



GreenEgg™ Fluorescent Manipulator



GYNECOLOGY

The GreenEgg™ fluorescent surgical manipulator is used during minimally invasive gynecologic surgeries. By providing fluorescent transillumination, the GreenEgg™ enhances surgical visualization to highlight tissue depth, tissue quality and subsurface pathology.

Figure 1: Endometriosis

- This patient has severe endometriosis.
- The surgeon can see superficial endometriosis on the bowel.
- The GreenEgg™ is in the rectum and provides fluorescence to assist the surgeon in evaluating for deep infiltrating endometriosis.
- None is seen.

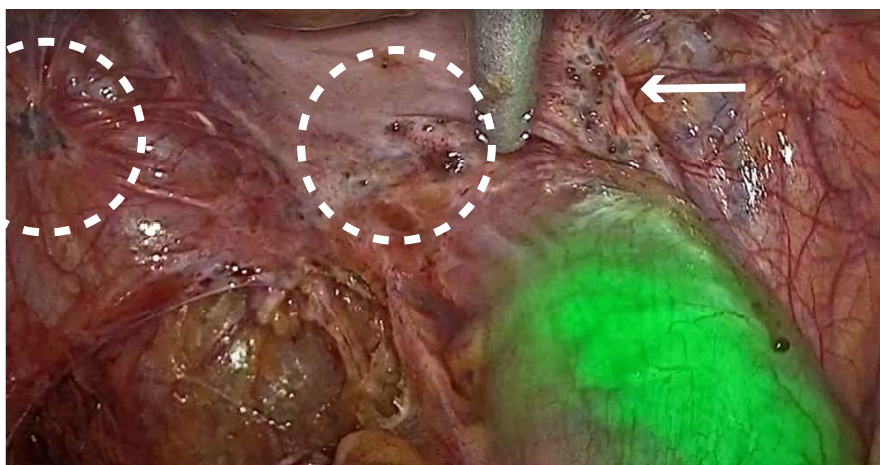


Figure 2: Rectal Endometriosis

- The GreenEgg™ is in the rectum.
- The rectum is being evaluated for deep infiltrating endometriosis using NIR and the GreenEgg.
- A superficial nodule of endometriosis is seen and resected (picture at right).
- The NIR will be used to evaluate for bowel perforation and the potential need of repair.

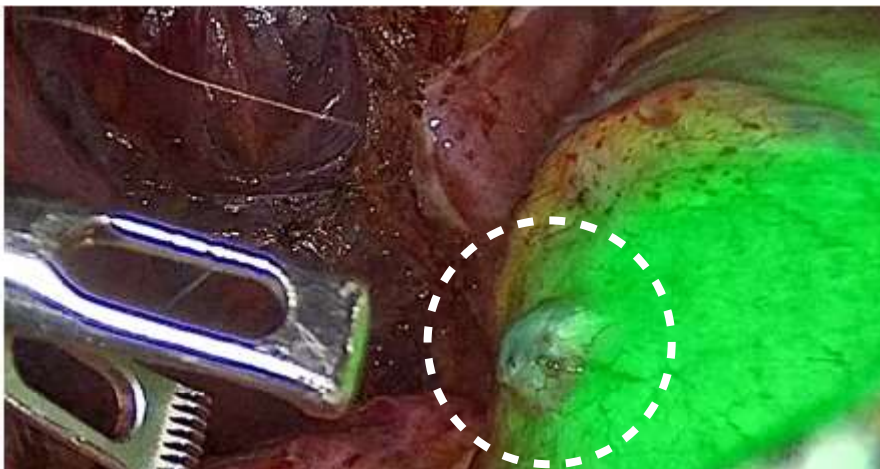
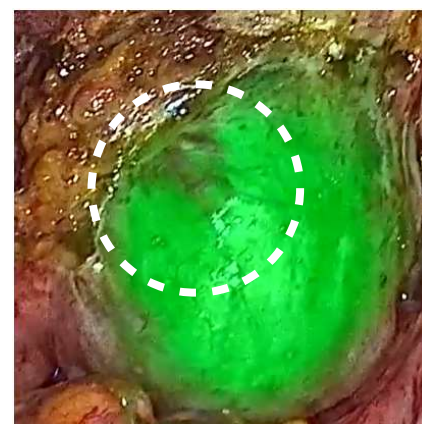
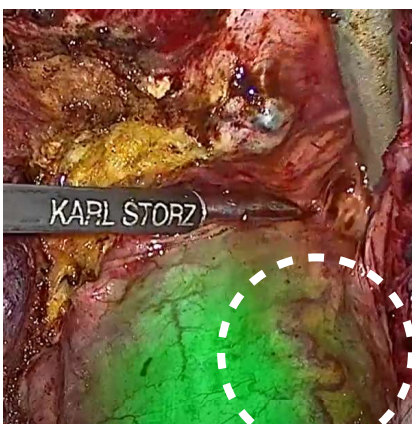
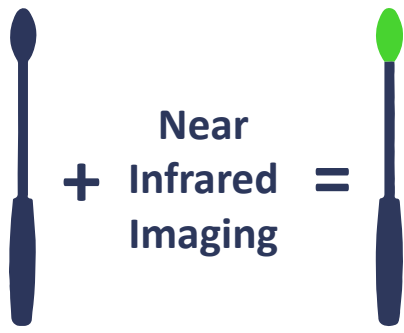


Figure 3: Vaginal Nodule

- The GreenEgg™ is in the vagina.
- Vaginal vasculature is highlighted along the right side of the vagina (picture on left).
- Vaginal endometriosis / nodule is identified (rightmost picture).
- After the vaginal endometriosis is removed, the GreenEgg™ and NIR are used to evaluate for residual endometriosis or an incidental vaginotomy.
- Neither are seen.






The GreenEgg™ fluoresces under near infrared imaging during minimally invasive surgery.


Use:
The GreenEgg™ can function as a standard vaginal or rectal manipulator during pelvic surgeries. Fluorescence is viewed on robotic and laparoscopic systems that have Near Infrared Imaging (NIR).

Compatibility

Laparoscopic Systems



Robotic Systems



That have Near Infrared Imaging (NIR) option installed.

GreenEgg™ Features



Transillumination
Fluorescent transillumination enhances tissue visualization: revealing sub-surface pathology, anatomical borders, tissue thickness and more.



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



Fluorescence Without Time Limits
GreenEgg™ fluorescence is available throughout the entire surgery.



Compatible Fluorescence
The GreenEgg™ can be used in conjunction with intravenous ICG and other systemic dyes.



Dye-Free Embedded Fluorescence
The GreenEgg™ provides dye-free localized fluorescence that does not require injections.



Power Free Fluorescence
The GreenEgg™ provides fluorescence without batteries or external power.

Procedure	Issue	Solution	Impact
Endometriosis Resection	Standard imaging does not provide enough visualization regarding depth of resection.	GreenEgg™ fluorescence transilluminates tissue to give more visual information, including depth.	<ul style="list-style-type: none"> • Superior identification and removal of endometriosis. • Better patient outcomes. • Superior visualization allows the surgeon to make better decisions.
Endometriosis Resection	Standard imaging does not provide enough visualization to evaluate for residual endometriosis.	The GreenEgg™ transilluminates tissue to highlight subsurface pathology.	<ul style="list-style-type: none"> • Visual confirmation of complete endometriosis resection. • More complete removal of endometriosis reduces pelvic pain in patients.
Resection of Infiltrating Endometriosis	Deep infiltrating rectal endometriosis can be missed without the use of a proctoscope or advanced imaging.	GreenEgg™ fluorescence transilluminates the tissue to reveal infiltrating endometriosis.	<ul style="list-style-type: none"> • Superior identification and removal of endometriosis without the use of a proctoscope. • Decreased operative time and sterilization costs.

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 Katz, R., et al. (2003). "Operative management of rectal injuries during laparoscopic radical prostatectomy." *Urology* 62(2): 310-313.
 Sheikh, L., et al. (2019). "Counting the costs of complications in colorectal surgery." *N Z Med J* 132(1497): 32-36.
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