ENDO GLOW
TISSUE REVEAL TECHNOLOGY™

GreenEgg Fluorescent Manipulator

Fluorescence for Gynecologic Surgeries

The GreenEgg™ is used for manipulation and visualization during minimally invasive gynecologic, urologic and colorectal surgeries. The GreenEgg™ is used as a traditional manipulator, preserving the surgical flow.

The GreenEgg™ fluoresces under near infrared light commonly used in robotic and laparoscopic surgical systems. By trans-illuminating tissue, the GreenEgg™ provides surgeons with enhanced images. Trans-illumination highlights tissue depth, tissue quality and subsurface pathology. This allows surgeons to make more informed real-time surgical decisions.

Laparoscopic

Figure 1: Bladder dissection in full spectrum light.

Figure 2: Bladder dissection with NIR overlay. The GreenEgg™ is fluorescing in the vagina.

Robotic

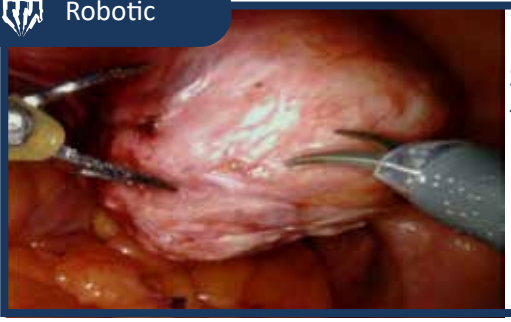

Figure 1: Scarred bladder in full spectrum light.

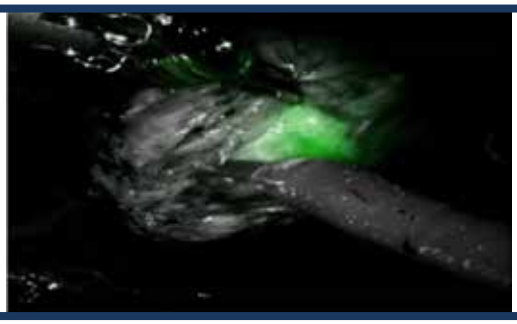

Figure 2: Transillumination from the GreenEgg™ provides enhanced border definition.

Figure 1: Normal appearing bladder anatomy in full spectrum light.

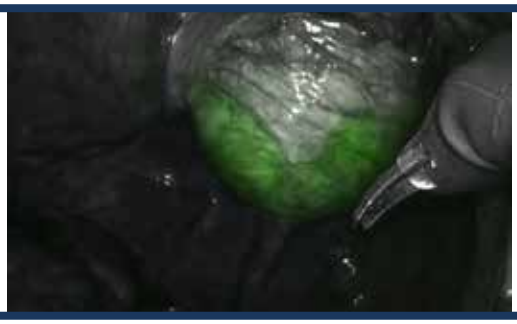

Figure 2: Transillumination with the GreenEgg™ revealed bladder scarring in a “V” shaped formation.

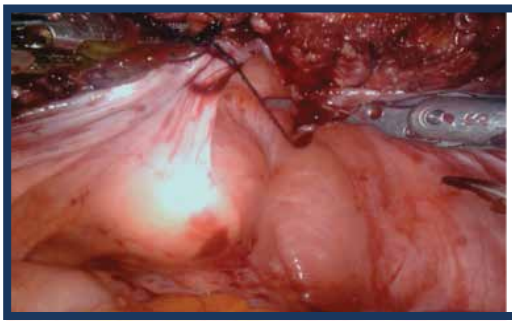

Figure 1: The GreenEgg™ manipulator is placed in the rectum.

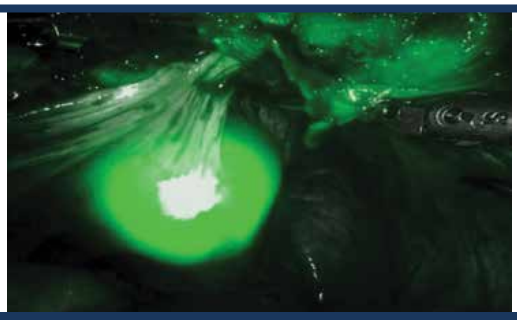

Figure 2: The GreenEgg™ manipulator fluoresces in the rectum for enhanced teaching moments.

In gynecologic surgeries, the GreenEgg™ aids the surgeon by trans-illuminating the rectum and vagina. This can be beneficial with the identification of subsurface pathology, assisting in the visual identification of scar tissue and evaluating relative tissue depth during minimally invasive surgeries.

Procedure	Benefits of Transillumination	Impact
Endometriosis Resection	Enhanced visualization of subsurface endometriosis by trans-illuminating the tissue.	• Superior identification and removal of endometriosis without the use of a proctoscope. • Decreased operative time and sterilization costs.
Resection of Recurrent Gynecologic Cancers	Placing the manipulator in the rectum or the vagina will transilluminate the tissue and amplify areas of concern for recurrence or seeding.	• More complete resection of recurrent cancer will result in improved prognosis. • Can be used in conjunction with ICG identifying sentinel lymph nodes.
Complicated Pelvic Anatomy	By transilluminating the rectum or vagina, anatomic borders are delineated and surgical planes are enhanced leading to a decrease in perforation of the bladder, rectum or vagina.	• By decreasing intra operative complications, patient outcomes are improved, and surgical time is minimized.
Sacrocolpopexy	By placing the manipulator in the vagina and transilluminating the tissue, surgical planes are enhanced and mesh placement is facilitated. Incidental entry into the bladder, rectum or vagina is illuminated.	• Surgical time is minimized with improved visualization. • Decreased mesh related complications by avoiding and recognizing incidental cystotomies or vaginal/rectal perforations.
Minimally Invasive Pelvic Surgeries	Enhance visualization through transillumation leads to better communication within the surgical team.	• Excellent for surgical learners with potential to decrease learning curves.

The GreenEgg™ provides hassle free fluorescence with the following features:

Trans-Illumination
The GreenEgg™ fluorescence is used to transilluminate tissue, revealing sub-surface pathology, anatomical borders, tissue thickness and more.

Fluorescence Without Time Limits
The GreenEgg™ provides fluorescence for the entire the surgery without time restrictions. (Injected ICG is only effective within a short time window before it saturates the image).

Injection Free Embedded Fluorescence
The GreenEgg™ provides localized fluorescence without the need to mix or inject ICG.

Injection Compatible Fluorescence
The GreenEgg™ provides fluorescence by itself or in conjunction with intravenous ICG and other systemic dyes.

Individually Sterilized
The GreenEgg™ is individually packaged and sterilized, making the GreenEgg™ available with maximum repeatable fluorescence every time.

Power Free Fluorescence
Without power cords or batteries, the GreenEgg™ fluoresces when energized by NIR surgical imaging systems.

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