

# BRIGHT GREEN BREAKTHROUGH: THE FLUORESCENT TOOL REVOLUTIONIZING IN REVISIONAL BARIATRIC SURGERY



Diego Romani, Kamyla Olazo, Rodrigo Rojas - Harold  
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ICG



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No disclosures



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## Introduction

Indocyanine Green (ICG) is a fluorescent dye widely used in the medical field (vascular, lymphatics, bile duct, tumor)

In revisional bariatric surgeries, ensuring adequate perfusion is critical to prevent postoperative complications.

This study presents 4 cases of revisional bariatric surgery performed due to gastroesophageal reflux and weight gain in which ICG was utilized to evaluate its effectiveness and safety.

All patients had previously undergone laparoscopic sleeve gastrectomy.



# Methods

A retrospective review of 4 cases of Revisional Surgery

Patients were converted because of **GERD & WEIGHT REGAIN**

Conversion PRE OP Checklist

- a) High Resolution Esophageal Manometry
- b) 24 hour pHmetry
- c) 24 hour Esophageal impedance
- d) 3D CT Gastric Volumetry
- e) Fluoroscopy
- f) Endoscopy

# Methods

ICG dose of 2,5 – 3,5 ml (25mg / 10 ml )

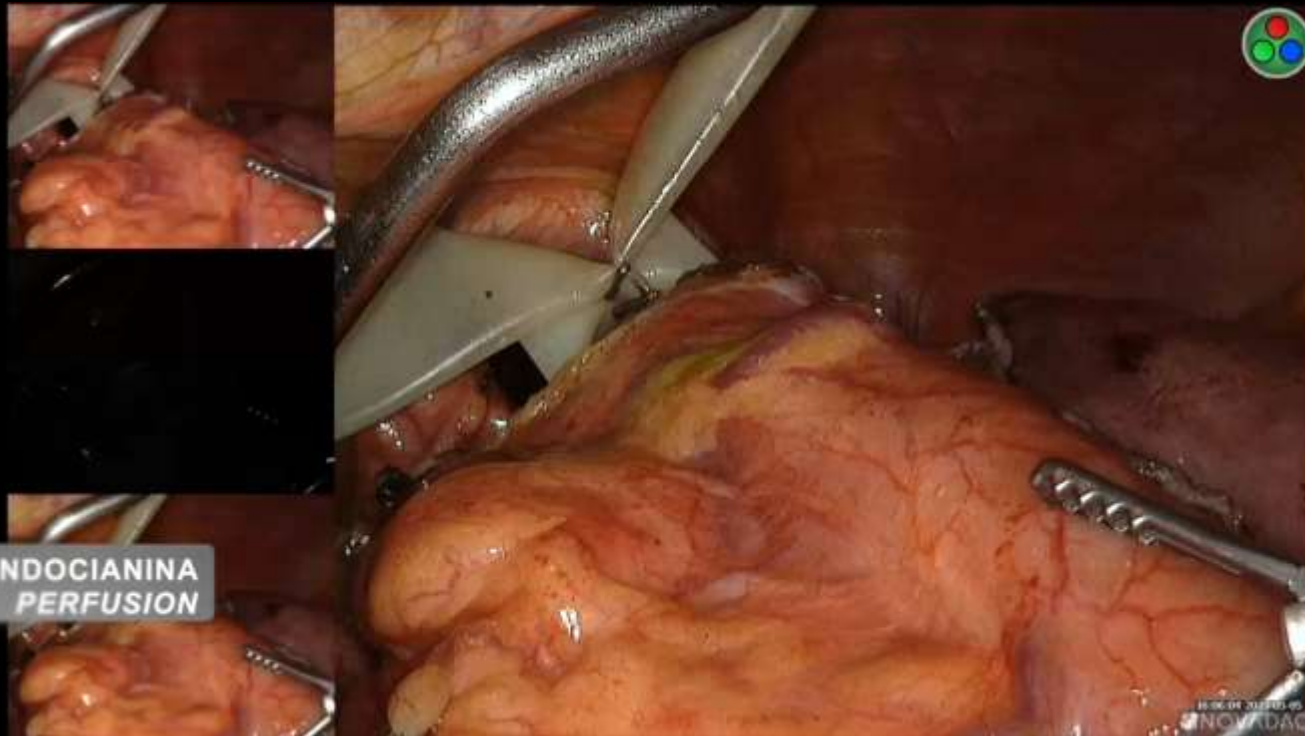
ICG to assess the stomach section area before performing the gastrojejunal anastomosis. 1st time

ICG to assess perfusion following the gastrojejunal and jejunojejunal anastomoses. 2nd time

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## Methods





# Methods

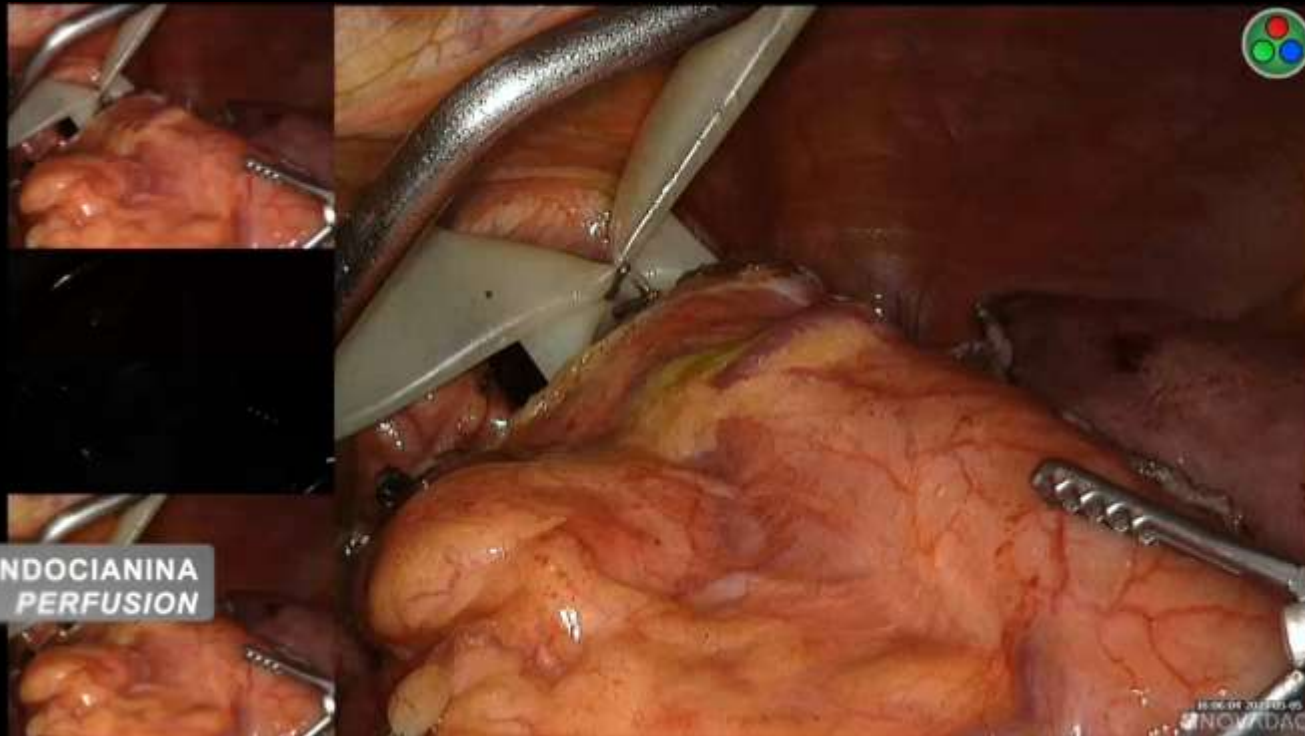
## LAPAROSCOPIC CONVERSION OF SLEEVE GASTRECTOMY TO ROUX-EN-Y GASTRIC BYPASS

Patient with history of total colectomy

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## Methods



# Results

All 4 patients had previously undergone laparoscopic sleeve gastrectomy as their sole bariatric procedure.

With the use of ICG, good perfusion was demonstrated in all cases, and no complications were encountered during the postoperative period.

Visualization after ICG perfusion was 20-30 seconds

Duration of this visualization was 10-20 seconds before disappearing.

Follow up to 12 months. safe assessment of tissue perfusion during surgery.

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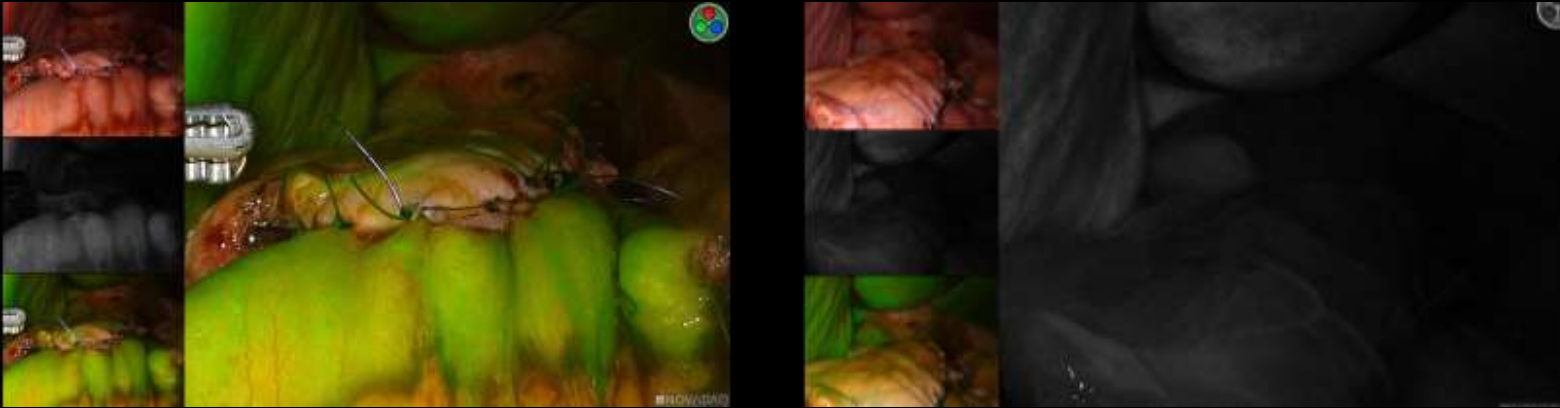
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# Results

Case A. Gastrojejunal anastomosis perfused with green light.

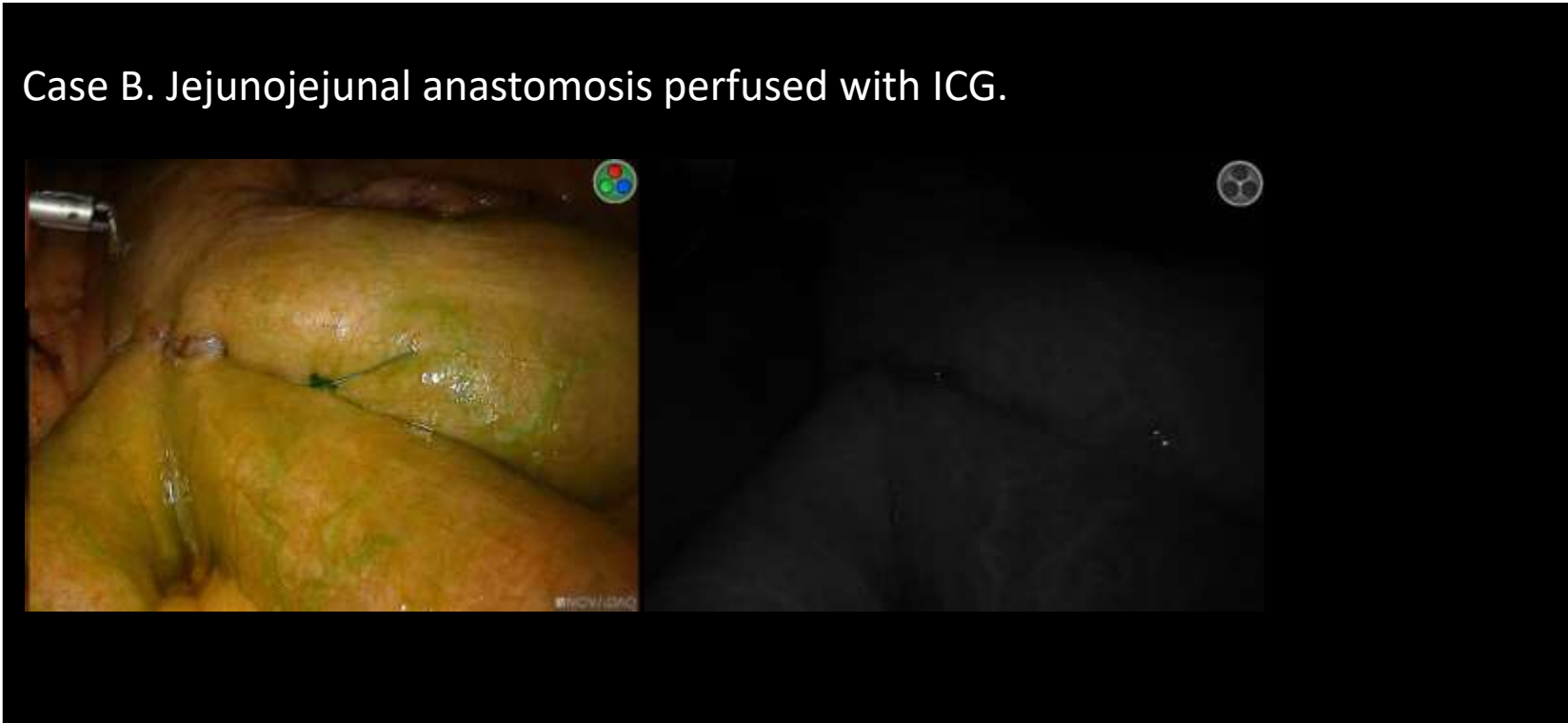


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## Results

Case B. Jejunojejunal anastomosis perfused with ICG.



# Results

Case C. Gastrojejunal anastomosis perfused with green light.



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## Results

Case D. Gastrojejunal anastomosis perfused with green light





# Conclusions

## **ICG in revisional bariatric surgery ...**

... is a valuable tool for assessing tissue perfusion, potentially reducing postoperative complications.

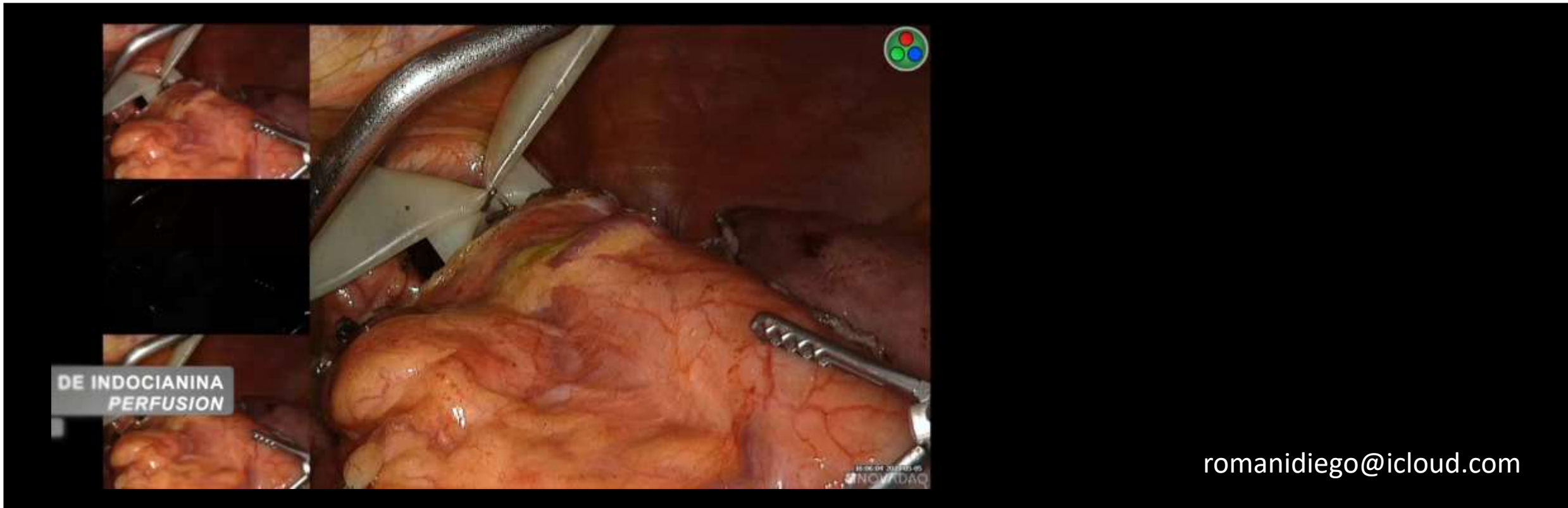
... should be to be adopted as a tool in complex or high-risk cases where complications may be more likely

... safe and efficient.

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## Questions?



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IX CONGRESO  
**IFSOLAC**  
LIMA 2024

V CONGRESO NACIONAL  
**APCBEM**  
DE CIRUGÍA BARIÁTRICA  
Y METABÓLICA

20 - 23  
FEBRERO 2024

swissôtel **LIMA**

