

Fluorescence Imaging in Colorectal Surgery

with IMAGE1 S™ Rubina™

STORZ
KARL STORZ—ENDOSKOPE

SURGICAL APPLICATION BRIEF



PROBLEM

Anastomotic Leaks



PREVALENCE

12.7%
OF PATIENTS^{1,2}

Problem & Challenge with Anastomotic Leaks

Anastomotic leaks following colon resection cause significant clinical and financial difficulties, including higher costs, longer hospital stays, additional surgeries, and decreased quality of life.



FINANCIAL IMPACT¹



\$39,525
AVERAGE GREATER COSTS

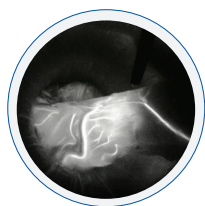
12 DAYS
LONGER



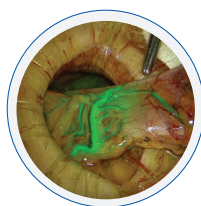
(\$66,037 vs. \$26,512 on average) than for patients with no leak

Stay (19 vs. 7 on average) than for patients with no leak

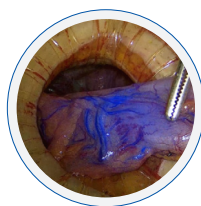
Use of NIR/ICG



Rubina™
Monochromatic



Rubina™
Green Overlay



Rubina™
Blue Overlay



CLINICAL IMPACT²

Anastomotic
Leaks Down

16% → 9.1%

Risk
Reduction

44.2%



OPTIMIZED OUTCOME

NIR/ICG Offers Tangible Benefits for Patients

Real-time visualization of tissue perfusion using NIR/ICG can improve patient care by verifying adequate blood flow at the anastomosis, which can help reduce complications and improve outcomes following colorectal surgery.

19.2%

Transection line changed in 19.2% of cases — nearly 1 in 5 — based on real-time assessment with ICG²

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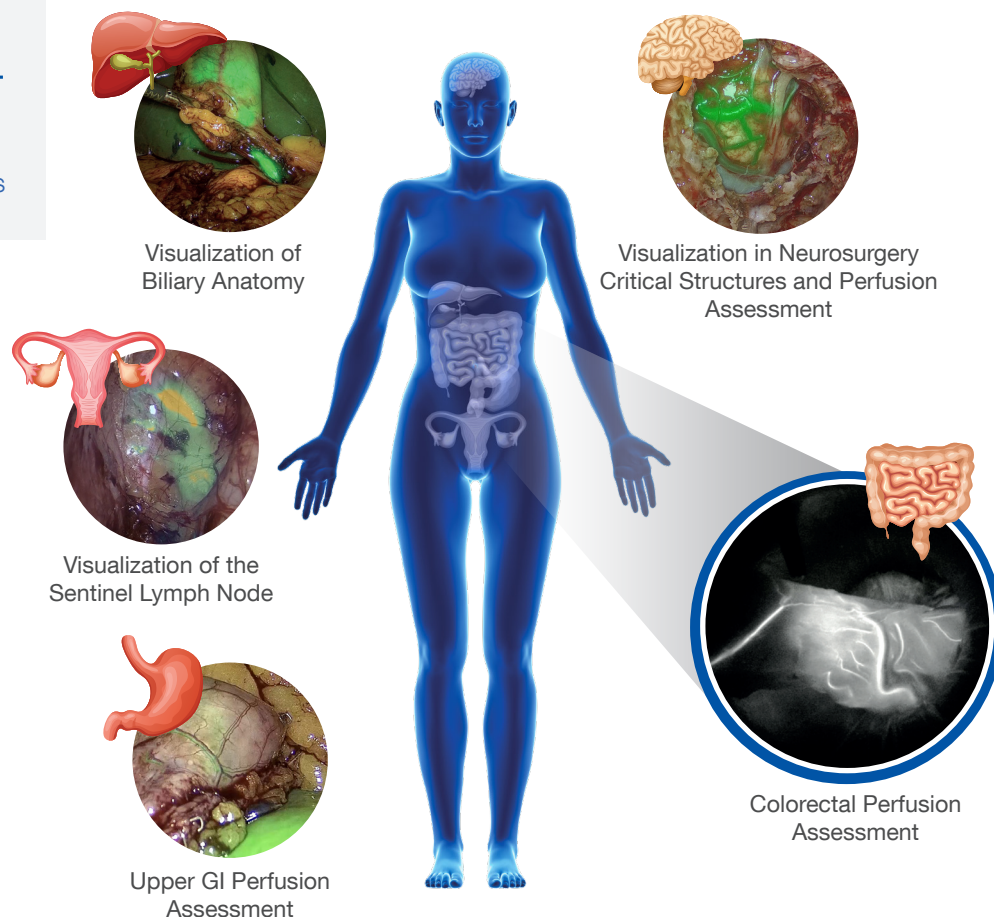
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SURGICAL APPLICATION BRIEF

Common Rubina Applications

Laparoscopic Colectomy

- Identify Ischemic Tissue
- Verify Change in Surgical Plan
- Minimize Costs Due to Complications



1. Lee SW et al. Clinical and economic burden of colorectal and bariatric anastomotic leaks. Surg Endosc 34, 4374–4381 (2020). <https://doi.org/10.1007/s00464-019-07210-1>.
2. Alekseev M et al. A study investigating the perfusion of colorectal anastomoses using fluorescence angiography: results of the FLAG randomized trial. Colorectal Dis 22, 1147–1153 (2020). <https://onlinelibrary.wiley.com/doi/10.1111/codi.15037>

Please contact your KARL STORZ sales representative
for detailed information

FOR U.S. USE ONLY

It is recommended to check the suitability of the product for the intended procedure prior to use.
Please note that the described products in this medium may not be available yet in all countries due to different regulatory requirements.

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