CO₂ precision energy for the complete treatment of endometriosis, adhesiolysis, ovarian cysts and myomas
PROVEN RELIABILITY:
100,000+ SURGERIES
USING OMNIGUIDE’S FLEXIBLE CO₂
LASER SYSTEM

PROVEN RESULTS:

HISTOLOGICAL ASSESSMENT OF
UROTHELIAL/EPITHELIAL INJURY

<table>
<thead>
<tr>
<th>Surgical Site</th>
<th>Bipolar Cautery</th>
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Tulikangas PK, Smith T, Falcone T, Boparai N, Walters MD. Gross and histologic characteristics of laparoscopic injuries with four different energy sources. Fertil Steril, 2001 Apr;75(4):806-10
WHY CO₂ ENERGY?

» Minimal thermal spread to surrounding structures
» 10x less thermal spread than cautery
» Layer by layer dissection

» Cutting, coagulation & vaporization in one tool
» Consistent predictable tissue interaction
» Maximizes preservation of reproductive tissue

Precision
CO₂ laser energy delivered via a flexible fiber system exhibits greater surgical precision than monopolar and electrocautery in both cutting and coagulation modes¹

Thermal Spread
CO₂ laser energy provides greater dissection capabilities with minimal to no increase in thermal damage resulting in significantly less tissue damage¹ and no adhesion formation, immediately and throughout the healing phase²

Absorption Length: Various Energy Sources³

Consistency
Compared with monopolar, CO₂ laser shows less variability from one use to the next resulting in superior predictable and reliable outcomes¹

Complete Disease Removal
Layer by layer removal leaves underlying normal healthy tissue undamaged⁴

Versatility
Provides hemostatic cutting, ablation, coagulation and blunt dissection
POTENTIAL PATIENT BENEFITS

» Minimum post op adhesion formation, rapid wound healing
» Less injury to delicate structures
» Less pain and better quality of life

APPLICABLE PROCEDURES

Endometriosis | Ovarian Cyst | Adhesiolysis | Myomectomy | Lower Genital Tract

LAPAROSCOPIC

Endometriosis
Ablation of Endometriosis

Adhesions
Dense Uterine Adhesion

ROBOTIC

Endometriosis
Ablation at 4 watts

Myomectomy
Layer by layer dissection at 8 watts

LOWER GENITAL TRACT

Vulvar Condyloma
Excision at 16 watts

Vulvar Condyloma
Ablation at 12 watts
The OmniGuide CO₂ laser system used with our laparoscopic instrumentation provides precision, access and minimal thermal damage critical to safely, effectively and completely removing disease.¹

**Advantages for Laparoscopic Surgery:**

- Treatment Versatility - Excision, ablation and blunt dissection capabilities
- Micron-level Thermal Damage² – minimal adverse healing response and post-operative adhesion formation resulting in rapid wound healing
- Precision - small spot size for precise and predictable tissue interaction³

¹ The OmniGuide CO₂ laser system is not approved for use in the USA.
² Micron-level damage is not approved in all countries.
³ Precision is not always guaranteed due to various factors.
Innovations in Laparoscopic Surgery

The LapFlex is the only articulating laparoscopic advanced energy instrument for ablation of endometriosis that enables surgeons to access hard-to-reach anatomical structures and anterior disease. The 60° of articulation allows for enhanced precision and control during cutting, ablation and blunt dissection aiding in more complete disease removal.

Ablation

Cutting

Blunt Dissection

Resources:
The OmniGuide CO₂ advanced energy system integrates the benefits of CO₂ laser enabling precision cutting, vaporization/ablation and coagulation. The robot, with use of the CO₂ laser, allows deep infiltrating endometriotic lesions to be easily and efficiently removed with minimal bleeding as compared to radiofrequency energy.¹

**Advantages for Robotic Surgery:**

» More complete disease removal

» Precise & predictable tissue interaction

» Ability to cut, coagulate and vaporize
“This is the closest you can get to replicating the action of a cold knife with energy. The precise and predictable tissue interaction of the CO$_2$ laser coupled with the increased dexterity allowed by the combination of the wristed robotic instruments and the flexible fiber act in synergy to provide a highly versatile microsurgical scalpel and dissector.”

– Antonio R. Gargiulo, MD

**MYOMECTOMIES**

- Minimizing myometrial thermal damage while performing complex myomectomies with exceptional surgical precision and confidence $^3$
- Faster tissue healing is reflected by low rates of adhesion formation
- Decreased adhesion formation, improved hemostasis, precision of application and improved reproductive performance $^4$

**ADHESIOLYSIS**

- Precise, yet hemostatic lysis of adhesions $^5$
- Minimal thermal damage allows avoidance of injury to neighboring structures $^5$

**ENDOMETRIOSIS**

- Low recurrent disease rates

Resources:
5. Albee R. Excision of Endometriosis with the Carbon Dioxide Laser; in Surgical Management of Endometriosis, Edited by David Redwine, Publ. Martin Dunitz, 2004
The CO₂ laser is a safe and effective treatment for the management of genital warts. The key advantages are precision (which results in sparing of normal tissue), elimination of disease and post-operative results.¹

» Minimal thermal damage

» Rapid healing and recovery¹

» Less pain, mainly for treatment of vulvar lesions¹

» Minimal risk of scarring¹

» Low rate of complications and recurrence¹

» Increased access to vaginal walls and lesions

» More complete disease removal results in longer periods of time between procedures

» Control over depth of penetration for deep seated vaginal and cervical lesions
OmniGuide CO₂ Laser Treatment offers the following advantages over other technologies:

**LINE OF SIGHT CO₂ LASER:**

- Improved access for hard-to-reach lesions
- Enhanced ease-of-use and ergonomics

**CRYOTHERAPY:**

- Two fold greater outcomes with CO₂
- Provides lower recurrence rates

**ELECTROCAUTERY:**

- More complete disease removal due to the damage of electrocautery to surrounding tissue
- Ability to use on or near critical structures

### HISTOLOGICAL ASSESSMENT OF UROTHELIAL/EPITHELIAL INJURY³

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Due to the damage of electrocautery to surrounding tissue surgeons can not be as aggressive around critical anatomy and may have to leave disease behind.

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<th><strong>Catalog #</strong></th>
<th><strong>Product Name</strong></th>
<th><strong>Description</strong></th>
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<tr>
<td>BP-Robotic</td>
<td>BeamPath ROBOTIC fiber</td>
<td>Robotic fiber, 180cm length</td>
</tr>
<tr>
<td>OmniFlex</td>
<td>OmniGuide OmniFlex Instrument Set</td>
<td>Gyn set includes 1 LapFlex handpiece and 1 Robotic FlexGuide Ultra with tray</td>
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<tr>
<td>GYN-HS-MIS</td>
<td>GYN Minimally Invasive Surgery Set</td>
<td>Includes GYN instruments for minimally invasive surgery: FlexGuide ULTRA fiber conduit, GYN-LAP-33B, GYN-HP-46, one autoclave tray</td>
</tr>
<tr>
<td>GYN-HS-LGT</td>
<td>GYN LGT Handpiece Set</td>
<td>Includes five GYN handpieces; GYN-HP-3,5,6,6B,13,13B and one autoclave tray</td>
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<td>FLEX-ULTRA SET</td>
<td>BeamPath Robotic Fiber Conduit</td>
<td>BeamPath ROBOTIC Flexible fiber conduit and instrument tray</td>
</tr>
<tr>
<td>FLEXGUIDE - ULTRA</td>
<td>BeamPath Robotic Fiber Conduit</td>
<td>Compatible with 8mm large needle driver or 5mm needle driver</td>
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<td>FLEX-TRAY</td>
<td>FlexGuide Ultra Tray</td>
<td>Replacement Autoclave tray</td>
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<tr>
<td>341003</td>
<td>OmniGuide LapFlex Instrument Set</td>
<td>1 Lapflex handpiece with tray</td>
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<tr>
<td>341001</td>
<td>OmniGuide LapFlex Handpiece</td>
<td>Laparoscopic handpiece, with 33cm working length and 5cm articulating distal portion</td>
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<tr>
<td>341002</td>
<td>OmniGuide LapFlex Tray</td>
<td>Replacement Autoclave tray</td>
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<tr>
<td>GYN-HS-LAP</td>
<td>Laparoscopic Procedure Set</td>
<td>Includes two GYN handpieces; GYN-LAP-33b, GYN-HP-46 and one autoclave tray</td>
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<td>GYN-LAP- 33B</td>
<td>Laparoscopic Handpiece</td>
<td>33cm working length, curved tip</td>
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<tr>
<td>GYN-HP-46</td>
<td>Laparoscopic Handpiece</td>
<td>46cm working length, compatible with suction irrigators</td>
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<td>GYN-TRAY-LAP</td>
<td>Laparoscopic Procedure Tray</td>
<td>Replacement autoclave tray</td>
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<td>GYN-HS-LGT</td>
<td>Lower Genital Procedure Handpiece Set</td>
<td>Includes five GYN handpieces; GYN-HP-3,5,6,6B,13,13B and one autoclave tray</td>
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<td>GYN-TRAY-LGT</td>
<td>Lower Genital Procedure Tray</td>
<td>Replacement autoclave tray</td>
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REFERENCES


4. Endometriosis Foundation of America www.endofound.org