for reuse

*The shaft (33 cm) is reusable for up to 350 sterilization cycles

The Lapro-Clip™ 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 the risk of slippage or clip migration by increasing friction
- 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
- Distal end closure – clip closes distal to proximal and reduces the risk of mid-ligation slippage, using a two-part compression mechanism
- Radiotransparency – Lapro-Clip™ absorbable clips do not interfere with magnetic field of X-ray, CT or MRI scans
A STRONG CASE FOR CHOOSING THE LAPRO-CLIP™ SYSTEM

High degree of operator satisfaction with Lapro-Clip™ ligation system’s loading mechanism, security and clip closure¹

Over 99% of patients (n=233) in a clinical study experienced satisfactory results at 1-month post-op¹

In an animal study, 7 days post-op, absorbable clip maintained 80% strength²

Use of absorbable clip may decrease incidences associated with metal clips such as migration into common bile duct causing stone formation, interference with magnetic field of CT or MRI scans³

In an animal study, the retention force of absorbable clips provided greater holding strength than titanium clips²

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 interposition¹

LAPRO-CLIP™ SYSTEM

Clip Retention Force

Two-part compression closure mechanism includes anti-slip notch, which may reduce clip migration

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) – and tissue hydraulics may allow tissue to extrude out of the jaws with a back-to-front closure¹

**SURGEON EXPERIENCES**

**LAPRO-CLIP™ REUSABLE CLIP APPLIER**

*Used to Ligate Vessels in Partial Nephrectomy Procedures*

 Demonstrated by Daniel Eun, M.D.
Associate Professor of Urology,
Chief, Robotic Surgery,
Temple University Hospital

**Dr. Daniel D. Eun**
Associate Professor of Urology,
Chief, Robotic Surgery,
Temple University Hospital
We know there's a balancing act between the quality of care and the cost of care. So we've made a commitment to consistency, choice, and comfort with our comprehensive portfolio of products.

In addition to standardizing SKUs to keep costs down and your efficiencies up, we champion the value of reusable laparoscopic instruments in the OR. Evidence from reusable laparoscopic instruments has shown the following:

In one Greek study, reusable laparoscopic instruments (RLI) produced savings equivalent to $440,000 spanning 2 years and 623 laparoscopic procedures.

The same study cites RLIs cost to be 9x less than disposable laparoscopic instruments (DLI).

When it comes to both our reusable or disposable solutions, we deliver reliable technologies that support surgical site focus and promote efficient case completion – all at value pricing.

# Product Reorder Code Information

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# Competitive Product Cross Reference Guide

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Experience the Lapro-Clip™ ligation system today


Procedural satisfaction3 of patients (n=233) in a clinical study experienced satisfactory results at 1-month post-op3. High degree of operator satisfaction with Lapro-Clip™ ligation system's loading mechanism, security and clip closure interposition3.

Complications with Weck Hem-o-lok™*5:
- 4 out of 524 patients developed bladder neck contractures (BNC) following robot-assisted laparoscopic prostatectomy (RALP)5.
- Hem-o-lok™* clip found in 2 patients with obstructive lower urinary tract symptoms that did not respond to dilation or transurethral incision6.
- 2 cases of Hem-o-lok™* clip migration into the urinary tract5.
- 28 additional reported adverse events from July 2005 to June 20075.
- Several Hem-o-lok™* clips found in a patient with pelvic bleed and recurrent clot retention5.
- Locking clips may result in delayed hemorrhage6.

Absorbable advantages:
- In an animal study, 7 days post-op, absorbable clip maintained 80% strength1. Use of absorbable clip may decrease incidences associated with metal clips such as migration into common bile duct causing stone formation, interference with magnetic field of CT or MRI scans7.

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### ADDITIONAL KEY CLINICAL STUDIES

<table>
<thead>
<tr>
<th>Study Title</th>
<th>Key Conclusion</th>
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<tbody>
<tr>
<td>Gronau, E. &amp; Panne L (2004). Reflux of a Staple after Kock Pouch Urinary Diversion: A Nidus for Renal Stone Formation. <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). Resorbable Clip Migration in the Collecting System after Laparoscopic Partial Nephrectomy. <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:
800-722-8772

Visit us online:
medtronic.com/covidien