

# Magnetic Surgery is the next revolution in Bariatric Surgery

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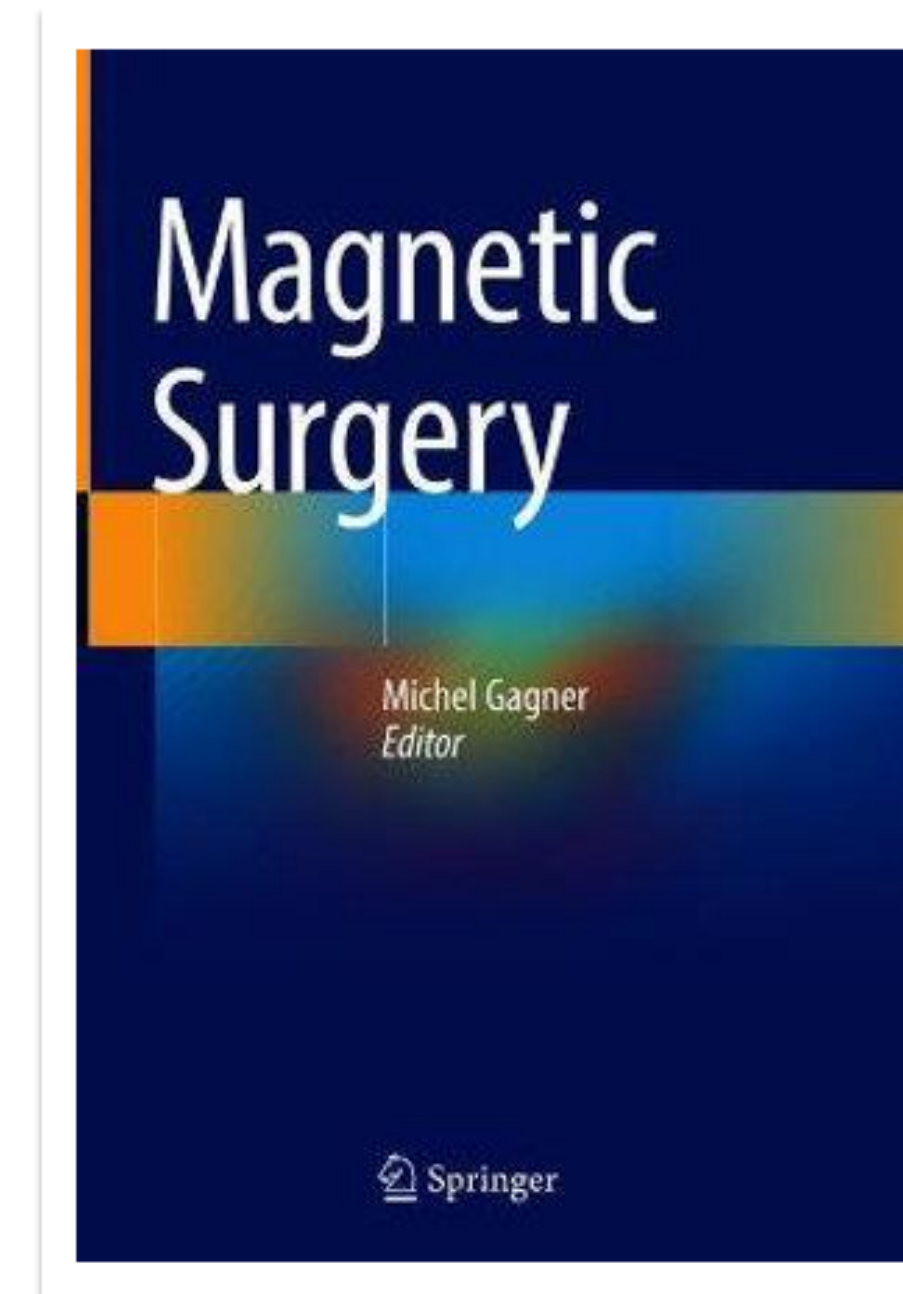
# Financial Disclosures

Lexington Medical

Stock  
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tant

GT Metabolic  
Solutions Inc

Stock  
Ownership/consul  
tant/Board



Magnes Lapis  
Magnettes

Magnets

# Mathieu Jaboulay (1860-1913) and His Innovations in Vascular and General Surgery

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Evangelos Mavrommatis, MD<sup>1</sup>, Pavlos Lytsikas-Sarlis, MD<sup>2</sup>,  
Gregory Tsoucalas, MD, PhD<sup>3</sup> , and George Androutsos, MD, PhD<sup>4</sup>



Figure 1. Mathieu Jaboulay (1860-1913).

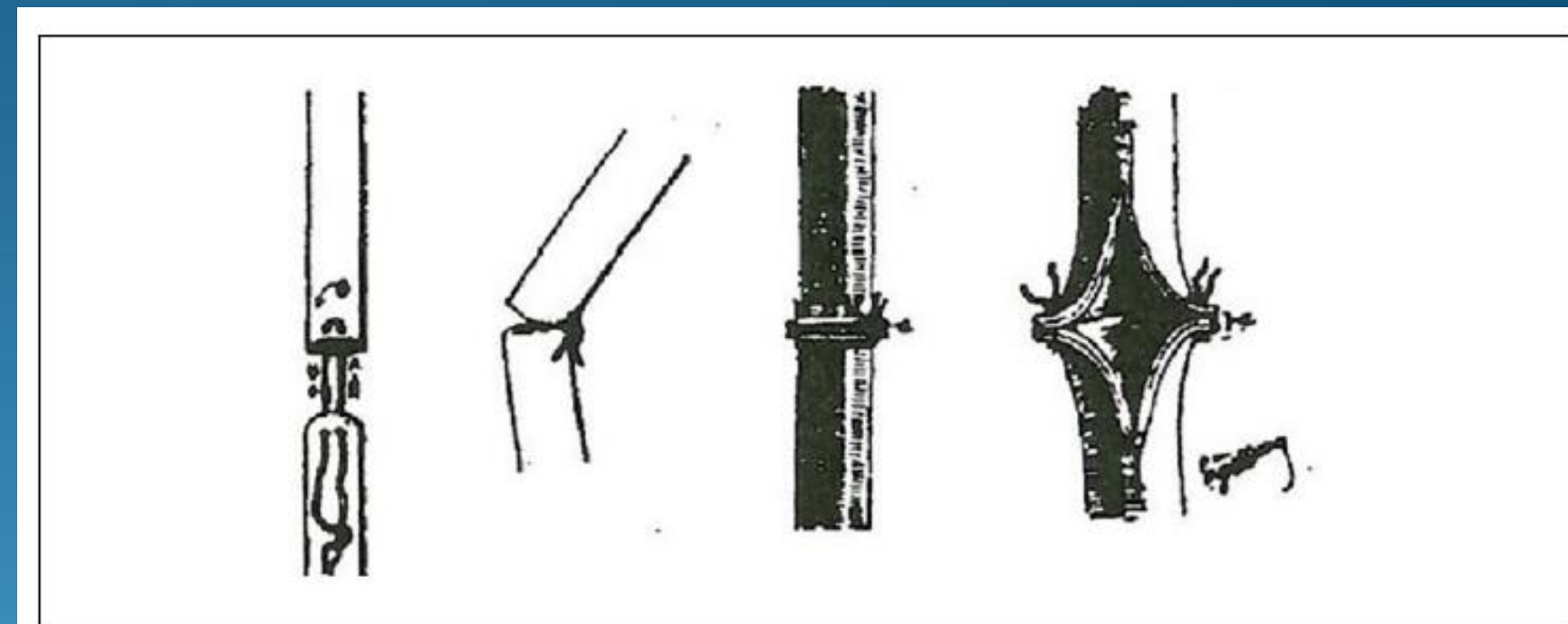


Figure 2. Jaboulay method.

Jaboulay M, Briau E. Recherches expérimentales sur la suture et la greffe artérielle. *Lyon Méd.* 1896;81:97-99.

Travailleurs de l'usine des freres Lumiere a Lyon

Auguste and Louis Lumière



243.032

BUREAU DES BREVETS D'INVENTION  
FRANÇAIS & ÉTRANGERS  
Créé en 1850

LÉPINETTE & RABILLOUD  
INGÉNIEURS  
LYON - 66, Avenue de Saxe (Cours Morand) - LYON

Brevet d'Invention de 15 ans

pour: "Appareil servant à l'obtention et à la  
vidion des épreuves chrono-photographiques"

Demande formée par:  
M<sup>rs</sup> Auguste Lumière  
et Louis Lumière

MÉMOIRE DESCRIPTIF

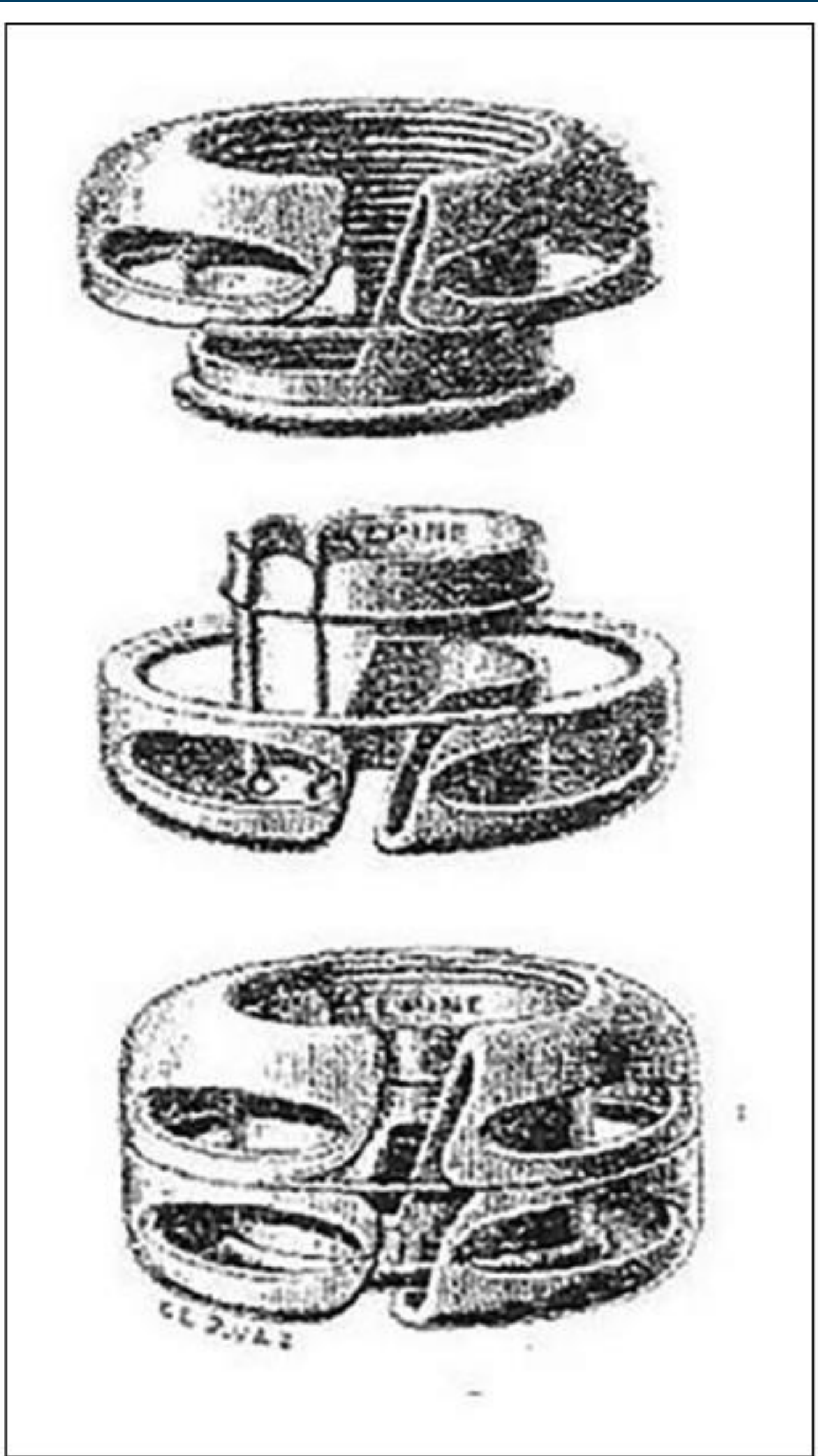
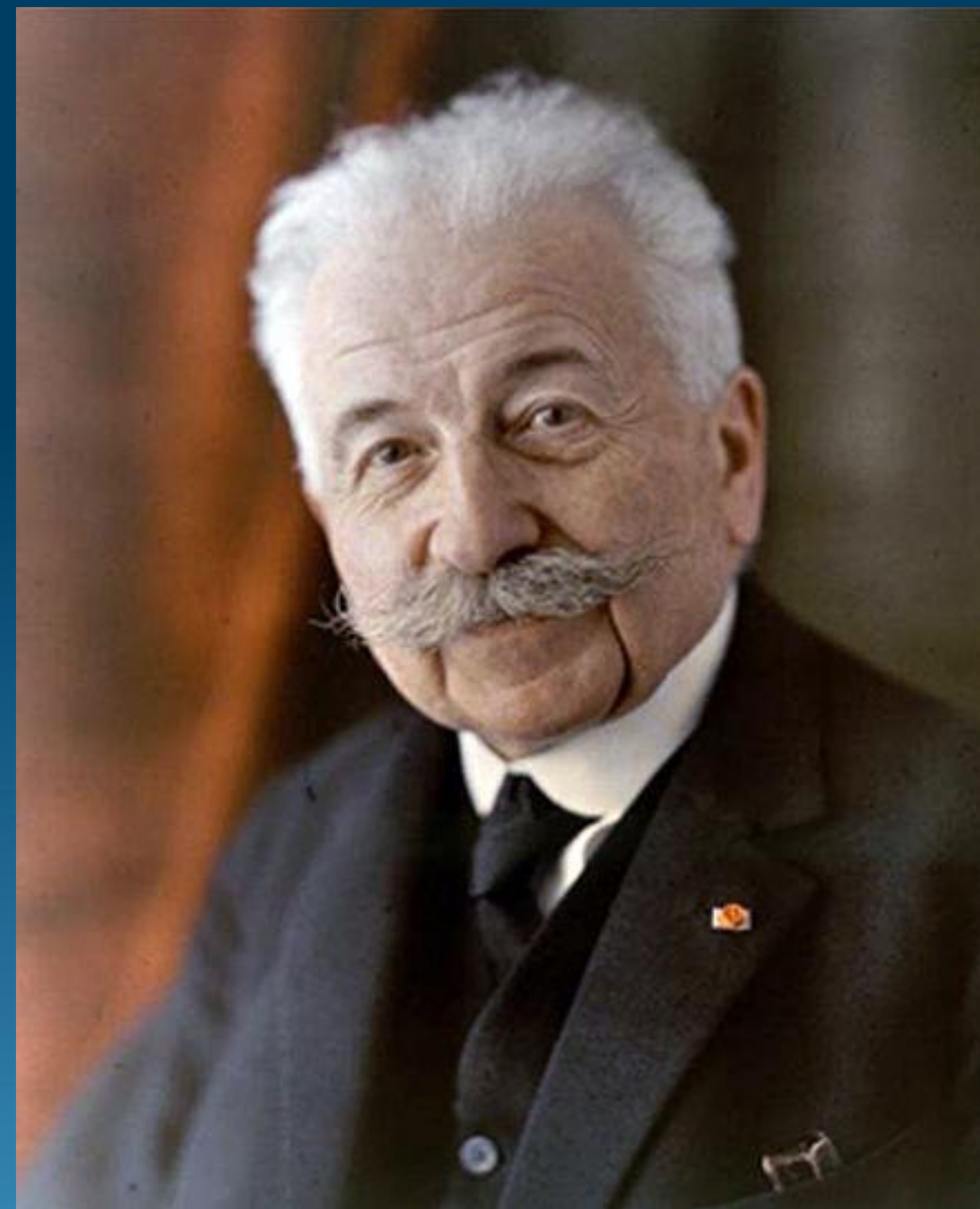


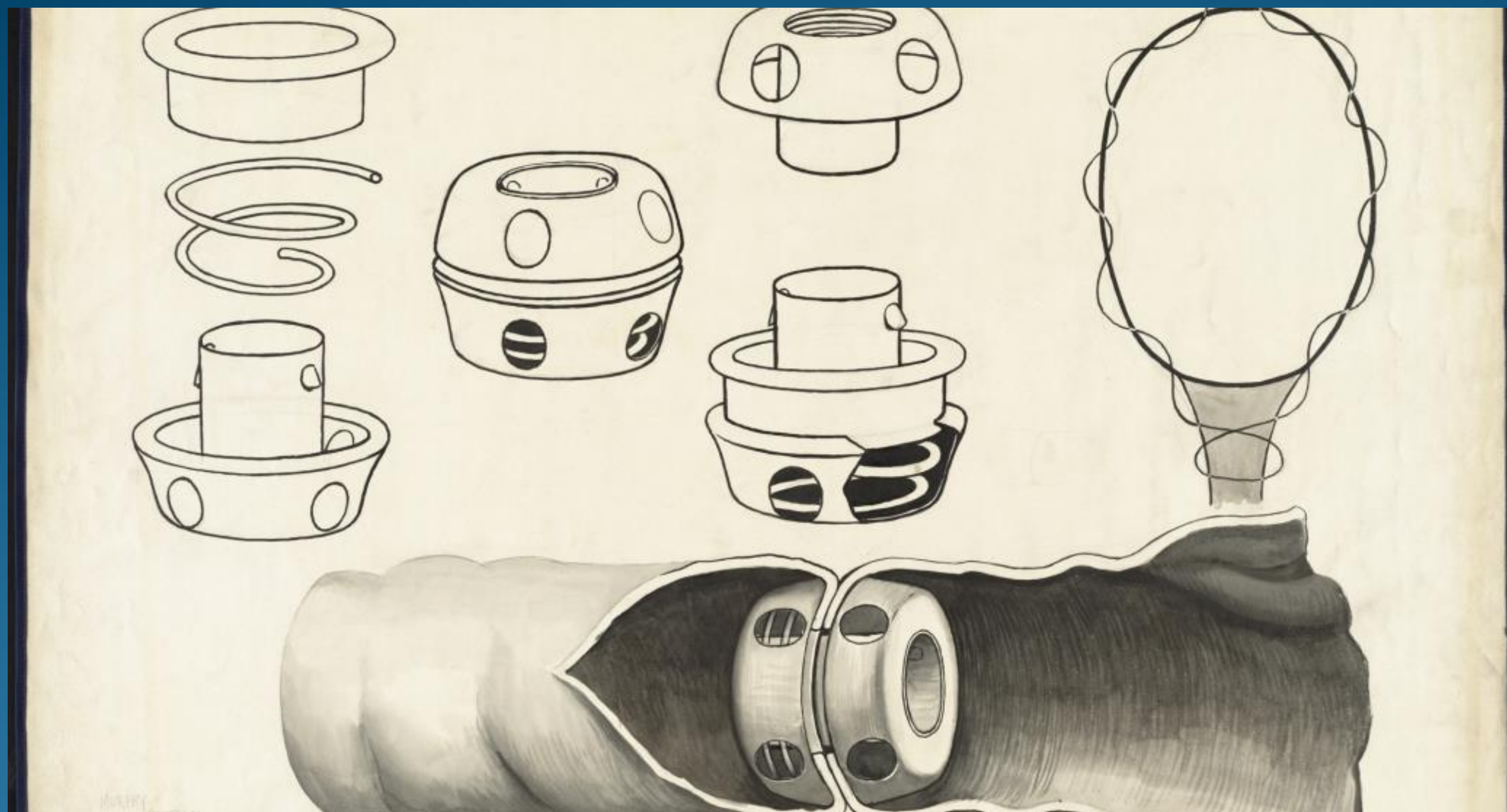
Figure 3. Jaboulay button.

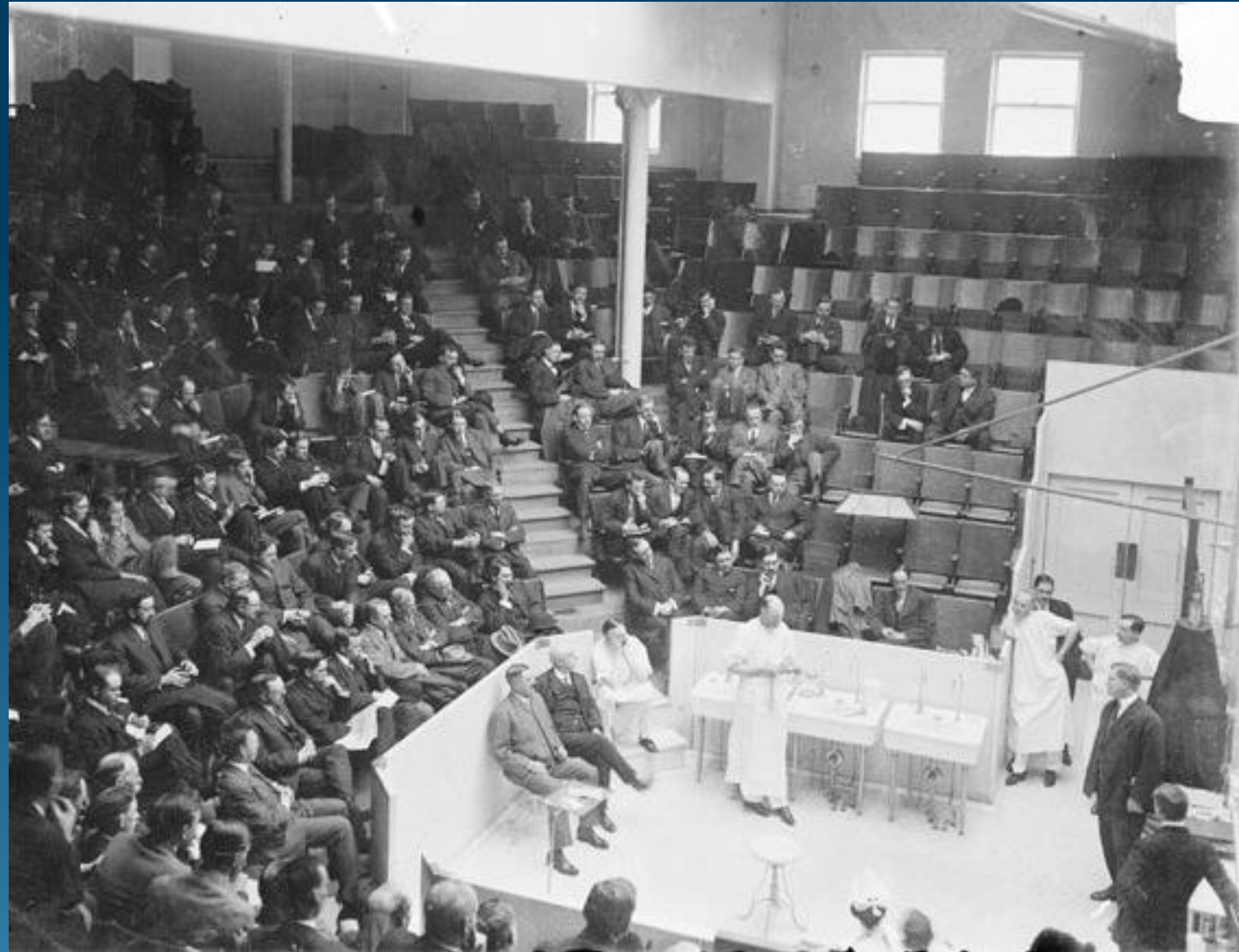


# Compression Anastomoses

## Murphy Button, 1892

**Murphy Button**  
The Murphy button, introduced by Dr. Murphy in 1892, was a major breakthrough in intestinal surgery. It allowed operations to be performed quickly and efficiently, reducing the risk of patient shock. The cap of each mushroom-shaped half was stitched to an intestinal opening and the stems were joined. As the sections of intestine healed together, the area directly attached to the metal button decayed, releasing it to be passed.



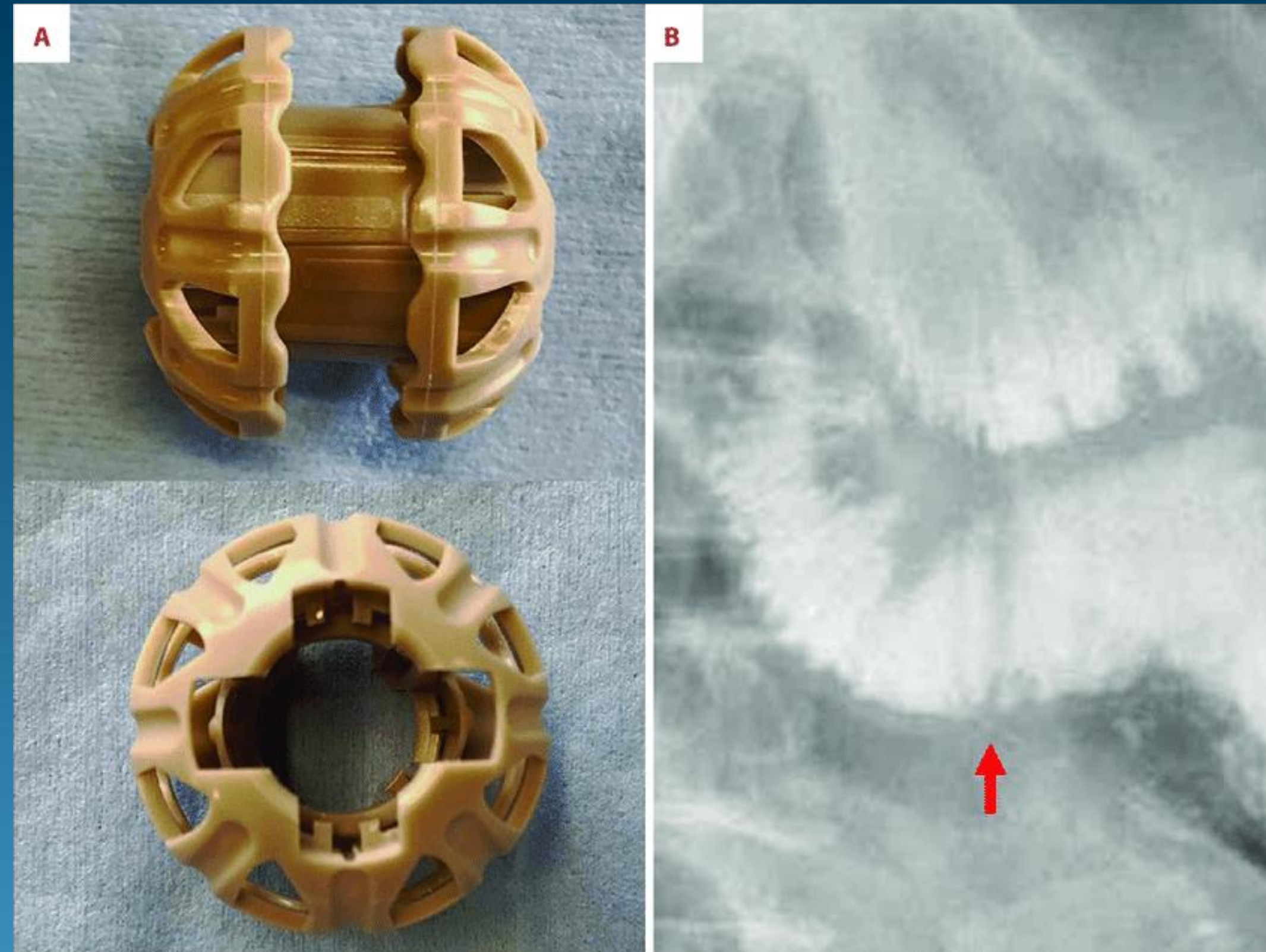
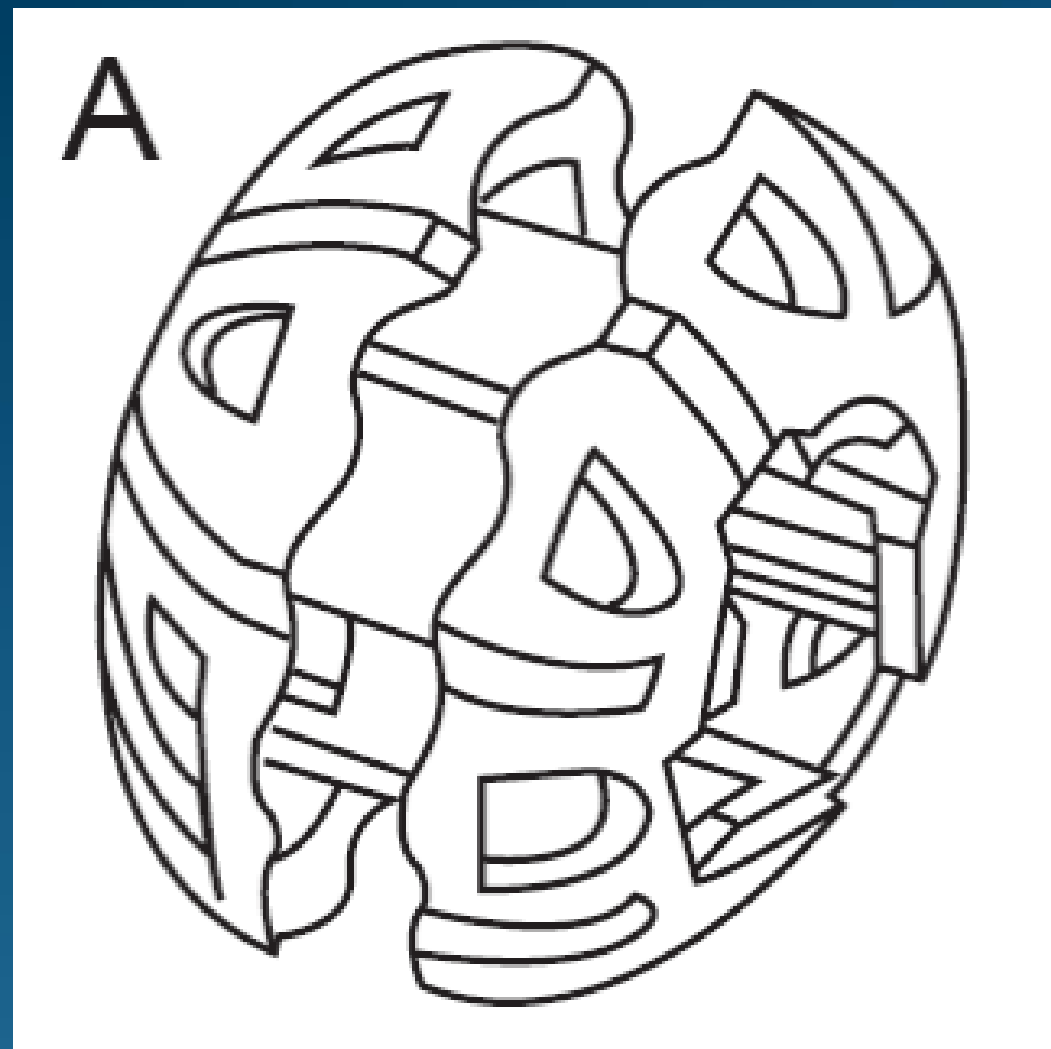


Murphy JB. Cholecysto-intestinal, gastro-intestinal, entero-intestinal anastomosis, and approximation without sutures. Med Rec (NY) 1892; 42: 665-676.



Valtrac 1984

BAR (Biofragmentable Anastomotic Ring) Valtrac® system



# Biliopancreatic Diversion with a Duodenal Switch

Douglas S. Hess MD, FACS; Douglas W. Hess MD

Wood County Hospital, Bowling Green, OH, USA

**Background:** This paper evaluates biliopancreatic diversion combined with the duodenal switch, forming a hybrid procedure which is a combination of restriction and malabsorption.

**Methods:** The evaluation is of the first 440 patients undergoing this procedure who had had no previous bariatric surgery. The mean starting weight was 183 kg, with 41% of our patients considered super morbidly obese (BMI > 50).

**Results:** There was an average maximum weight loss of 80% excess weight by 24 months post-

BPD without some of the associated problems. This operation is now used by us for all our bariatric patients, both in primary surgical procedures and reoperations.

The difficulty of establishing an operation that has both long- and short-term success is well known. Bariatric surgery is either restrictive or malabsorptive in nature, each with its own advantages, disadvantages and complications. While

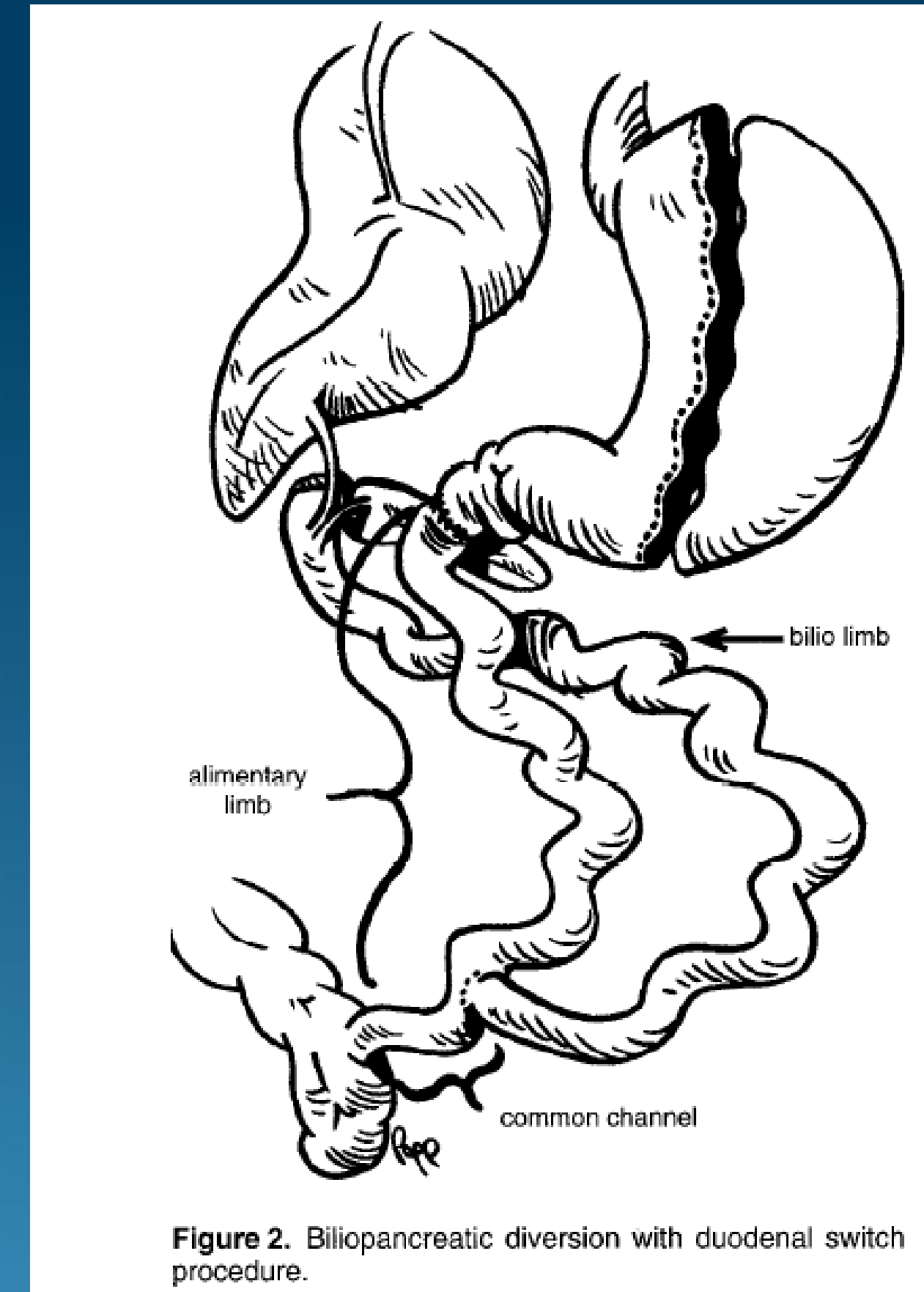


Figure 2. Biliopancreatic diversion with duodenal switch procedure.

**This is a secret:** Double small bowel compression anastomoses have been performed with the most difficult bariatric intervention In thousands of cases with little anastomotic morbidity since the '80s

and is anastomosed to this duodenum with a Valtrac anastomosing ring end-to-end using a 1.5 mm gap and a 25 mm diameter Valtrac. The mesentery is sutured to the posterior peritoneal wall to prevent internal hernias. The proximal ileum is taken distally to the previously marked area on the distal ileum and an end-to-side anastomosis is performed with a Valtrac anastomosing ring (1.5 mm gap and 25 mm diameter) and the mesentery is closed with a running suture.

# **DAT: Delayed Anastomosis Technology**

**Slow compression, avoiding leaks and bleeding**



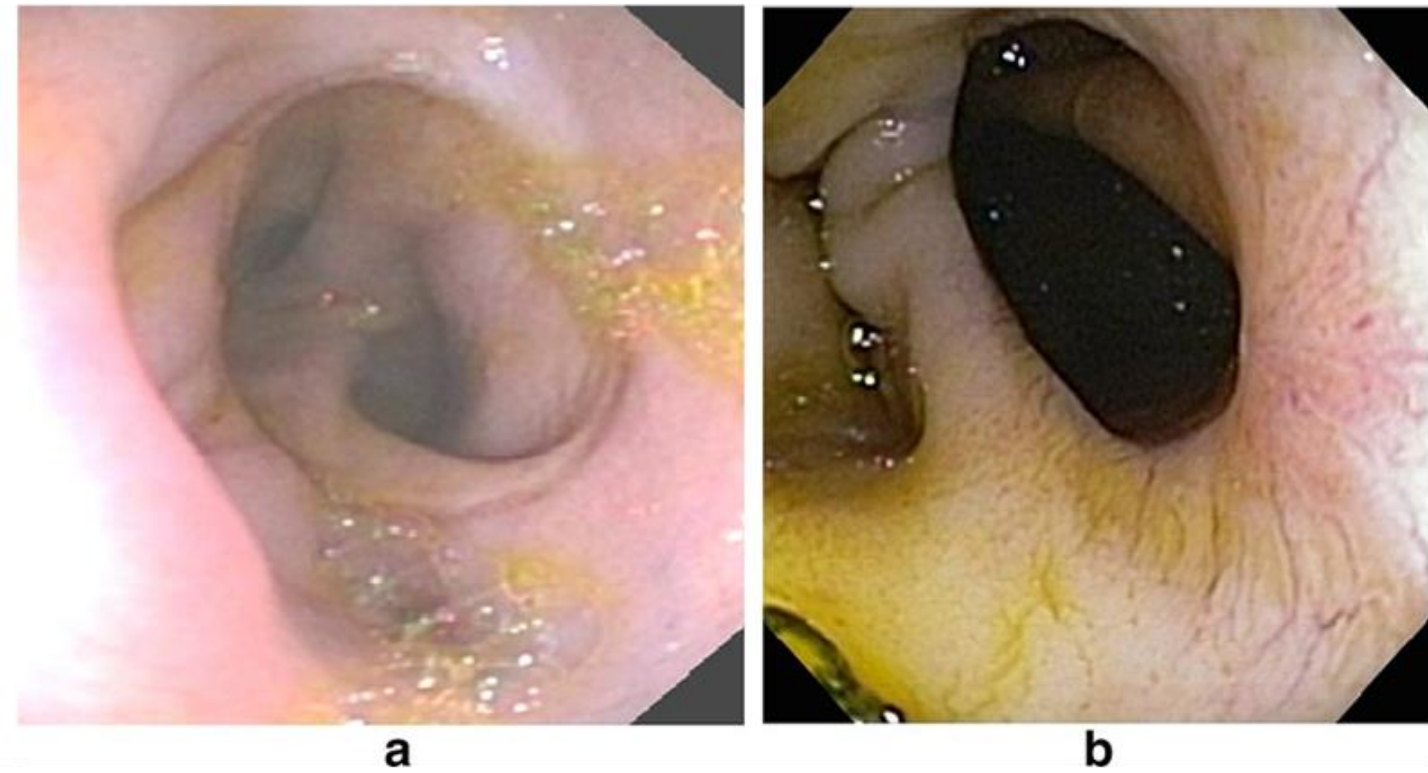
**RESEARCH ARTICLE**

**Open Access**

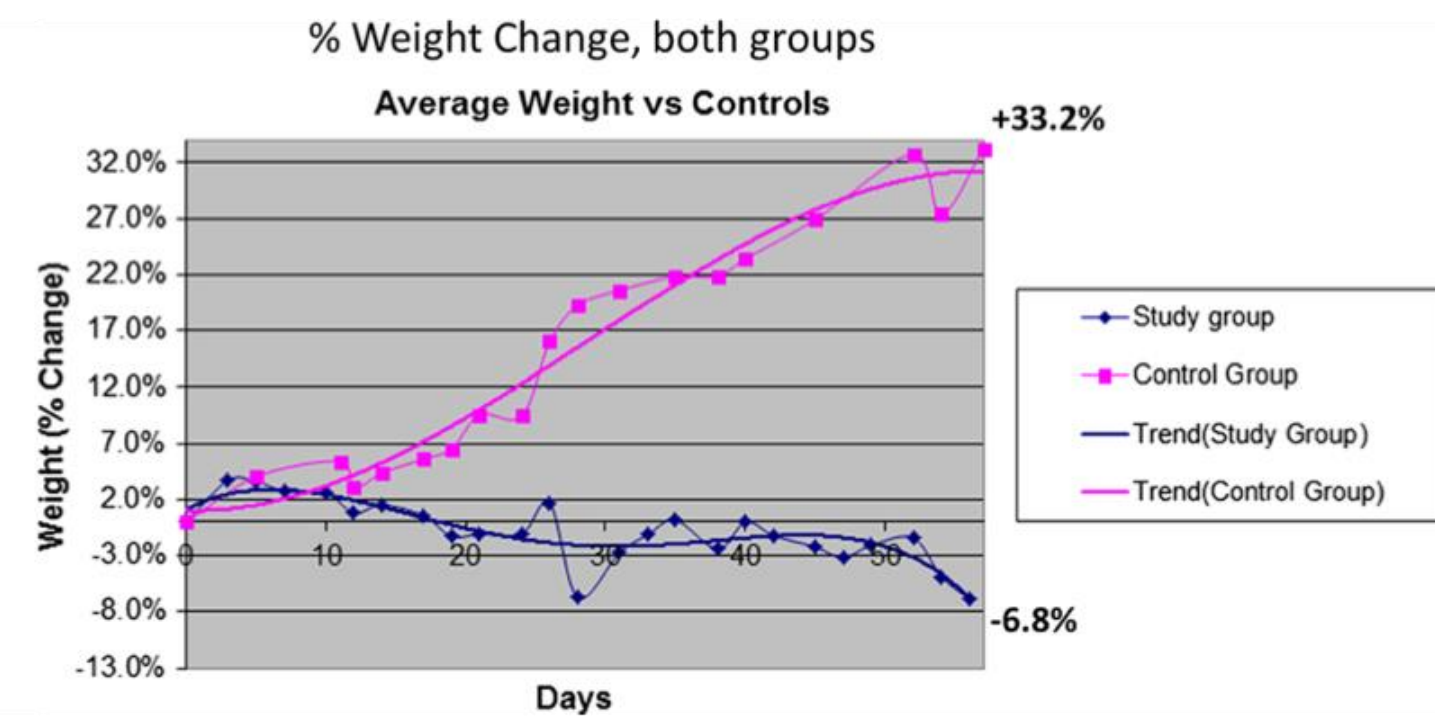


# Safety and efficacy of a side-to-side duodeno-ileal anastomosis for weight loss and type-2 diabetes: duodenal bipartition, a novel metabolic surgery procedure

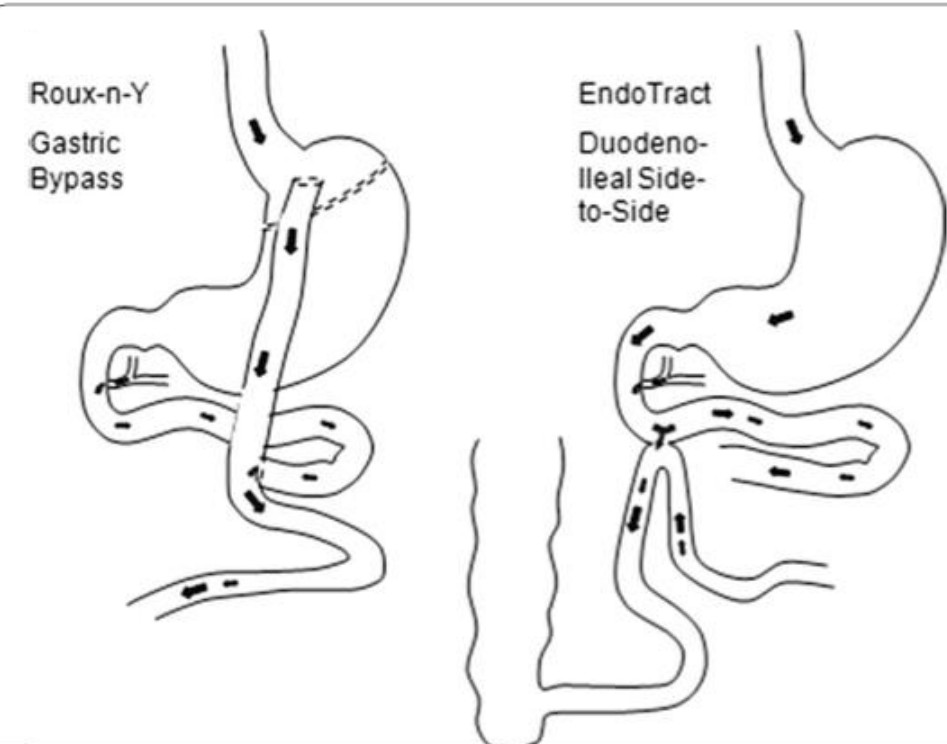
Michel Gagner\*



**Fig. 5 a** Duodenoscopy of the 3rd portion of the duodenum, showing a healed side-to-side duodeno-ileal anastomosis, with proximal ileum on the *right* and distal ileum on the *left* of the figure. **b** Duodenoscopy of the 3rd portion of the duodenum from a different animal, showing a healed side-to-side duodeno-ileal anastomosis, with distal duodenum on the far *right* of the figure



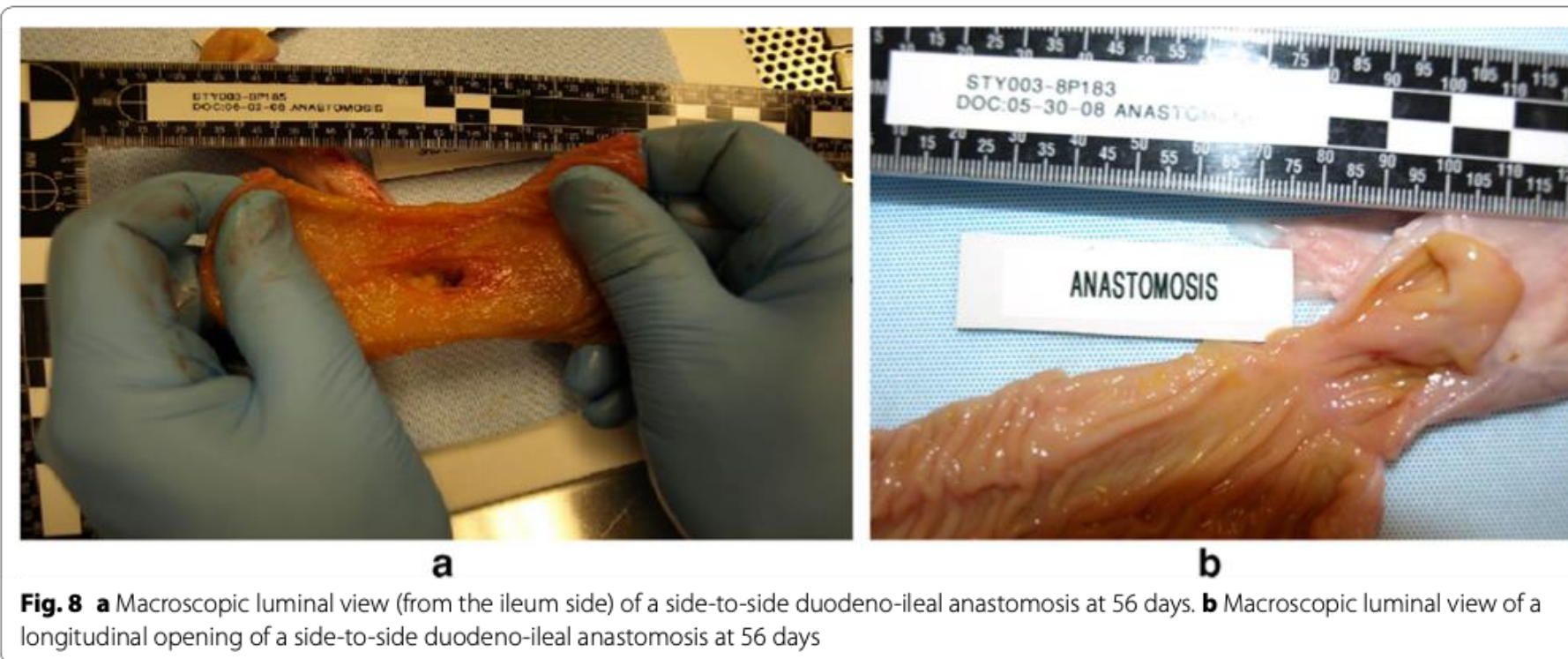
**Fig. 6** Graph of % of weight change in animals that had a side-to-side duodeno-ileal anastomosis (study group) versus sham controls, over time in days. At 56 days, control animals had gained 33.2 % of weight, while study animals had lost 6.8 % of weight



**Fig. 4** Comparison of digestive flow between a gastric bypass and a side-to-side duodeno-ileal anastomosis. Alimentary flow and biliopancreatic secretions are mixing in a Y channel (100–150 cm in mid jejunum) in a gastric bypass, while in a side-to-side duodeno-ileal anastomosis, the alimentary flow is divided between a regular jejuno-ileal channel and a distal ileal channel, and biliopancreatic secretions are mixing in the proximal duodenum



**Fig. 7** Macroscopic external view of a side-to-side duodeno-ileal anastomosis at 56 days

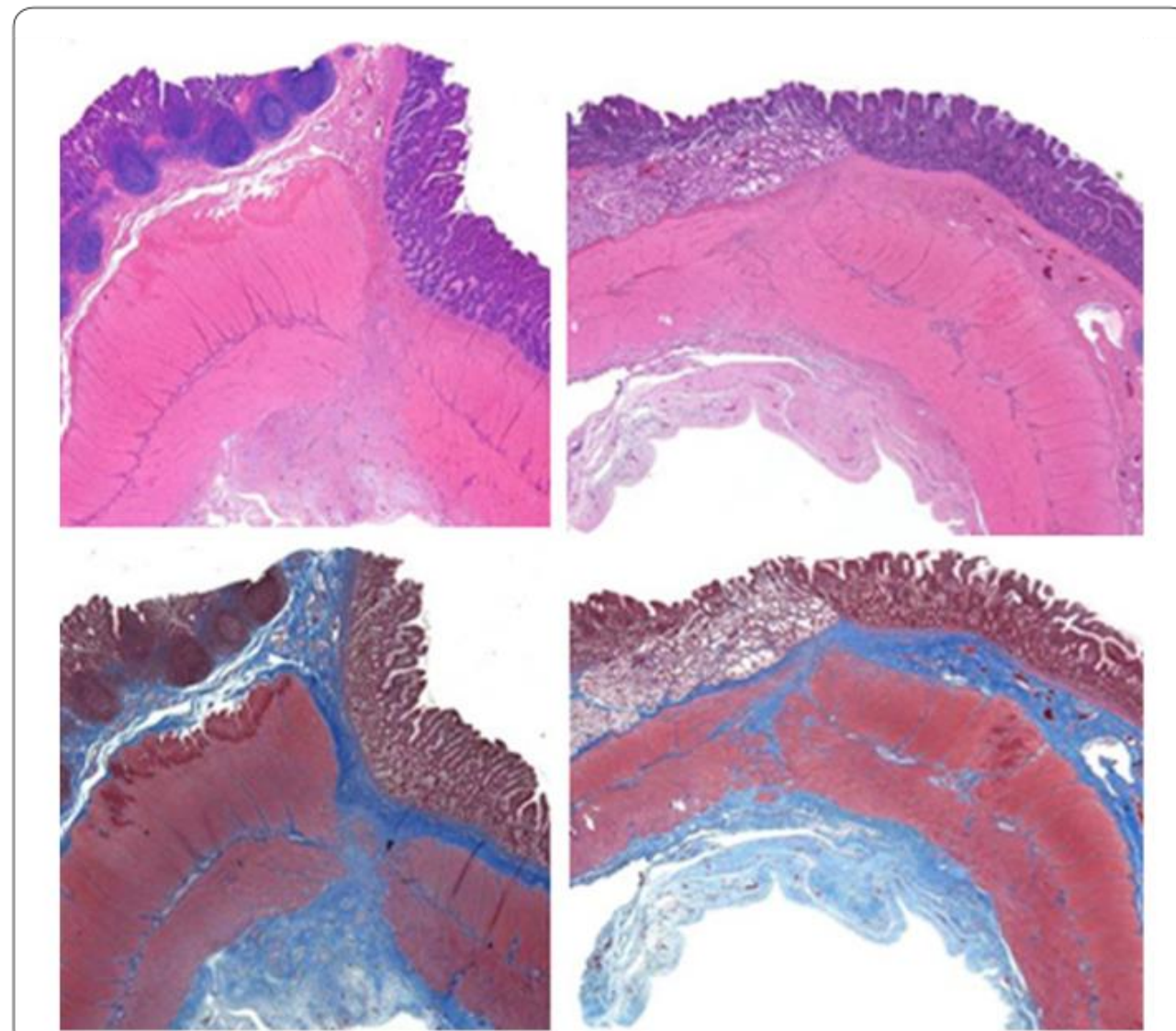


**Fig. 8** **a** Macroscopic luminal view (from the ileum side) of a side-to-side duodeno-ileal anastomosis at 56 days. **b** Macroscopic luminal view of a longitudinal opening of a side-to-side duodeno-ileal anastomosis at 56 days

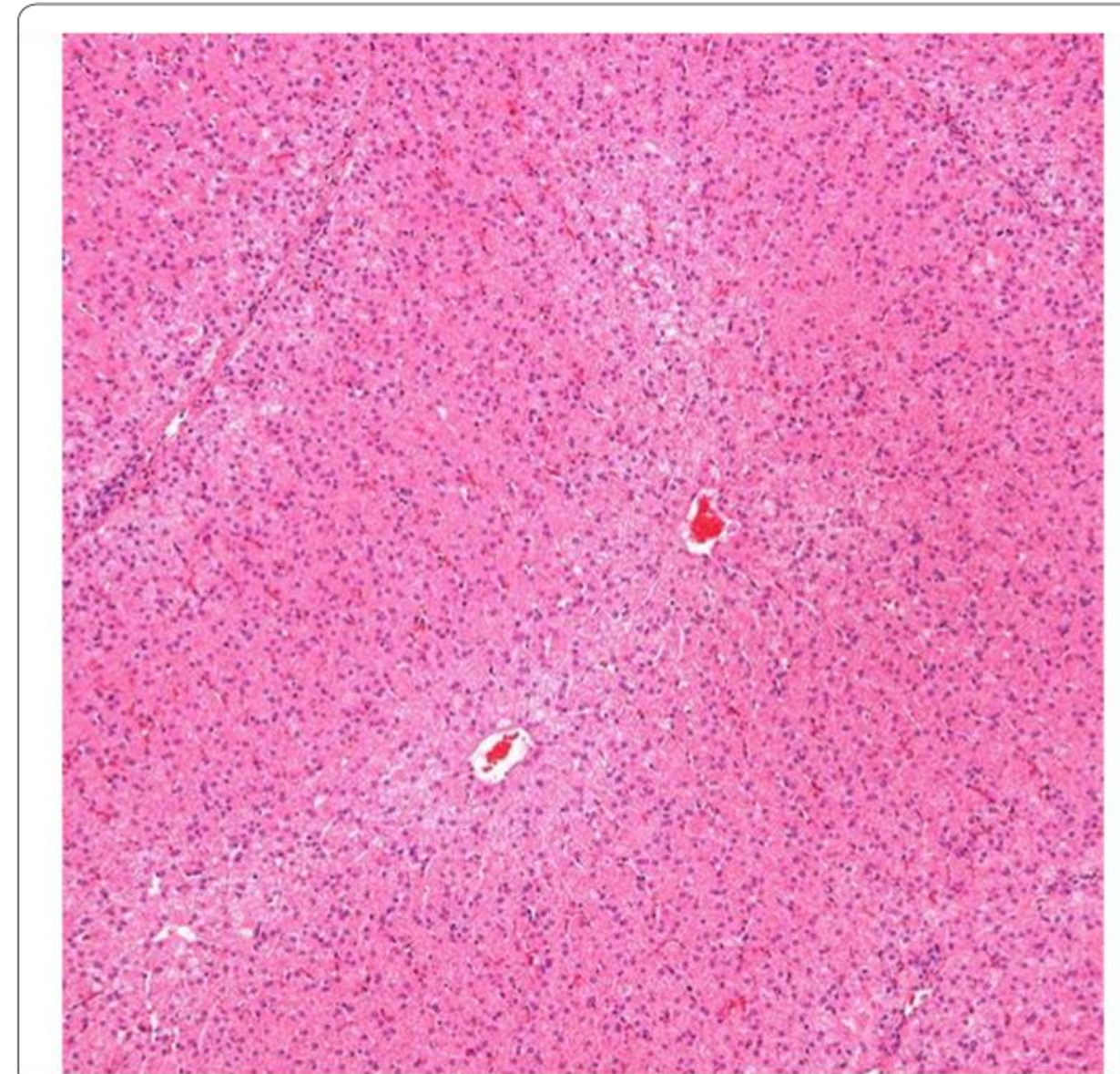
**Table 2** Mean values of serum biochemical profiles at baseline, day 3 and 56

	Time after duodenum-ileal anastomosis		
	Baseline	Day 3	Day 56
Glucose	75.75	101.25	88.50
AST	35.25	29.00	39.25
Total protein	6.53	6.40	5.05
Albumin	3.45	3.30	2.58
Urea N	5.00	8.75	15.00
Creatinine	1.38	1.30	1.15
Phosphorous	7.20	7.00	6.00
Calcium	10.23	9.60	9.10
Sodium	141.75	140.25	136.25
Potassium	3.65	3.80	4.25
Chloride	102.00	98.00	103.25
Bicarbonate	27.75	29.00	26.75
Gamma-GT	26.75	24.25	21.25

AST alamine serum transtferase, N nitrogen, GT glutamine transferase



**Fig. 10** **a–d** Longitudinal sections through the well healed duodenal-ileal anastomotic site. It appears that all layers of the intestine are apposed (muscular layers not closely apposed) although only a small portion of the ileal mucosa is present in the first section (**a, b**) and the mucosa overlying the anastomotic site is absent in the second section (**c, d**). Abundant fibrous connective tissue (*blue* in trichrome stain) separates the muscle layers of the two portions of the intestine. The serosa appears slightly edematous and serosal vessels appear prominent with perivascular edema. There is no evidence of infection, inflammation or dehiscence at the anastomotic site. All images— $\times 20$  magnification. **a, c** H & E stain; **b, d** Masson's trichrome stain

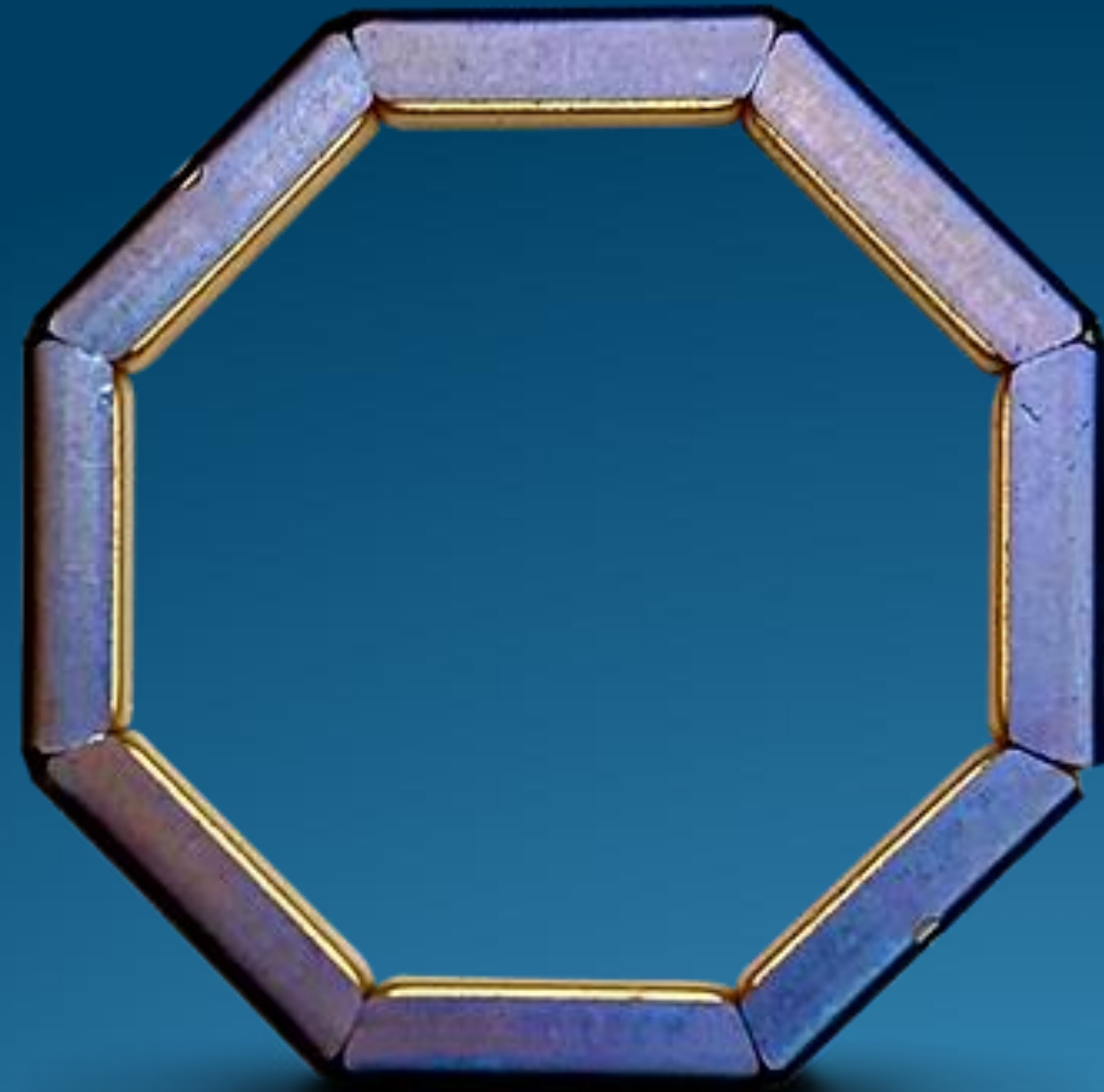


**Fig. 11** Liver histology at 56 days. Subtle centrilobular hepatocellular swelling and granularity (consistent with glycogen deposition) is noted in this animal. H & E stain,  $\times 100$  magnification



Linear





Octogonal



Circular

Obesity Surgery (2022) 32:932–933  
<https://doi.org/10.1007/s11695-021-05771-6>



LETTER TO THE EDITOR



## Duodeno-Ileal Anastomosis with Self-Assembling Magnets: Initial Concepts and Basis of This Operation

Michel Gagner<sup>1,2</sup> 

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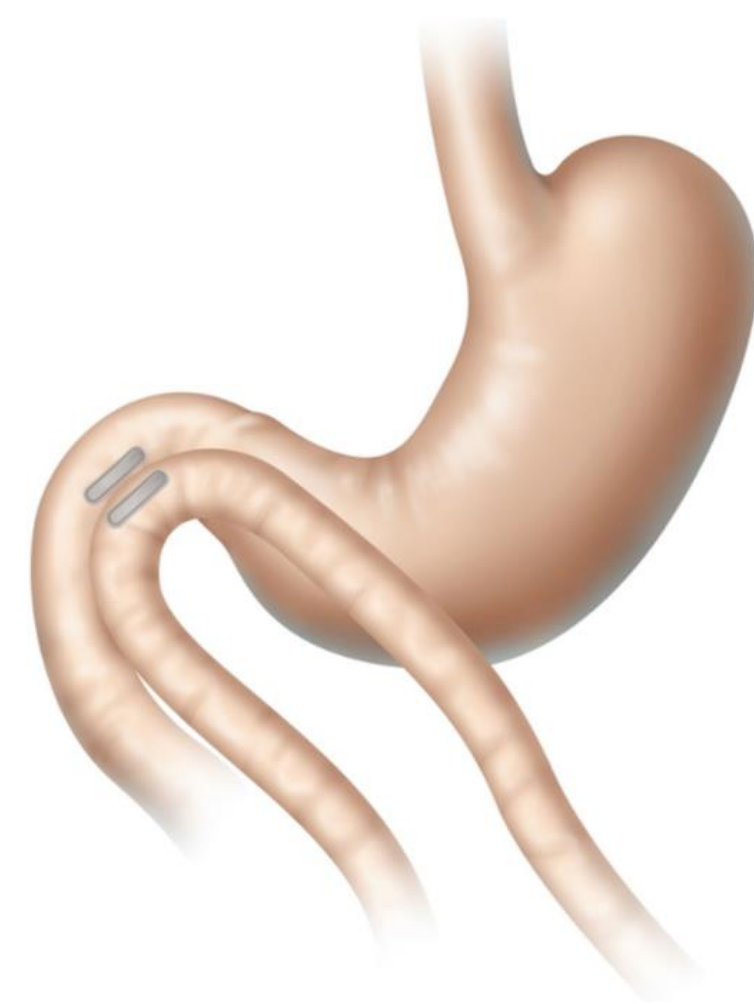


# Side-to-side duodeno-ileal magnetic compression anastomosis: design and feasibility of a novel device in a porcine model

Michel Gagner<sup>1</sup> · Todd Krinke<sup>2</sup> · Maxime Lapointe-Gagner<sup>1</sup> · J. N. Buchwald<sup>3</sup>

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**Fig. 1** Duodeno-ileal compression anastomosis by pairing of two linear magnets. The proximal magnet is positioned in the duodenum by gastroscopy and the distal magnet in the ileum by laparoscopy. After inter-magnet tissue compression and necrosis, the united magnets are expelled naturally

Surgical Endoscopy



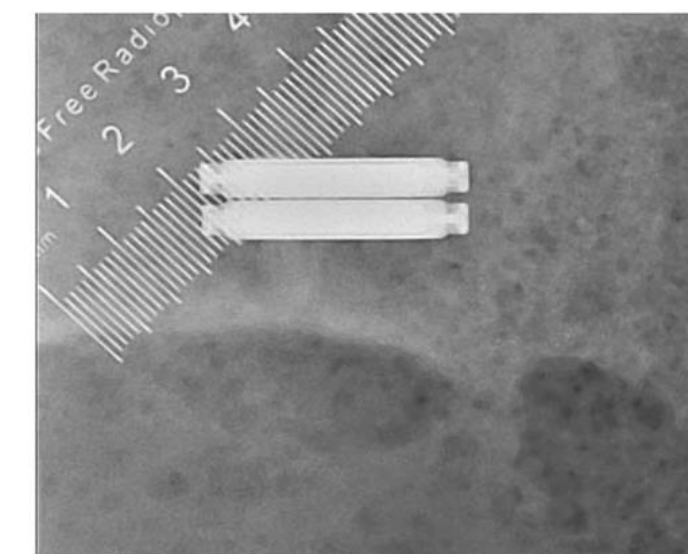
Anteroposterior negative



High magnification negative



Anteroposterior negative

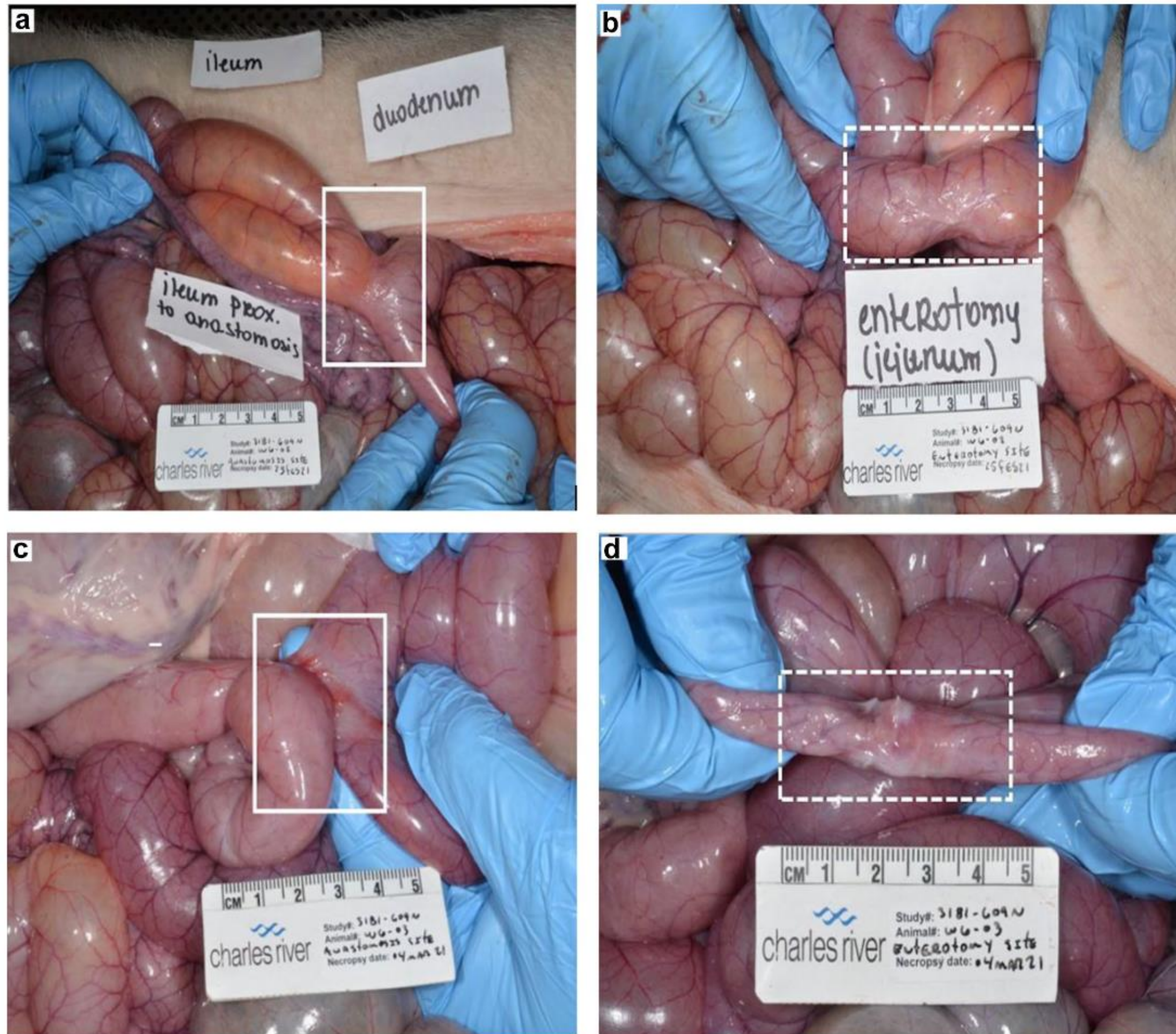


High magnification negative

**Fig. 3** Radiograph of magnetic compression anastomosis site in 4 animals, day of procedure

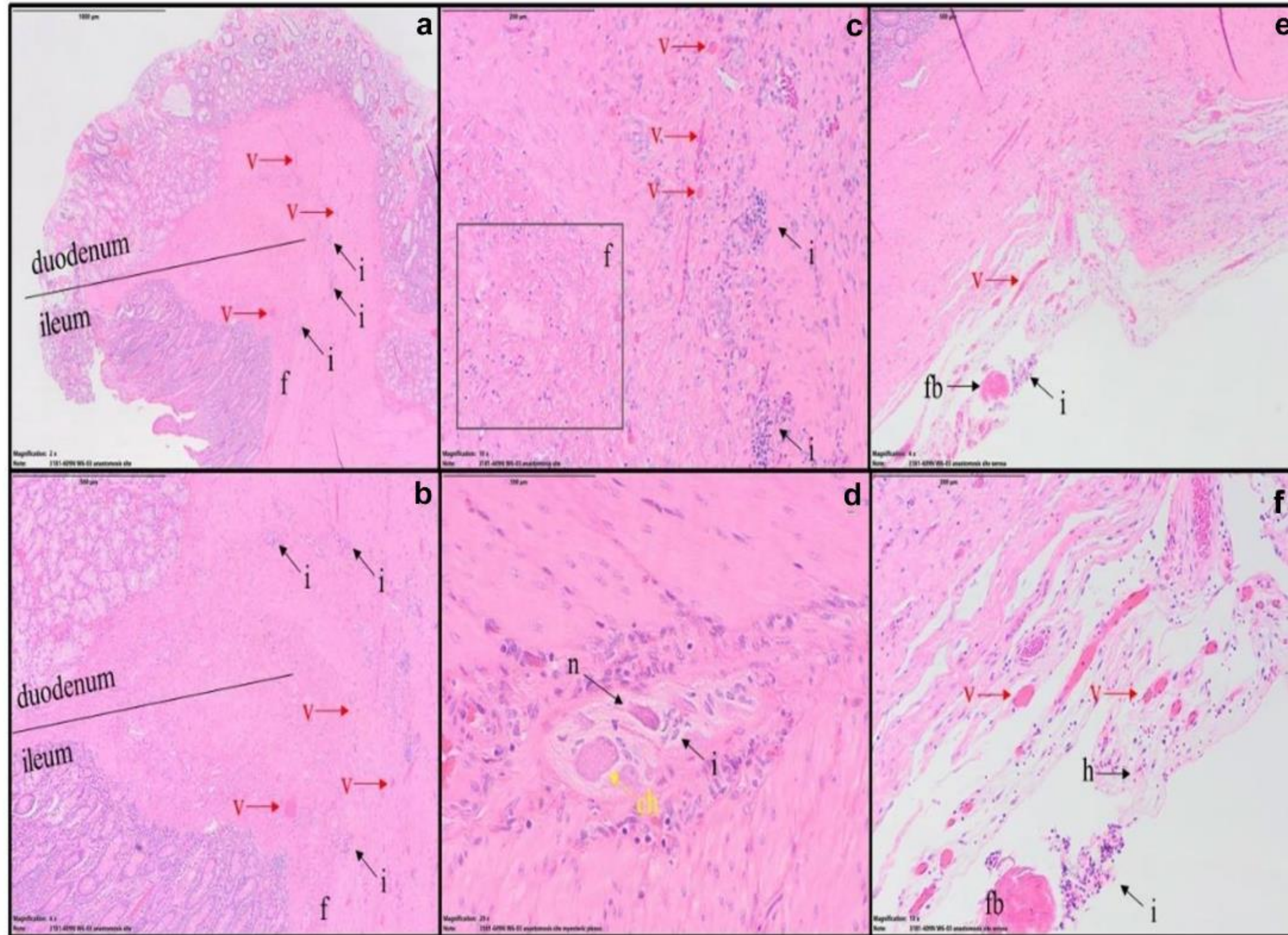


**Fig. 4** A patent porcine duodeno-ileostomy at 6 weeks, on the right the double lumen afferent and efferent ileal loop, and on the left the native duodenum. In duodenoscopy of the pig, the endoscope must rotate 360° in the stomach, inverting the image



**Fig. 5** Representative gross necropsy images of side-to-side duodeno-ileal (DI) magnetic compression anastomosis (MCA) and jejunal enterotomy (JE) sites. **a** Low magnification image of the serosal aspect of the side-to-side DI MCA site (white solid rectangle); **b** Low

magnification image of the serosal aspect of the JE site (white dashed rectangle); **c** Higher magnification of the serosal aspect of the side-to-side DI MCA (white rectangle); **d** Higher magnification view of the serosal aspect of the JE site (dashed, white rectangle)

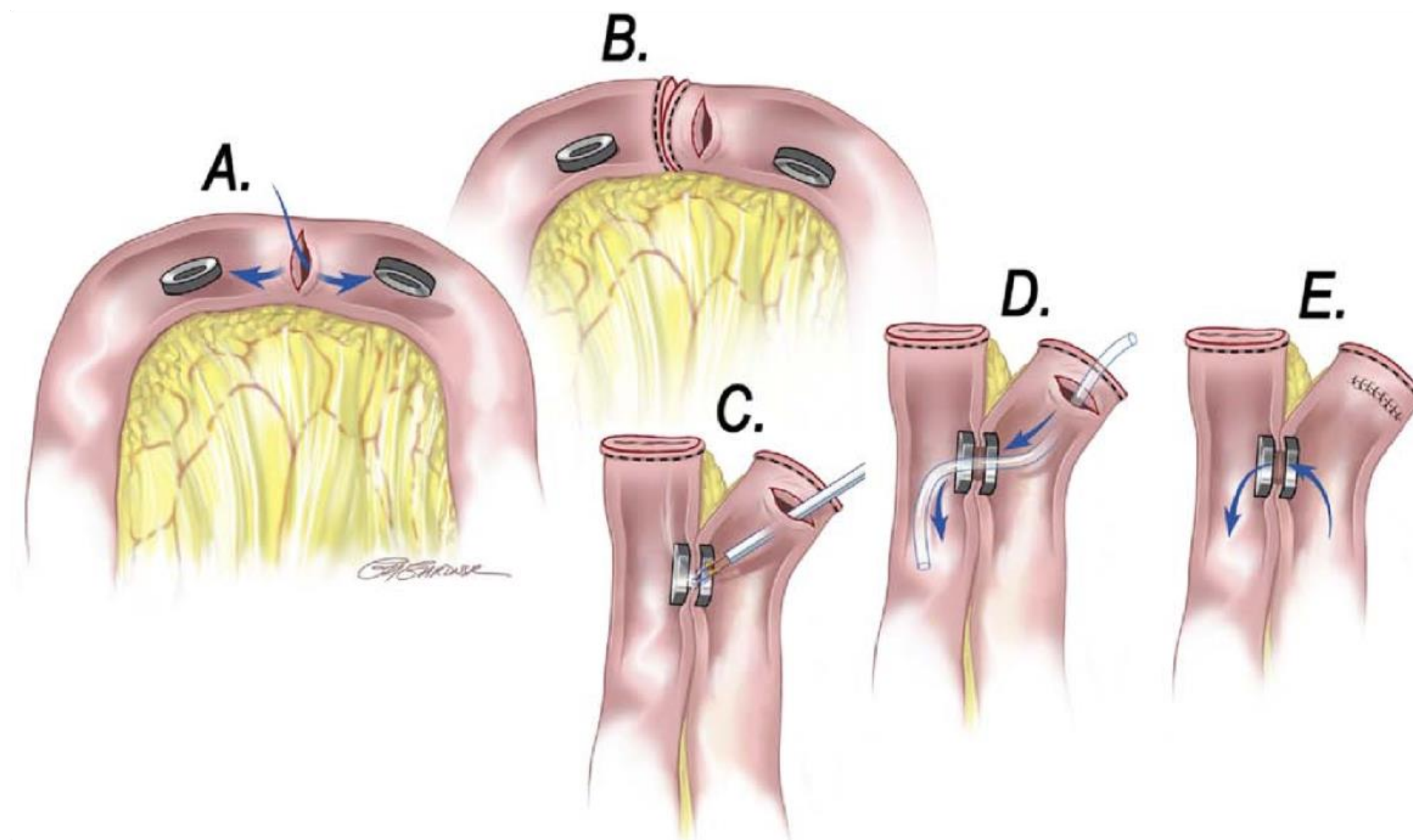


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# Magnamosis II: Magnetic Compression Anastomosis for Minimally Invasive Gastrojejunostomy and Jejunojejunostomy

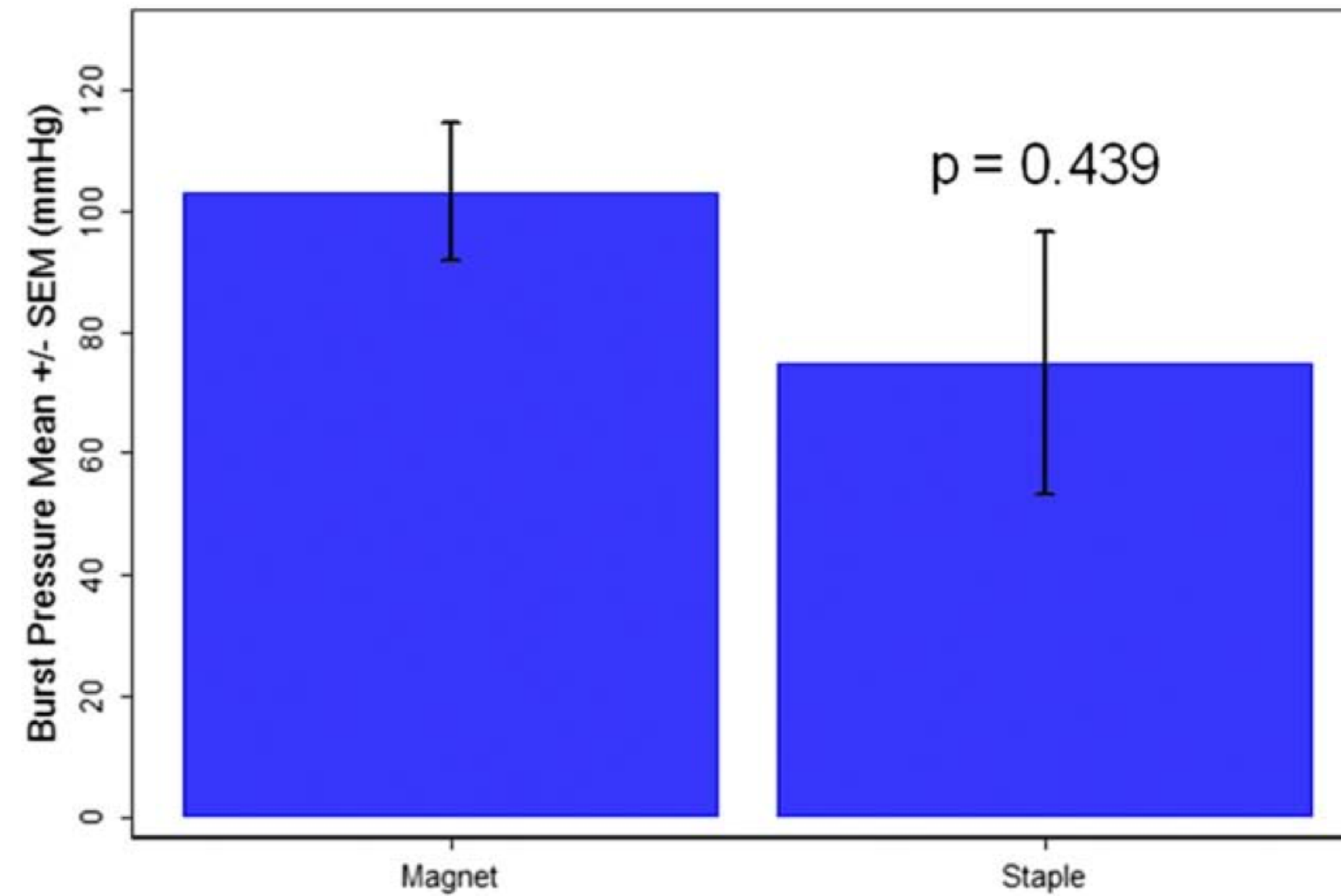
Kullada O Pichakron, MD, FACS, Eric B Jelin, MD, Shinjiro Hirose, MD, FACS, Patrick F Curran, MS, Ramin Jamshidi, MD, Jacob T Stephenson, MD, Richard Fechter, Michael Strange, MS, Michael R Harrison, MD, FACS

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**Figure 2.** Magnamosis technique: laparoscopic jejunojejunostomy. Courtesy of Gil Gardner.


# Burst Pressure is higher



**Figure 4.** Mechanical burst pressure testing: jejunojejunostomy.



# First-in-Human Side-to-Side Magnetic Compression Duodeno-ileostomy with the Magnet Anastomosis System

Michel Gagner<sup>1</sup>  · David Abuladze<sup>2</sup> · Levan Koiava<sup>2</sup> · J. N. Buchwald<sup>3</sup> · Nathalie Van Sante<sup>4</sup> · Todd Krinke<sup>5</sup>

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## Abstract

**Purposes** Classical gastrointestinal anastomoses are formed with sutures and/or metal staples, resulting in significant bleeding and leak rates. This study evaluated the feasibility and safety of the novel magnet anastomosis system (MS) to create a side-to-side duodeno-ileal (DI) diversion for weight loss and type 2 diabetes (T2D) resolution.

**Materials and Methods** Patients with severe obesity (body mass index (BMI)  $\geq 35$  kg/m<sup>2</sup> with/without T2D (HbA<sub>1c</sub>  $\geq 6.5\%$ )) underwent the study procedure, a side-to-side MS DI diversion, with a standard sleeve gastrectomy (SG). A linear magnet was delivered by flexible endoscopy to a point 250 cm proximal to the ileocecal valve; a second magnet was positioned in the first part of the duodenum; the bowel segments containing magnets were apposed, initiating gradual anastomosis formation. Laparoscopic assistance was used to obtain bowel measurements, obviate tissue interposition, and close mesenteric defects.

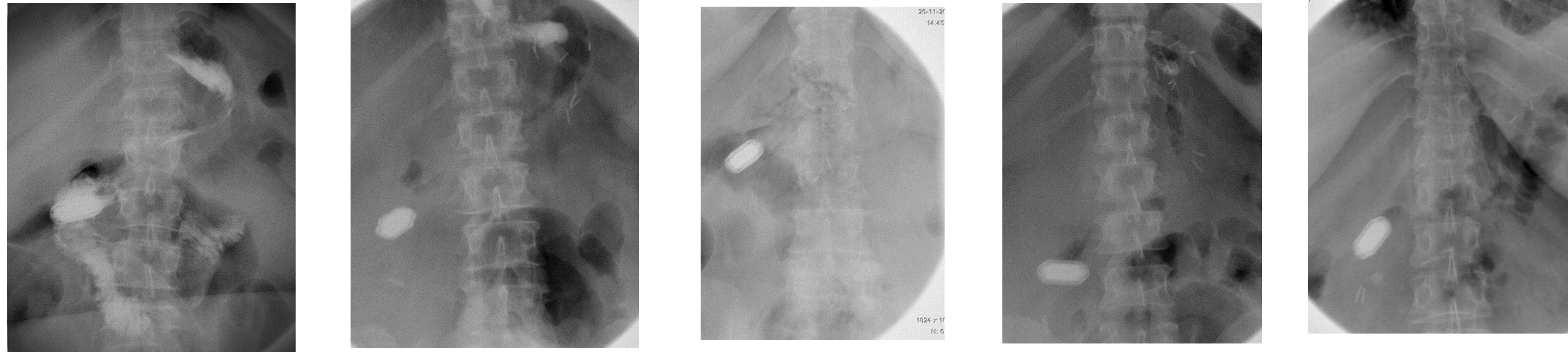
**Results** Between November 22 and 26, 2021, 5 female patients (mean weight  $117.6 \pm 7.1$  kg, BMI (kg/m<sup>2</sup>)  $44.4 \pm 2.2$ ) underwent side-to-side MS DI+SG. All magnets were successfully placed, expelled without re-intervention, and formed patent durable anastomoses. Total weight loss at 12 months was  $34.0 \pm 1.4\%$  (SEM); excess weight loss,  $80.2 \pm 6.6\%$ ; and BMI reduction, 15.1. Mean HbA<sub>1c</sub> (%) dropped from  $6.8 \pm 0.8$  to  $4.8 \pm 0.2$ ; and glucose (mg/dL), from  $134.3 \pm 17.9$  to  $87.3 \pm 6.3$  (mean reduction, 47.0 mg/dL). There was no anastomotic bleeding, leakage, obstruction, or infection and no mortality.

**Conclusions** Creation of a side-to-side magnetic compression anastomosis to achieve duodeno-ileostomy diversion in adults with severe obesity was feasible and safe, achieved excellent weight loss, and resolved type 2 diabetes at 1-year follow-up.

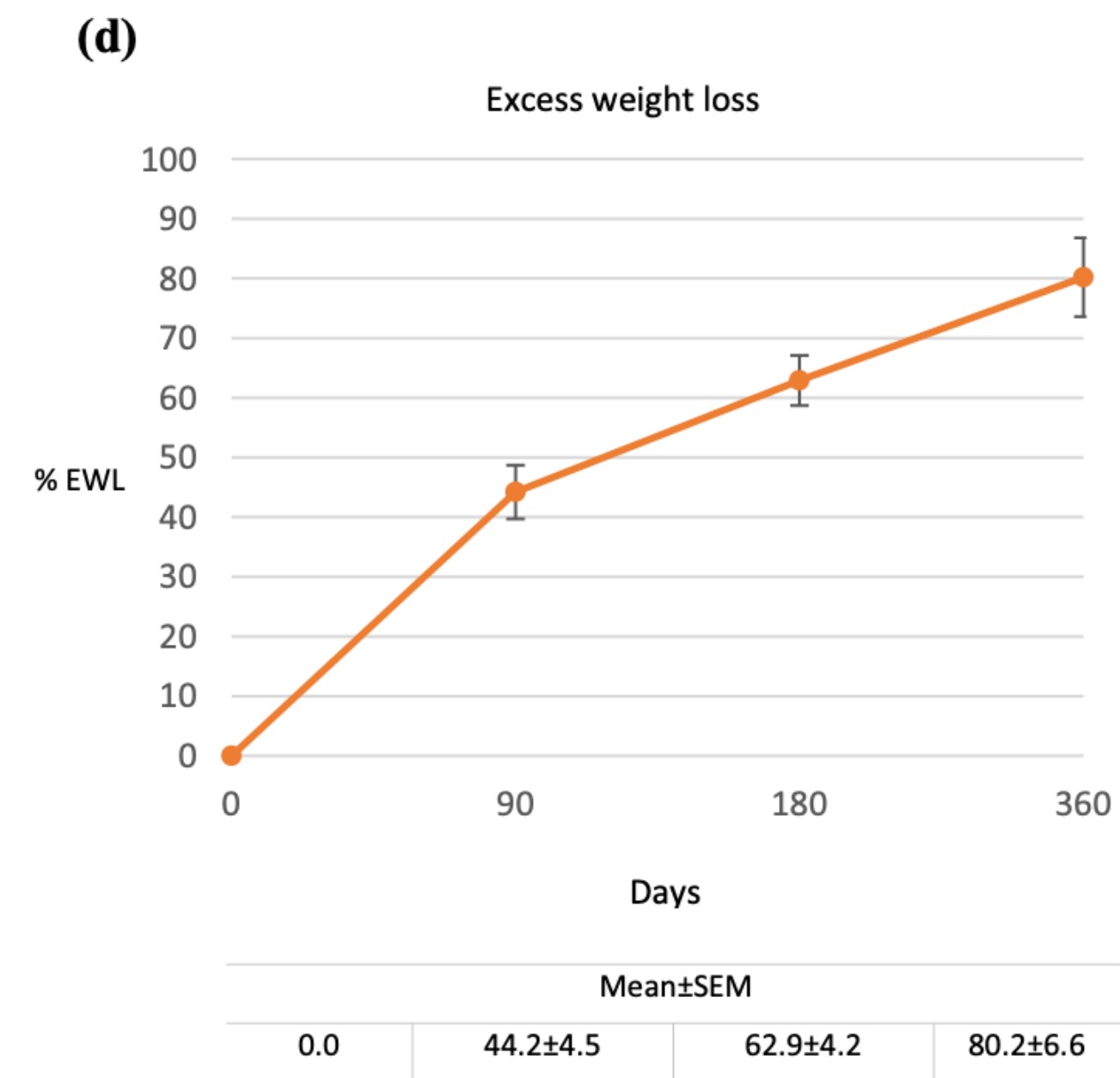
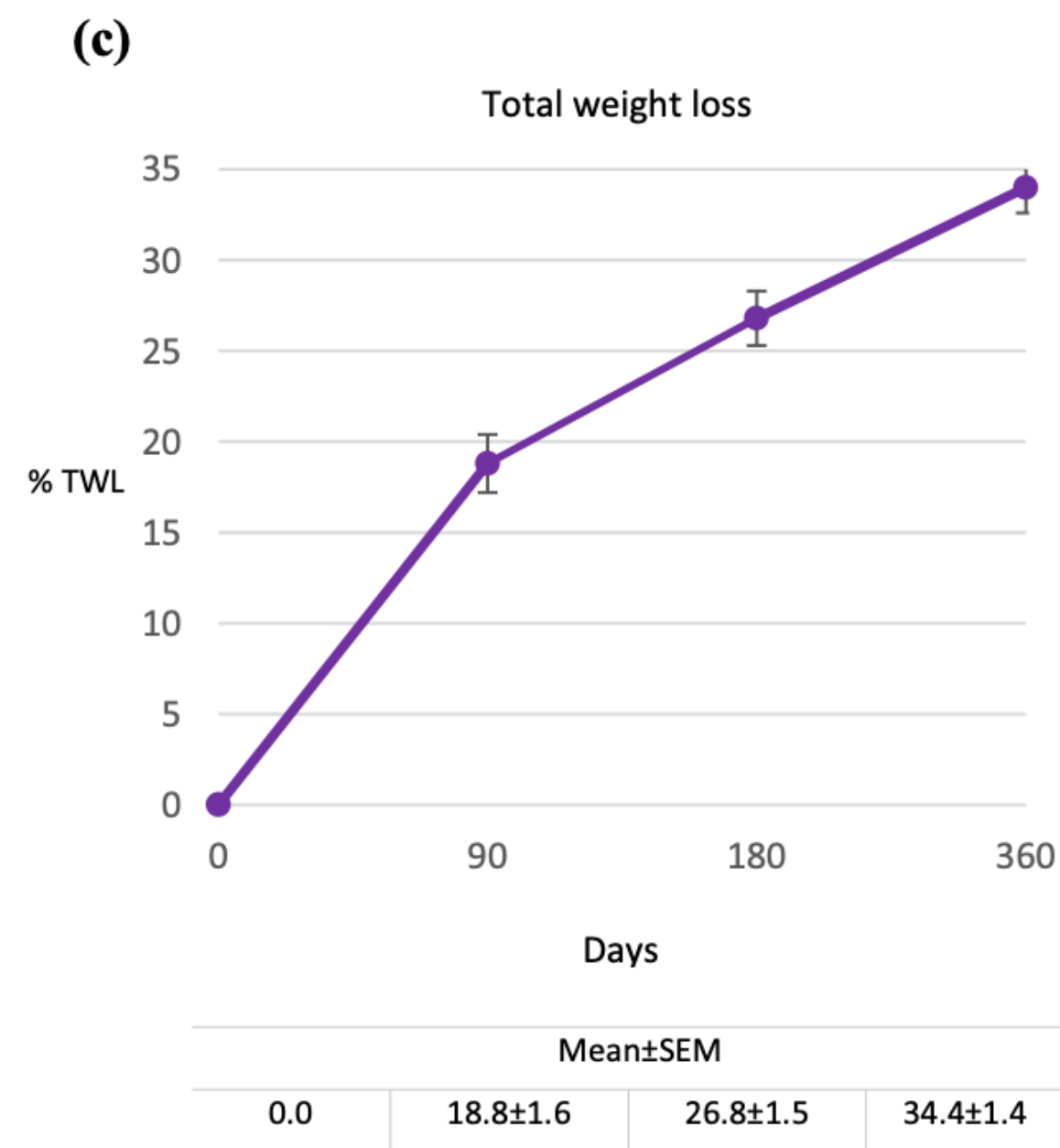
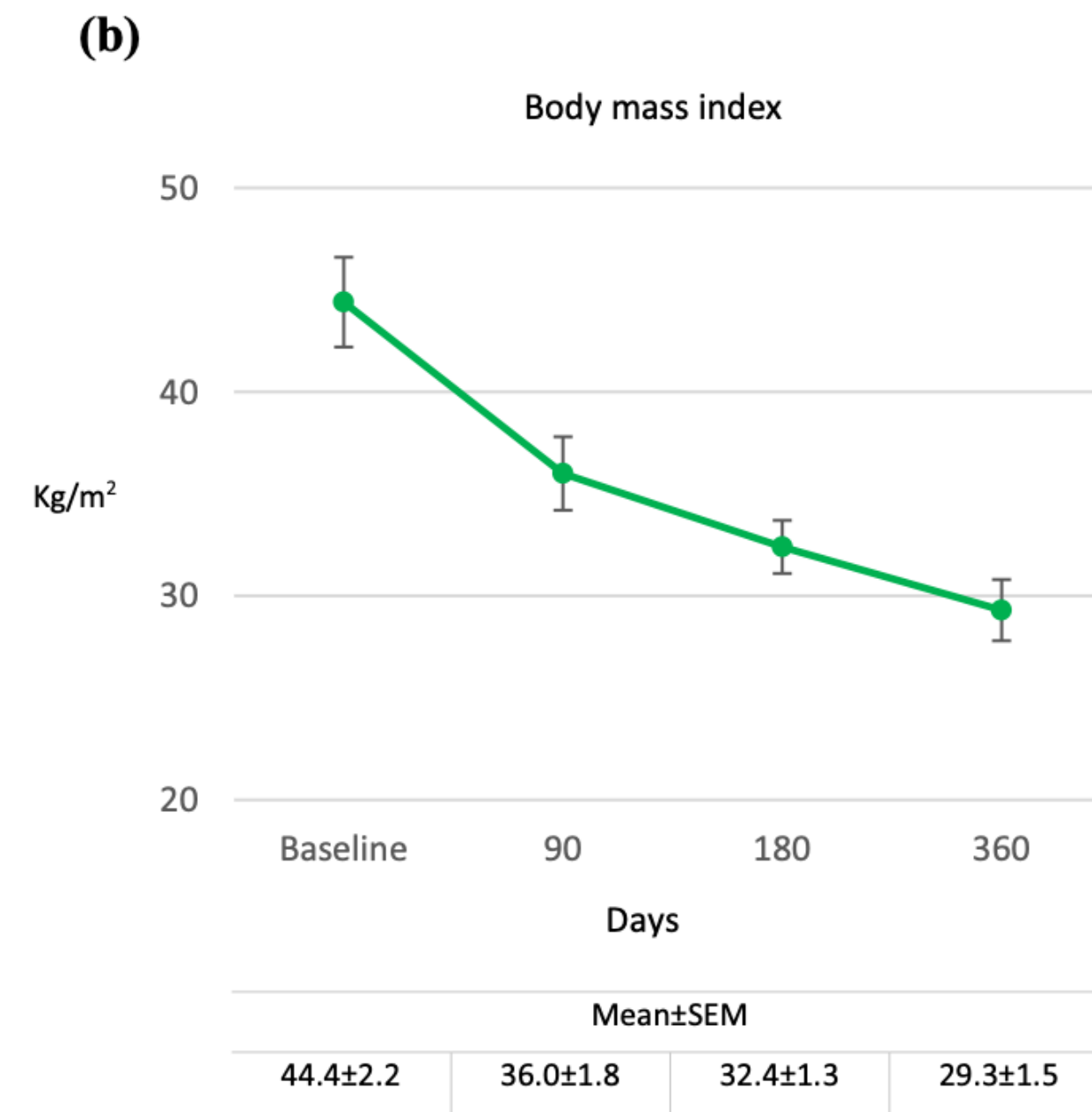
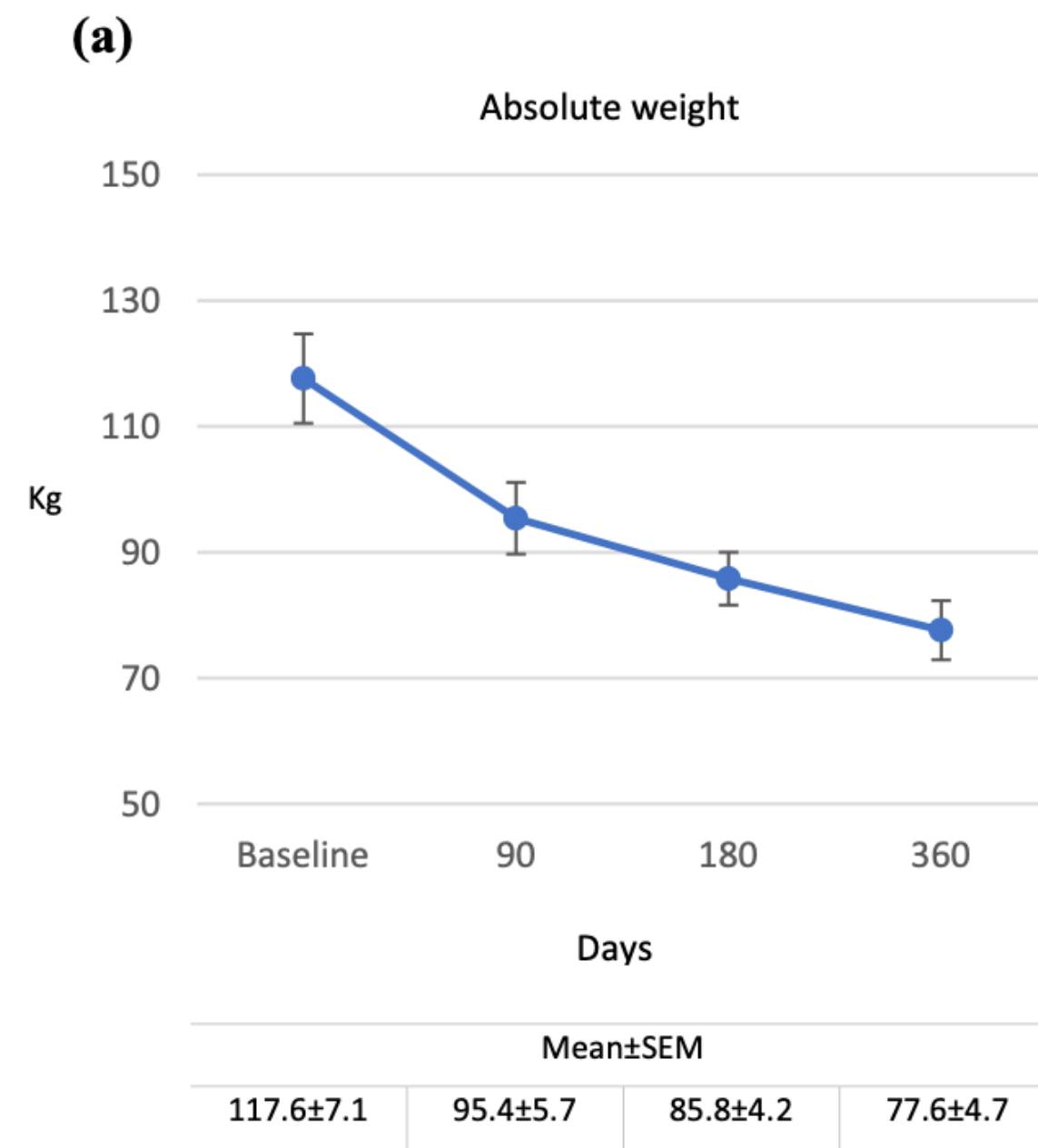
**Trial Registration** Clinicaltrials.gov Identifier: NCT05322122.



## The MAGNET System - Stage 1- Primary endpoint Device Delivery Success- Safety Population

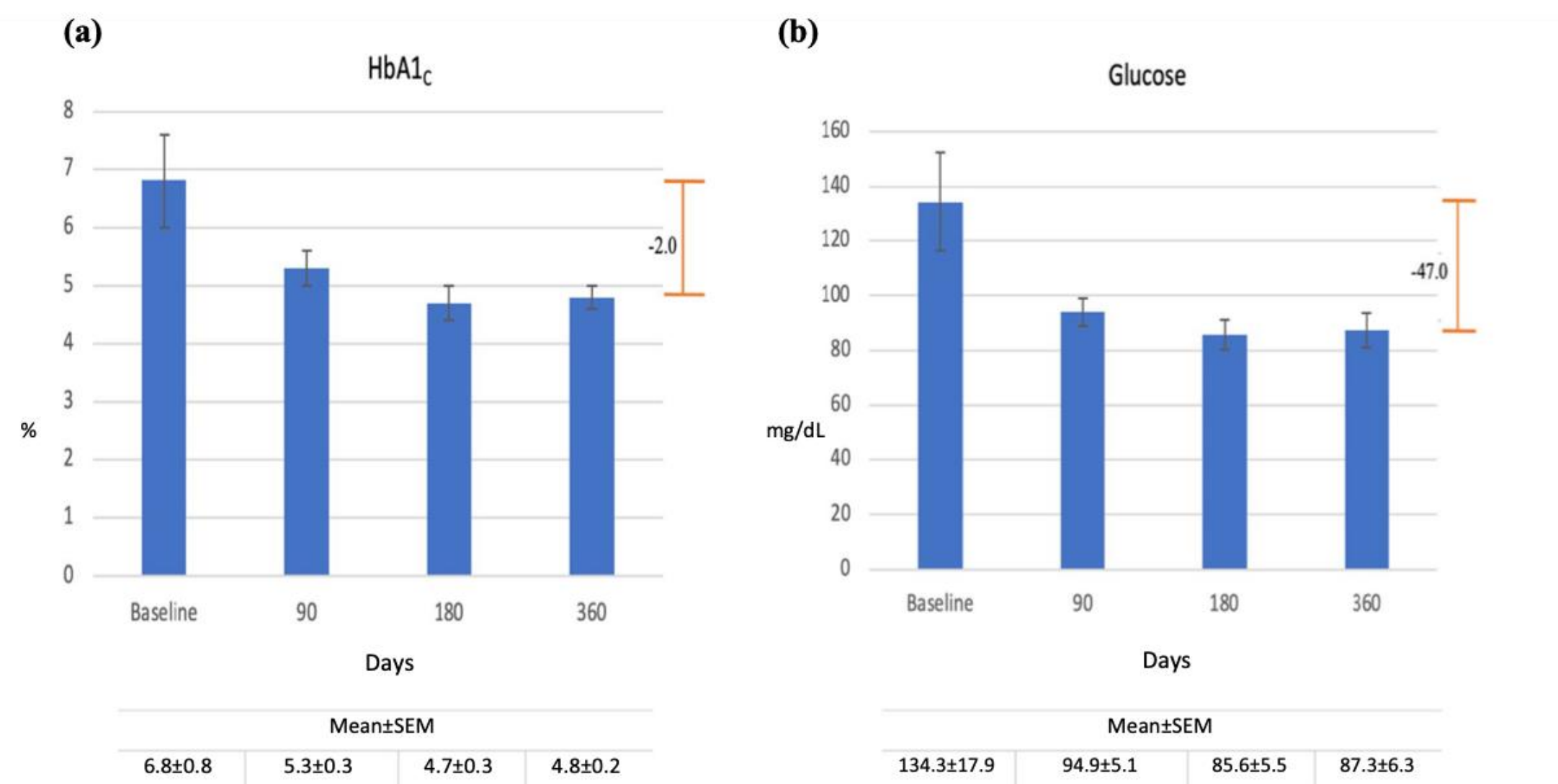


Procedure date	Duration of procedure mean in min (SD)	Placement of the magnet
22, 24, 25 and 26 November 2021	154 (24.48)	100%



**Table 2** Adverse events by number and severity post side-to-side magnet system duodeno-ileostomy with sleeve gastrectomy through day 360 by Clavien-Dindo Classification

Adverse event	All patients ( <i>N</i> =5) <i>n</i> (%)					Total
	Grade I	Grade II	Grade III	Grade IV	Grade V	
Mucosal tear of upper esophagus due to overtube insertion	1	0	0	0	0	1 (6.3)
Serosal tear of ileum (5 mm) due to laparoscopic forceps	0	0	1	0	0	1 (6.3)
Mild abdominal pain from procedure wounds	3	0	0	0	0	3 (18.8)
Intra-abdominal hematoma at sleeve staple line, upper left quadrant	0	1	0	0	0	1 (6.3)
Vitamin B <sub>12</sub> deficiency	3	2	0	0	0	5 (31.3)
Vitamin D deficiency	0	1	0	0	0	1 (6.3)
COVID-19 positive	3	0	0	0	0	3 (18.8)
Constipation	0	1	0	0	0	1 (6.3)
Number of adverse events	10 (62.6)	5 (31.2)	1 (6.2)	0 (0)	0 (0)	16 (100)





## Side-to-side magnet anastomosis system duodeno-ileostomy with sleeve gastrectomy: early multi-center results

Michel Gagner<sup>1,8</sup>  · Guy-Bernard Cadriere<sup>2</sup> · Andres Sanchez-Pernaute<sup>3</sup> · David Abuladze<sup>4</sup> · Todd Krinke<sup>5</sup> · J. N. Buchwald<sup>6</sup> · Nathalie Van Sante<sup>7</sup> · Marc Van Gossum<sup>2</sup> · Jana Dziakova<sup>3</sup> · Levan Koiava<sup>4</sup> · Maja Odovic<sup>3</sup> · Mathilde Poras<sup>2</sup> · Lamees Almutlaq<sup>1</sup> · Antonio J. Torres<sup>3</sup>

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### Abstract

**Introduction** Gastrointestinal anastomoses with classical sutures and/or metal staples have resulted in significant bleeding and leak rates. This multi-site study evaluated the feasibility, safety, and preliminary effectiveness of a novel linear magnetic compression anastomosis device, the Magnet System (MS), to form a side-to-side duodeno-ileostomy (DI) diversion for weight loss and type 2 diabetes (T2D) resolution.

**Methods** In patients with class II and III obesity (body mass index [BMI, kg/m<sup>2</sup>] ≥ 35.0–≤ 50.0 with/without T2D [HbA1C > 6.5%]), two linear MS magnets were delivered endoscopically to the duodenum and ileum with laparoscopic assistance and aligned, initiating DI; sleeve gastrectomy (SG) was added. There were no bowel incisions or retained sutures/staples. Fused magnets were expelled naturally. Adverse events (AEs) were graded by Clavien-Dindo Classification (CDC).

**Results** Between November 22, 2021 and July 18, 2022, 24 patients (83.3% female, mean ± SEM weight 121.9 ± 3.3 kg, BMI 44.4 ± 0.8) in three centers underwent magnetic DI. Magnets were expelled at a median 48.5 days. Respective mean BMI, total weight loss, and excess weight loss at 6 months (n = 24): 32.0 ± 0.8, 28.1 ± 1.0%, and 66.2 ± 3.4%; at 12 months (n = 5), 29.3 ± 1.5, 34.0 ± 1.4%, and 80.2 ± 6.6%. Group mean respective mean HbA1c and glucose levels dropped to 1.1 ± 0.4% and 24.8 ± 6.6 mg/dL (6 months); 2.0 ± 1.1% and 53.8 ± 6.3 mg/dL (12 months). There were 0 device-related AEs, 3 procedure-related serious AEs. No anastomotic bleeding, leakage, stricture, or mortality.

**Conclusion** In a multi-center study, side-to-side Magnet System duodeno-ileostomy with SG in adults with class III obesity appeared feasible, safe, and effective for weight loss and T2D resolution in the short term.



ELSEVIER



Surgery for Obesity and Related Diseases 20 (2024) 341–353

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SURGERY FOR OBESITY  
AND RELATED DISEASES

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Original article

## Side-to-side magnetic duodeno-ileostomy in adults with severe obesity with or without type 2 diabetes: early outcomes with prior or concurrent sleeve gastrectomy

Michel Gagner, M.D.<sup>a,\*</sup>, Lamees Almutlaq, M.D.<sup>a</sup>, Guy-Bernard Cadere, M.D., Ph.D.<sup>b</sup>,  
Antonio J. Torres, M.D., Ph.D.<sup>c</sup>, Andres Sanchez-Pernaute, M.D., Ph.D.<sup>c</sup>,  
Jane N. Buchwald, B.A.<sup>d</sup>, David Abuladze, M.D.<sup>e</sup>

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<sup>c</sup>*Department of Surgery, Hospital Clinico San Carlos, Madrid, Spain*

<sup>d</sup>*Medwrite Medical Communications, Maiden Rock, Wisconsin, USA*

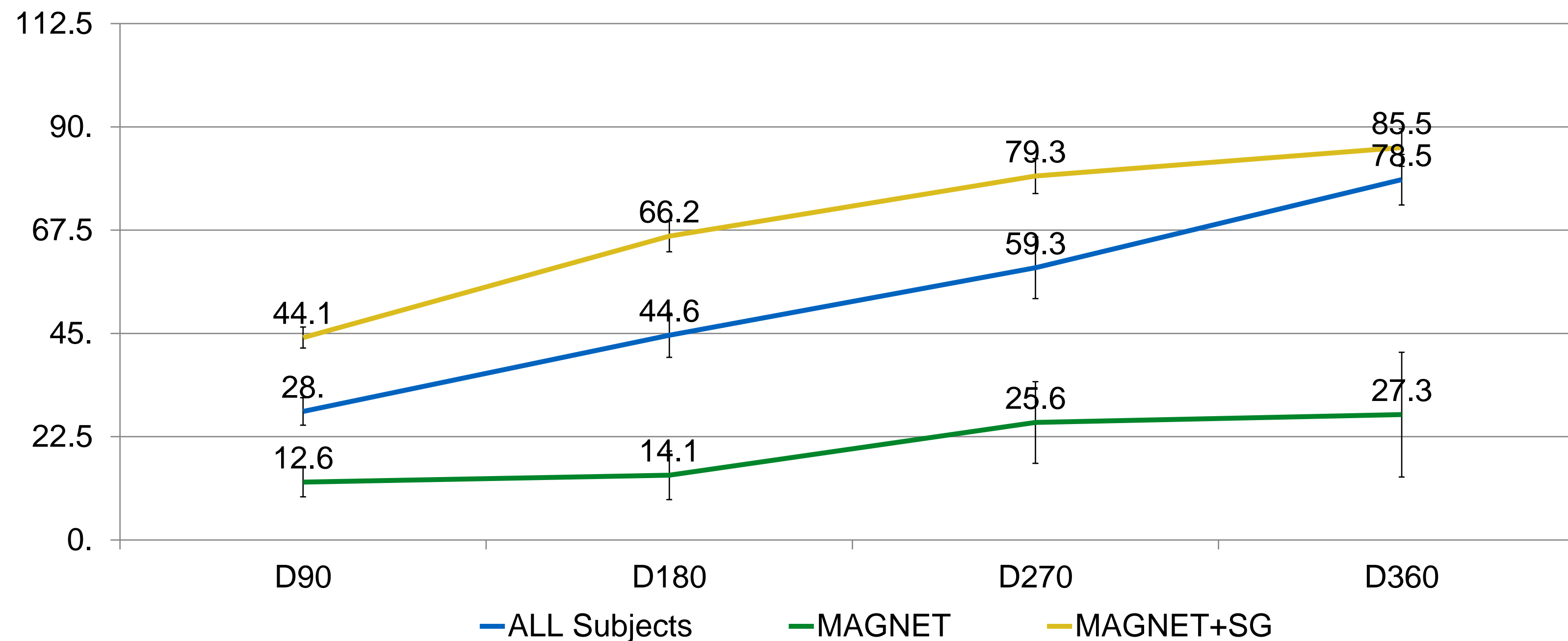
<sup>e</sup>*Department of Surgery, Inova Medical Center, Tbilisi, Republic of Georgia*

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# Percent Excess Weight Loss (%EWL) over one year

Mean (SEM) %EWL





## Spanish Experience with Latero-Lateral Duodeno-Ileostomy + Sleeve Gastrectomy with Magnet Anastomosis System

Jana Dziakova<sup>1,2,3</sup>  · Antonio Torres<sup>1,2,3</sup> · Maja Odovic<sup>1</sup> · José Miguel Esteban<sup>4</sup> · Manuel Vázquez-Romero<sup>4</sup> · Andrea Castillo<sup>1</sup> · Andrés Sánchez-Pernaute<sup>1,2,3</sup> · Michel Gagner<sup>5,6</sup>

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### Abstract

**Background** The partial diversion of intestinal contents facilitates achieving and maintaining weight loss and improving glycemic control in patients with obesity and with or without T2DM. The purpose of this study is to report our experience and 1-year follow-up with novel modification of SADI-S.



Contents lists available at [ScienceDirect](#)

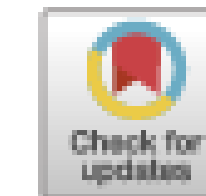
## Journal of Gastrointestinal Surgery

journal homepage: [www.jogs.org](http://www.jogs.org)



### Original Article

## Sleeve gastrectomy with duodenoileal bipartition using linear magnets: feasibility and safety at 1-year follow-up



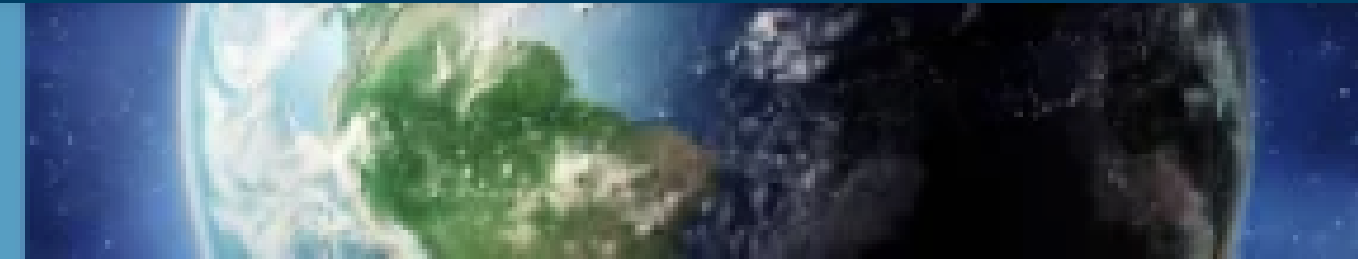
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ORIGINAL SCIENTIFIC REPORT

## **Magnetic single-anastomosis side-to-side duodeno-ileostomy for revision of sleeve gastrectomy in adults with severe obesity: 1-year outcomes**

Michel Gagner , Lamees Almutlaq, Gismonde Gnanhoue, J. N. Buchwald

First published: 01 August 2024

<https://doi.org/10.1002/wjs.12304>

The study was presented in part at the American College of Surgeons Annual Clinical Congress in the Scientific Forum, October 2023.



Original article

# Magnetic compression anastomosis gastrojejunostomy: feasibility and efficacy of a novel device in a swine model

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Received 24 January 2024; accepted 26 April 2024

## GT Metabolic Wins De Novo Nod for Magnet Compression Anastomosis Tech

The company's first-generation MagDI system is used for side-to-side duodeno-ileal anastomosis.



 GT Metabolic™

Michel Gagner, MD, pioneer in magnetic compression anastomosis surgery. Photo: GT Metabolic Solutions.

Decision date: July 2nd, 2024



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### Device Classification Under Section 513(f)(2)(De Novo)



[510\(k\)](#)<sup>7</sup> | [DeNovo](#)<sup>8</sup> | [Registration & Listing](#)<sup>9</sup> | [Adverse Events](#)<sup>10</sup> | [Recalls](#)<sup>11</sup> | [PMA](#)<sup>12</sup> | [HDE](#)<sup>13</sup> | [Classification](#)<sup>14</sup> | [Standards](#)<sup>15</sup> | [CFR Title 21](#)<sup>16</sup> | [Radiation-Emitting Products](#)<sup>17</sup> | [X-Ray Assembler](#)<sup>18</sup> | [Medsun Reports](#)<sup>19</sup> | [CLIA](#)<sup>20</sup> | [TPLC](#)<sup>21</sup>

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<b>Device Classification Name</b>	<a href="#">Magnetic Compression Anastomosis System</a> <sup>22</sup>
<b>De Novo Number</b>	DEN240013
<b>Device Name</b>	MagDI System
<b>Requester</b>	Gt Metabolic Solutions, Inc. 3050 Three Springs Court San Jose, CA 95140
<b>Contact</b>	Lisa Griffin Vincent
<b>Regulation Number</b>	<a href="#">878.4816</a> <sup>23</sup>
<b>Classification Product Code</b>	<a href="#">SAH</a> <sup>24</sup>
<b>Date Received</b>	03/26/2024
<b>Decision Date</b>	07/02/2024
<b>Decision</b>	Granted (DENG)
<b>Classification Advisory Committee Review Advisory Committee</b>	General & Plastic Surgery
<b>Reclassification Order</b>	<a href="#">Reclassification Order</a> <sup>25</sup>
<b>Type</b>	Post-NSE

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