



S.I.C.O.B.

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G I A R D I N I  
N A X O S



# Rischio di Carcinoma Esofago-Gastrico dopo OAGB

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**Head of the Department of General and Laparoscopic Surgery**

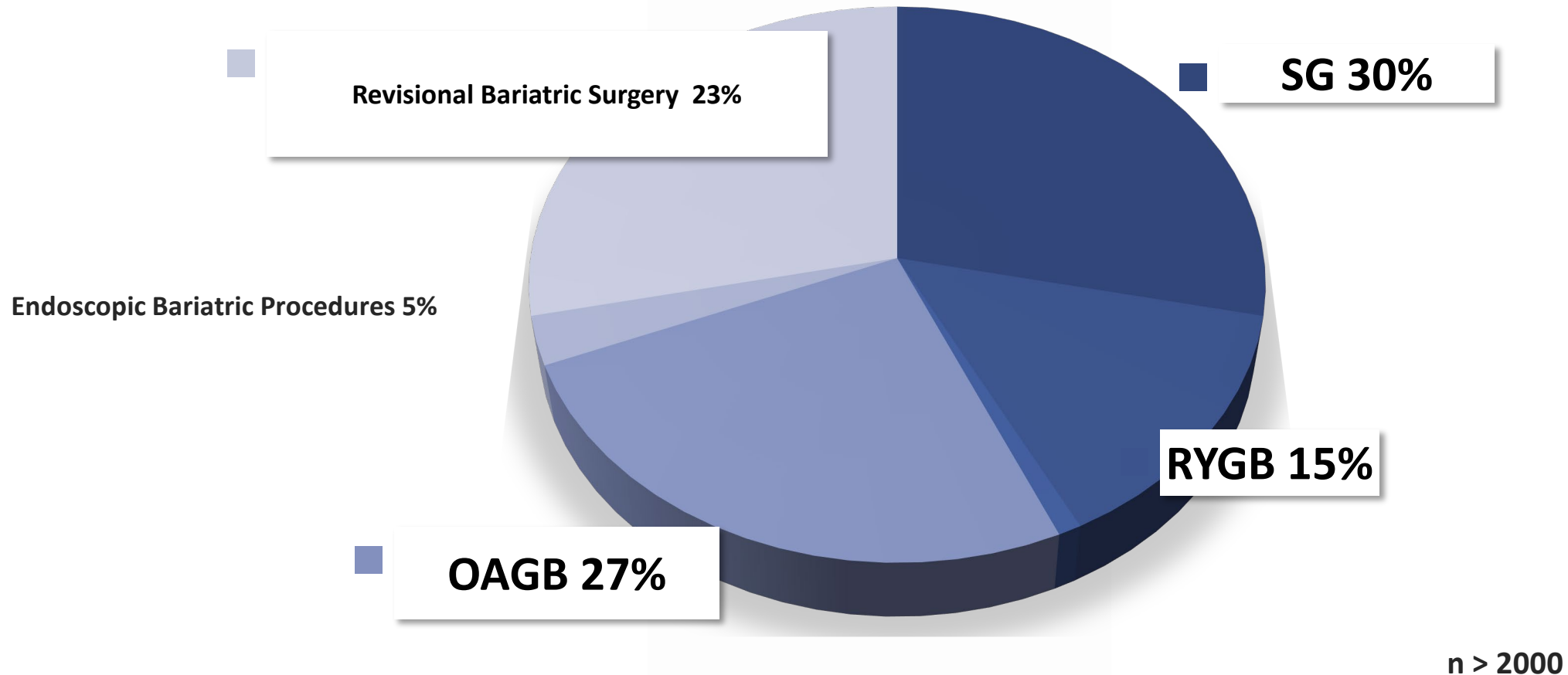
**Center of Excellence Bariatric and Metabolic Surgery**

**Ospedale Evangelico Betania, Naples, Italy**

# Conflict of interest disclosure (COI)

- I have the following potential conflict of interest to report
  - Receipt of honoraria or consultation fees:
    - Johnson & Johnson America (2021, 2024)
    - Novo Nordisc (2021)
    - Genesis Medtech (USA) (2023)

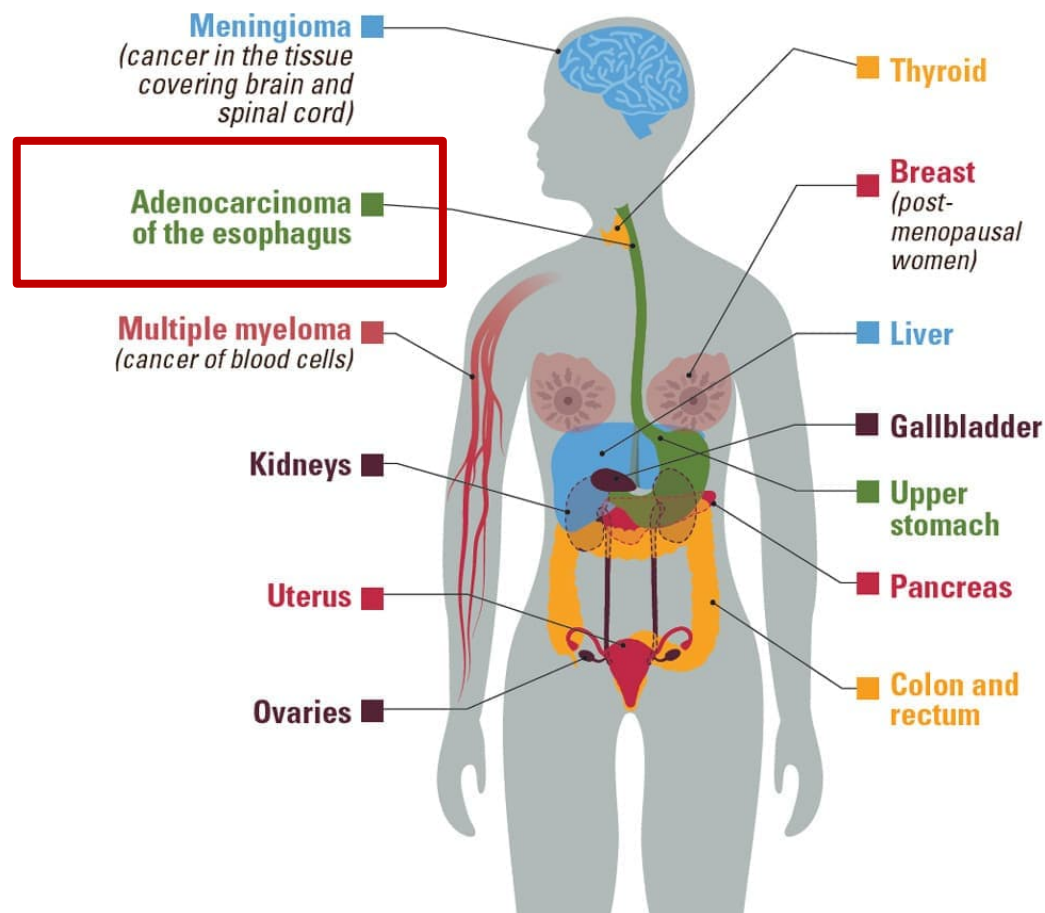
# Case mix disclosure



# Correlation between Cancer and Obesity

- Obesity is a significant risk factor for developing various types of cancer.
- According to the CDC, obesity is associated with about 40 % of cancer cases in the United States.
- Cancer incidence has increased in parallel with the obesity epidemic, with a significant increase in oesophageal and stomach cancer cases.

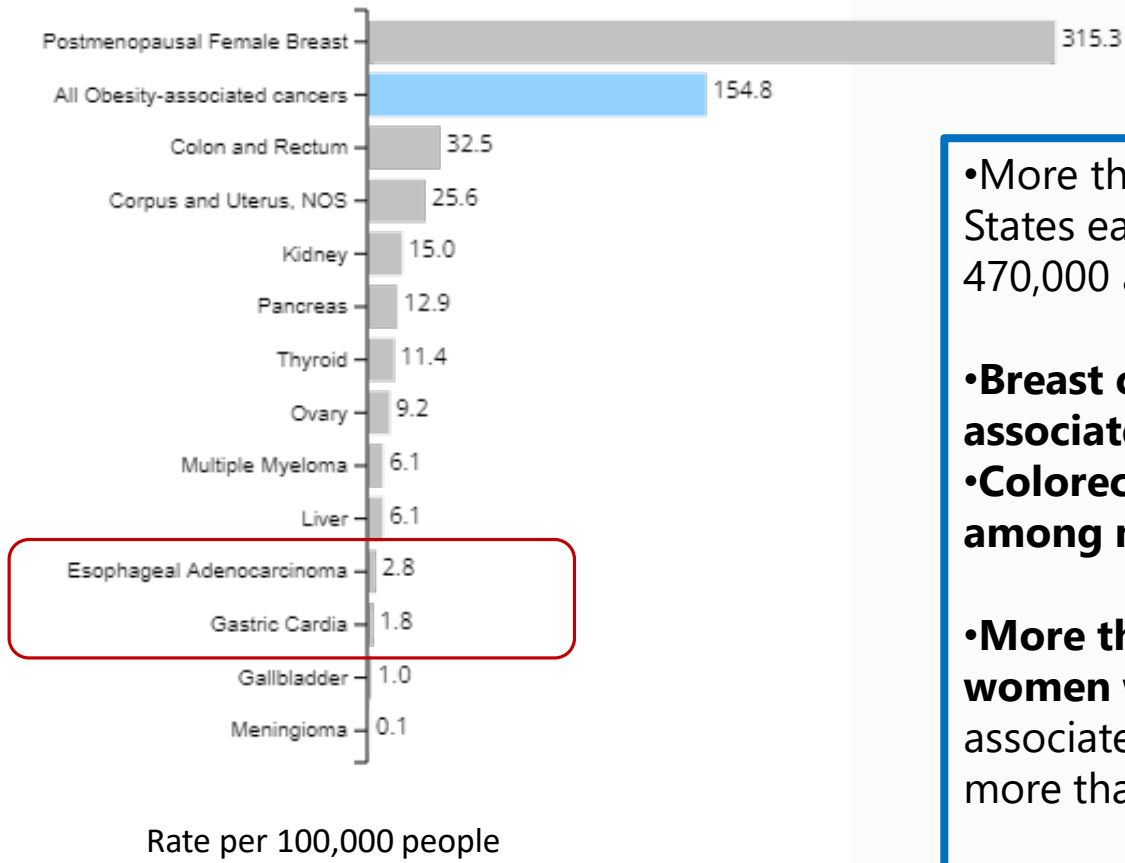
## 13 cancers are associated with overweight and obesity



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CDC 24/7: Saving Lives, Protecting People™

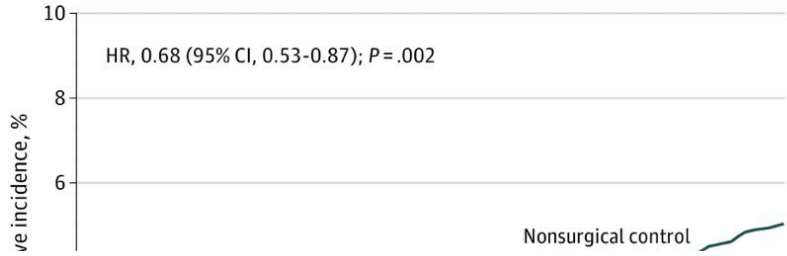
# Rate of New Obesity-associated Cancers by Cancer Type

## All Obesity-associated Cancers, Male and Female, United States, 2020



- More than 684,000 obesity-associated cancers occur in the United States each year, including more than 210,000 among men and 470,000 among women.
- **Breast cancer after menopause is the most common obesity-associated cancer among women.**
- **Colorectal cancer is the most common obesity-associated cancer among men.**
- **More than 90% of new obesity-related cancers occur in men and women who are 50 years old or older.** More than 684,000 obesity-associated cancers occur in the United States each year, including more than 210,000 among men and 470,000 among women.

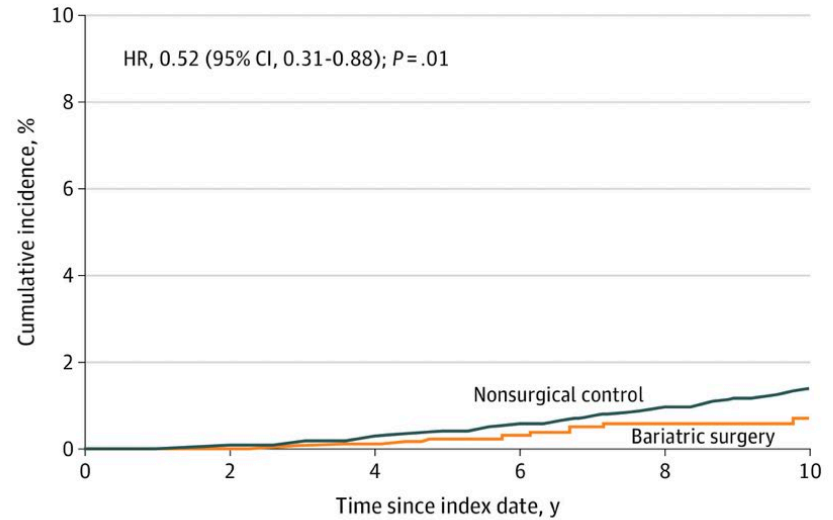
**A** Obesity-associated cancer cases



Among adults with obesity, bariatric surgery compared with no surgery was associated with a significantly lower incidence of obesity-associated cancer and cancer-related mortality.

No. at risk						
Nonsurgical control	25 265	23 796	18 588	13 055	8 334	4 571
Bariatric surgery	5 053	4 487	3 409	2 453	1 588	939

**D** Cancer-related mortality



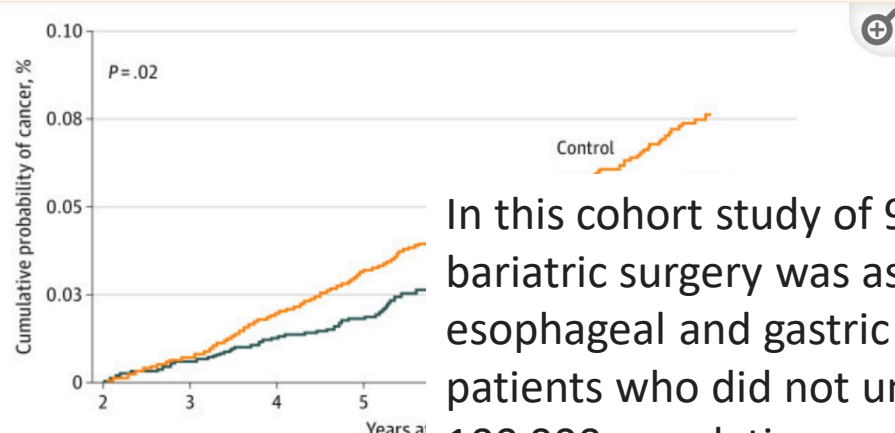
No. at risk						
Nonsurgical control	25 265	23 898	18 826	13 345	8 590	4 778
Bariatric surgery	5 053	4 508	3 440	2 497	1 622	963

Aminian A et al. Association of Bariatric Surgery With Cancer Risk and Mortality in Adults With Obesity. *JAMA*. 2022 Jun 28;327(24):2423-2433. doi: 10.1001/jama.2022.9009. PMID: 35657620; PMCID: PMC9166218.

## Association of Bariatric Surgery With Cancer Risk and Mortality in Adults With Obesity

In the SPLENDID (Surgical Procedures and Long-term Effectiveness in Neoplastic Disease Incidence and Death) matched cohort study, adult patients with a BMI of 35 or greater who underwent bariatric surgery at a US health system between 2004 and 2017 were included.

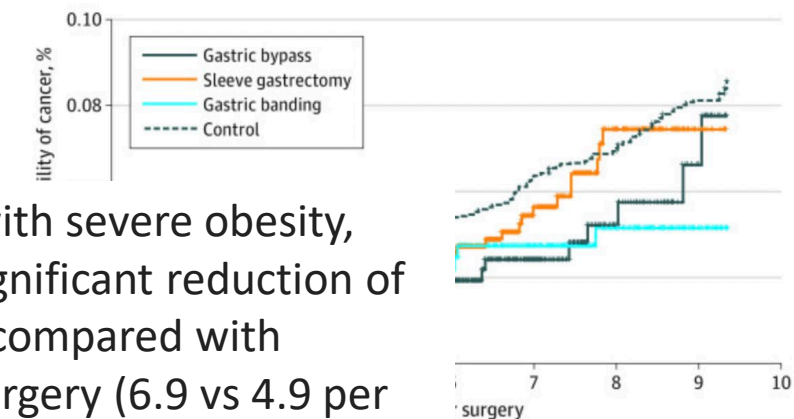
Bariatric surgery (n = 5053), including Roux-en-Y gastric bypass and sleeve gastrectomy, vs nonsurgical care (n = 25 265).



No. at risk	2	3	4	5	Years at risk
Control	605140	530527	451518	374256	200000
Bariatric surgery	303709	258599	210907	167159	124525

In this cohort study of 908 849 patients with severe obesity, bariatric surgery was associated with a significant reduction of esophageal and gastric cancer incidence compared with patients who did not undergo bariatric surgery (6.9 vs 4.9 per 100 000 population per year).

Figure 1. Cumulative Incidence of Esophagogastric Cancer by Group



Sleeve gastrectomy	178912	147022	114266	85586	59149	37017	19816	7780
Gastric bypass	84187	72720	60250	48153	36292	25042	15096	7072

Figure 2. Cumulative Incidence of Esophagogastric Cancer by Bariatric Procedure

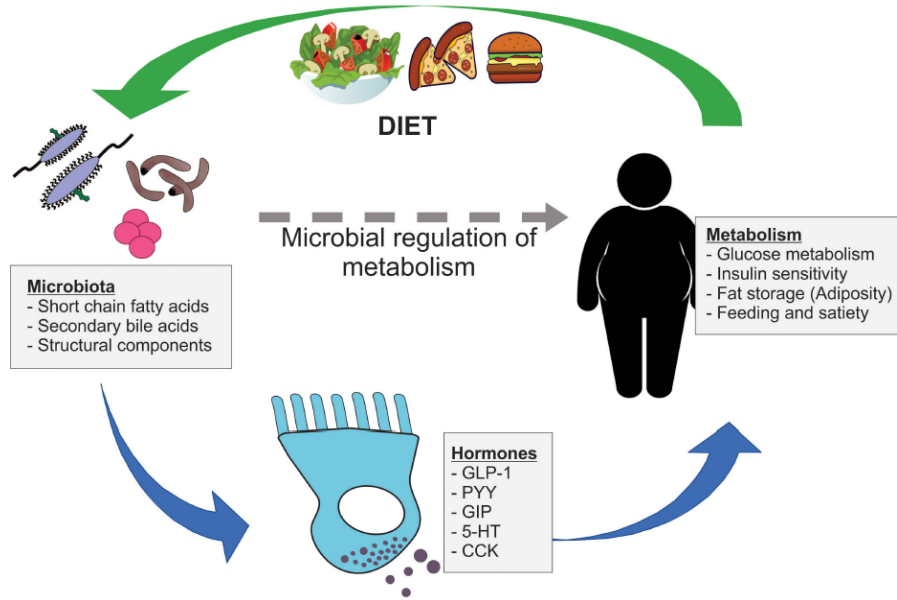
Lazzati A, Poghosyan T, Touati M, Collet D, Gronnier C. Risk of Esophageal and Gastric Cancer After Bariatric Surgery. *JAMA Surg.* 2023 Mar 1;158(3):264-271. doi: 10.1001/jamasurg.2022.6998. PMID: 36630108; PMCID: PMC9857712..

## Risk of Esophageal and Gastric Cancer After Bariatric Surgery

This cohort study obtained data from a national discharge database, including all surgical centers, in France from January 1, 2010, to December 31, 2017. Participants included adults (aged ≥18 years) with severe obesity who underwent bariatric surgery (surgical group) or who did not (control group). Baseline characteristics were balanced between groups using nearest neighbor propensity score matching with a 1:2 ratio. The study was conducted from March 1, 2020, to June 30, 2021.

# HOW?

## METABOLIC IMPROVEMENTS



## WEIGHT LOSS





# Biological Mechanisms and Cancer after OAGB

Parameters	SG			RYGB			
	N	Pooled outcome (95% CI)	I <sup>2</sup> (%)	N	Pooled outcome (95% CI)	I <sup>2</sup> (%)	
Manometry	LES resting pressure (mm Hg)	10	<b>-3.55 (-6.35 to -0.75)</b>	93	10	-0.15 (-0.86 to 0.55)	51
	LES length (cm)	5	0.14 (-0.11 to 0.39)	91	6	0.01 (-0.09 to 0.11)	68
	Esophageal body amplitude (mm Hg)	1	<b>-23.30 (-33.97 to -8.63)</b>	Inestimable	4	-0.31 (-14.36 to 13.74)	85
	Ineffective peristalsis (%) <sup>a</sup>	3	<b>2.82 (1.34 to 5.98)</b>	0	3	<b>2.41 (1.38 to 4.20)</b>	12
	Intra-gastric pressure (mm Hg)	6	0.78 (-3.87 to 5.42)	96	1	<b>-7.00 (-8.60 to -5.40)</b>	Inestimable
pH test	DeMeester score	9	5.46 (-1.26 to 12.18)	96	7	<b>-16.65 (-22.36 to -10.93)</b>	99
	AET, total (%)	10	<b>1.95 (0.23 to 3.67)</b>	96	5	<b>-3.88 (-5.47 to -2.28)</b>	97
	AET, recumbent (%)	5	<b>2.64 (0.82 to 4.45)</b>	90	1	<b>-1.64 (-2.65 to -0.64)</b>	0
	AET, upright (%)	5	1.79 (-0.68 to 4.25)	95	1	<b>-5.44 (-6.13 to -4.76)</b>	34
	Reflux episodes, total (n)	6	<b>15.98 (0.05 to 31.90)</b>	93	4	-18.06 (-52.64 to 16.52)	100
	Reflux episodes, total acid (n)	6	<b>5.07 (-2.26 to 12.41)</b>	87	2	<b>-34.79 (-69.30 to -0.28)</b>	100
	Reflux episodes, total nonacid (n)	6	<b>11.65 (5.59 to 17.71)</b>	82	2	<b>43.21 (39.33 to 47.10)</b>	94
	Reflux episodes, recumbent (n)	2	<b>5.79 (-1.22 to 12.80)</b>	52	—	—	—
	Reflux episodes, upright (n)	2	2.60 (-16.97 to 22.16)	91	—	—	—

Bold text indicates a statistically significant difference with a *P*-value less than 0.05.

AET, acid exposure time; CI, confidence interval; LES, lower esophageal sphincter; RYGB, Roux-en-Y gastric bypass; SG, sleeve gastrectomy.

<sup>a</sup>Relative risk.

- Concerns exist regarding **bile reflux (BR) gastritis** after OAGB, potentially increasing the risk of malignancy, particularly esophageal carcinoma.
- Early detection of **Barrett's esophagus or carcinoma** of the esophagus or stomach is crucial.
- **Acid, alkaline reflux and hiatal hernia** are risk factors

Jaruvongvanich, Veeravich et al. "Esophageal Pathophysiologic Changes and Adenocarcinoma After Bariatric Surgery: A Systematic Review and Meta-Analysis." *Clinical and translational gastroenterology* vol. 11,8 (2020): e00225.

Aggarwal, Sandeep et al. "Adenocarcinoma of oesophagus involving gastro-oesophageal junction following mini-gastric bypass/one anastomosis gastric bypass." *Journal of minimal access surgery* vol. 16,2 (2020): 175-178.



# Complications of Gastroesophageal Reflux Disease

*Role of the Lower Esophageal Sphincter, Esophageal Acid and Acid/Alkaline Exposure, and Duodenogastric Reflux*

Ann. Surg. • July 1992

HUBERT J. STEIN, M.D.,\* ANTONY P. BARLOW, M.D.,† TOM R. DeMEESTER, M.D.,\* and RONALD A. HINDER, M.D., Ph.D.†

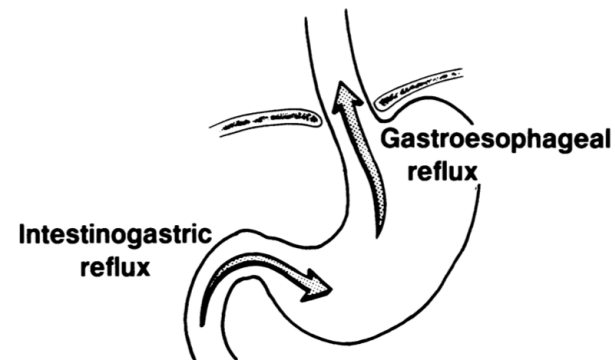


FIG. 10. Intestinogastric reflux in patients with GERD.

n = 205 with GERD, n = 50 healthy volunteers

The severity of complications progressively increased from patients with a normal lower esophageal sphincter and only acid reflux, to patients with a defective sphincter and acid/alkaline reflux (Fig. 7). Patients with a normal lower esophageal sphincter were more apt to have the complication of esophagitis ( $p < 0.01$ ), whereas those with a mechanically defective sphincter were more likely to have a stricture or Barrett's esophagus ( $p < 0.01$ ), particularly so in those with acid/alkaline reflux.

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GASTROESOPHAGEAL REFLUX DISEASE

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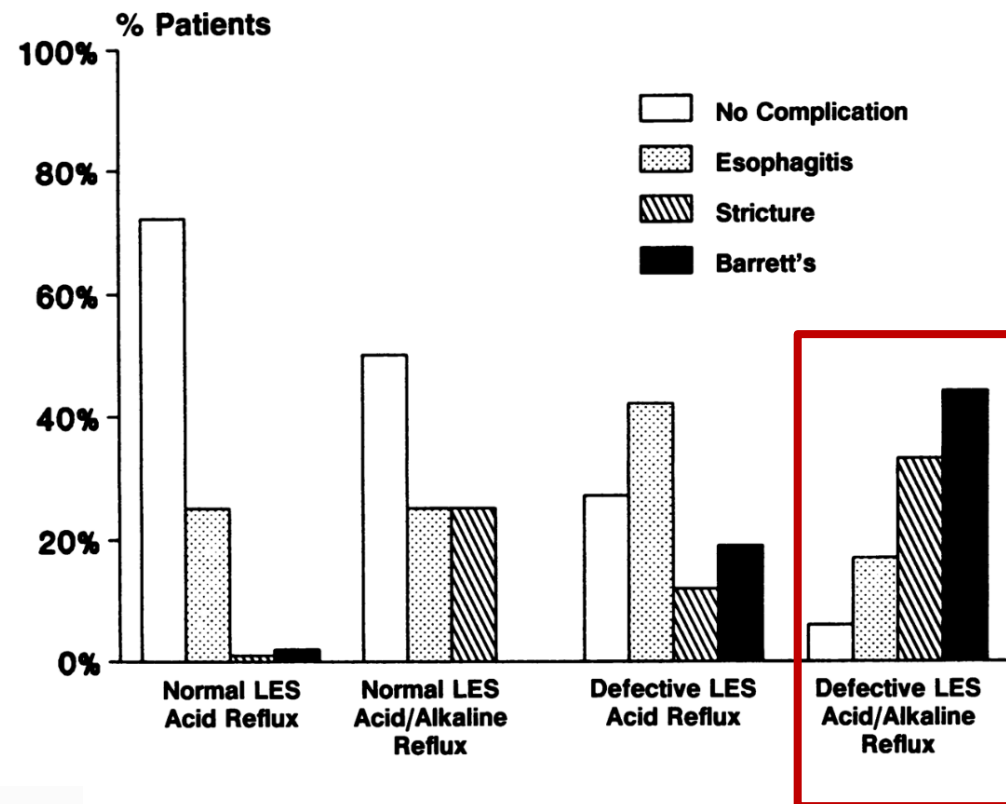


FIG. 7. The severity of complications in patients with GERD and acid reflux or acid/alkaline reflux with and without a mechanically defective LES.

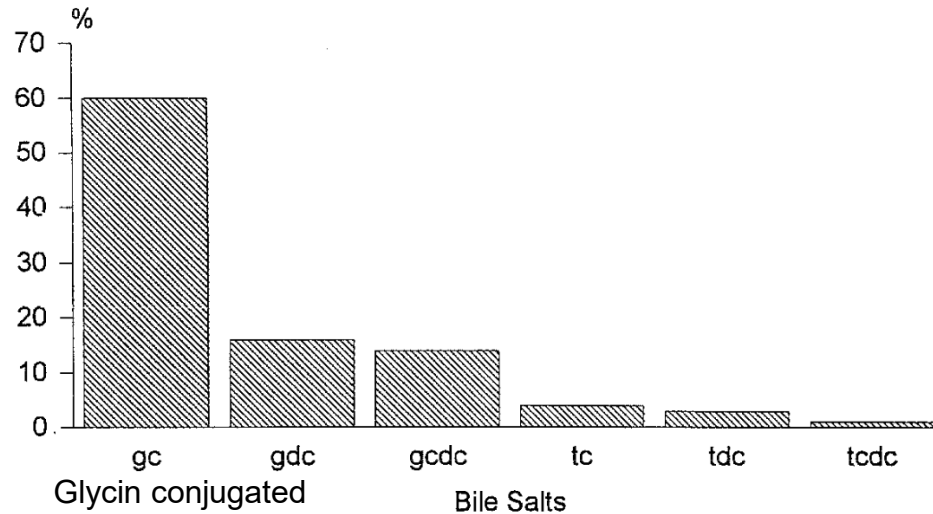


## Original communications

# Composition and concentration of bile acid reflux into the esophagus of patients with gastroesophageal reflux disease

Werner K. H. Kauer, MD, Jeffrey H. Peters, MD, Tom R. DeMeester, MD, Hubertus Feussner, MD, Adrian P. Ireland, FRCSI, Hubert J. Stein, MD, and Rüdiger J. Siewert, MD, Munich, Germany, and Los Angeles, Calif.

Bile acids could be detected in 58 % of normal subjects ( $n = 43$ ) and 86% of patients ( $n = 37$ ) ( $p < 0.003$ ).



Patients with reflux disease have an increased amount of bile in their aspirate, with the highest volume and rate of bile aspiration in the postprandial and supine periods. Bile reflux may play an important role in the development of mucosal injury in GERD.

**Fig. 5.** Prevalence of conjugated bile acids in samples with an aspirated volume greater than 3 ml ( $n = 24$ ). *gc*, Glycocholic acid; *tc*, taurocholic acid; *gdc*, glycodeoxycholic acid; *tdc*, taurodeoxycholic acid; *gcdc*, glycochenodeoxycholic acid; *tcdc*, taurochenodeoxycholic acid.



ISSN: (Print) (Online) Journal homepage: <https://www.tandfonline.com/loi/ierh20>

## A systematic review and meta-analysis on GERD after OAGB: rate, treatments, and success

Amir Hossein Davarpanah Jazi, Shahab Shahabi, Erfan Sheikhabaei, Salvatore Tolone, Mehdi El Skalli, Ali Kabir, Rohollah Valizadeh & Mohammad Kermansaravi

To cite this article: Amir Hossein Davarpanah Jazi, Shahab Shahabi, Erfan Sheikhabaei, Salvatore Tolone, Mehdi El Skalli, Ali Kabir, Rohollah Valizadeh & Mohammad Kermansaravi (26 Dec 2023): A systematic review and meta-analysis on GERD after OAGB: rate, treatments, and success, Expert Review of Gastroenterology & Hepatology, DOI: 10.1080/17474124.2023.2296992

To link to this article: <https://doi.org/10.1080/17474124.2023.2296992>

Published online: 26 Dec 2023.

### 3.2. GERD after OAGB; overall, primary, and secondary

Pooled estimation of a meta-analysis of prevalence studies reported a prevalence of 2% for GERD after OAGB (Figure 2). In the subgroup analysis, pooled estimation of a meta-analysis of prevalence studies reported that 2% and 12% experience GERD after primary and secondary OAGB, respectively. GERD following secondary OAGB as the revisional operation is six times higher than when OAGB is conducted for the first time on a patient with severe obesity (Figure 3).

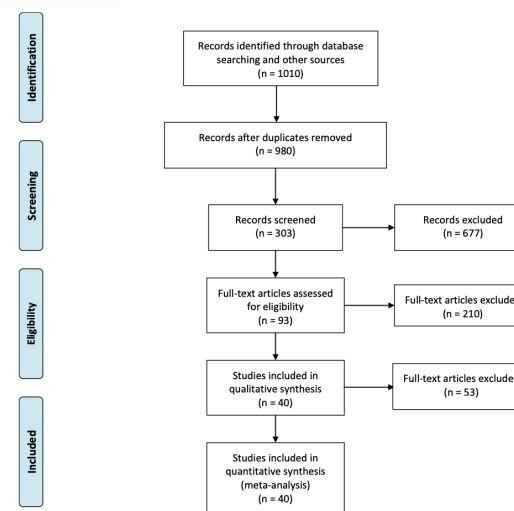


Figure 1. PRISMA flow chart indicating the number of included, excluded, and analyzed studies.

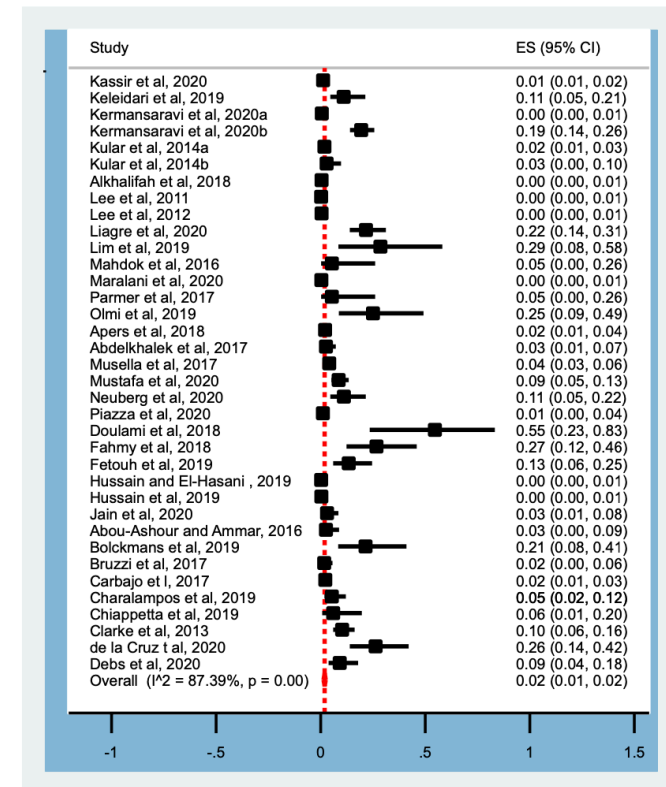


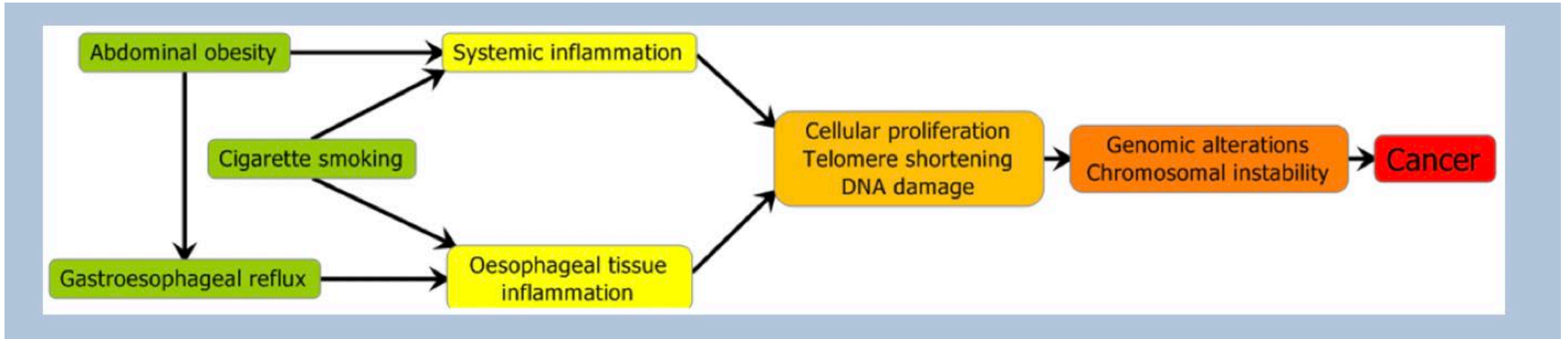
Figure 2. Prevalence of GERD following OAGB.

## Barrett's oesophagus and oesophageal adenocarcinoma: time for a new synthesis

Brian J. Reid<sup>1,2,3,4</sup>, Xiaohong Li<sup>1</sup>, Patricia C. Galipeau<sup>1,2</sup>, and Thomas Vaughan<sup>1,5</sup>

<sup>1</sup>Division of Public Health Sciences, Fred Hutchinson Cancer Research Center, University of Washington, Seattle, WA, USA

BE Paradigm: Symptomatic GERD → BE → EA → EA Mortality



E) No evidence that endoscopic investigation of GERD improves detection of BE prior to EA diagnosis<sup>30-32</sup>

F) Vast majority of persons with BE detected by endoscopy do not progress to EA; 95% die of unrelated causes<sup>17-28</sup>



Figure 2. The paradox of Barrett's oesophagus



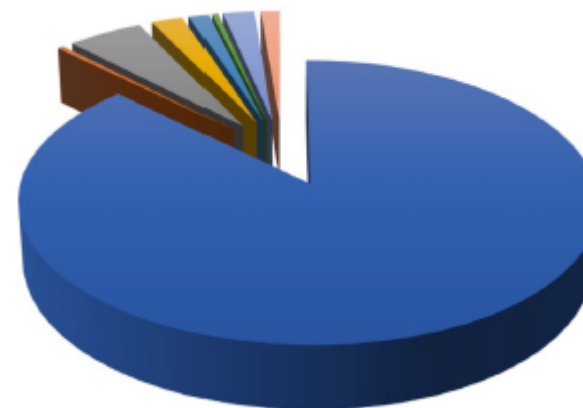
## Oesophageal and Gastric Cancer After Bariatric Surgery: an Up-to-Date Systematic Scoping Review of Literature of 324 Cases

Chetan Parmar<sup>1</sup> · Sjaak Pouwels<sup>2,3</sup>

- The study analyzed 324 cases of esophageal and stomach cancer after bariatric surgery.
- A mean time of 5.25 years between surgery and cancer diagnosis
- Only 7 cases of cancer are reported after OAGB.

**Table 2** Types of bariatric surgery and the location of cancer ( $n=323$ )

	RYGB ( $N=133$ )	SG ( $N=58$ )	GB ( $N=97$ )	VBG ( $N=14$ )	MGB/OAGB ( $N=7$ )	BPD ( $N=3$ )	Other* ( $N=15$ )
Oesophagus	37	17	46	5		1	8
Stomach	6	6	8	9		1	
Gastric pouch	30	16	7		2		2
Gastric remnant	24		3		3	1	2
GE junction	23	17	18		2		3
Excluded stomach	3						
Unknown	10	2	15				



- Adenocarcinoma ( $n=208$ , 87.4%)
- Signet cell carcinoma ( $n=1$ , 0.4%)
- Squamous cell carcinoma ( $n=12$ , 5.0%)
- Gastrointestinal Stomal Tumor (GIST) ( $n=5$ , 2.1%)
- Neuro endocrine ( $n=3$ , 1.3%)
- Small cell carcinoma ( $n=1$ , 0.4%)



LETTER TO THE EDITOR

## The First Case Report of a Carcinoma of the Gastric Cardia (AEG II) After OAGB-MGB

Mira Runkel<sup>1</sup> · Michael Pauthner<sup>1</sup> · Norbert Runkel<sup>1</sup>

Published online: 31 October 2019  
© Springer Science+Business Media, LLC, part of Springer Nature 2019

The scientific dispute over OAGB-MGB is gaining momentum as supporters fiercely advocate its simplicity, safety, and success and opponents obstinately recall the potential risk of the Billroth II reconstruction for chronic biliary reflux and gastroesophageal cancer. Rutledge himself has performed several thousands of these procedures since 1997 and has never observed such a malignancy [1] nor has gastric cardia or pouch cancer been published by anyone else [2]. We herein describe a case of true junctional cancer occurring 2 years after construction of an OAGB-MGB.

the left gastric artery and the remnant stomach served as the gastric conduit. The postoperative course was uneventful. Histology revealed a 2.5-cm fibrotic area with central ulceration and unspecific inflammation at the junction free of cancer (complete response) of reflux esophagitis. The gastric mucosa was free of Helicobacter pylori. No metastases were found and 13 mediastinal lymph nodes.

> J Minim Access Surg. 2020 Apr-Jun;16(2):175–178. doi: 10.4103/jmas.JMAS\_320\_18.

## Adenocarcinoma of oesophagus involving gastro-oesophageal junction following mini-gastric bypass/one anastomosis gastric bypass

Sandeep Aggarwal<sup>1</sup>, Amit Bhambri<sup>1</sup>, Vitish Singla<sup>1</sup>, Nihar Ranjan Dash<sup>2</sup>, Atul Sharma<sup>3</sup>

Affiliations + expand  
PMID: 30777997 PMID: PMC7176000 DOI: 10.4103/jmas.JMAS\_320\_18

### Abstract

Mini-gastric bypass/one anastomosis gastric bypass (MGB/OAGB) is an emerging weight loss surgical procedure. There are serious concerns not only regarding the symptomatic biliary reflux into the stomach and the oesophagus but also the increased risk of malignancy after MGB/OAGB. A 54-year-old male, with a body mass index (BMI) of 46.1 kg/m<sup>2</sup>, underwent Robotic MGB at another centre on 22<sup>nd</sup> June 2016. His pre-operative upper gastrointestinal endoscopy was not done. He lost 58 kg within 18 months after the surgery and attained a BMI of 25.1 kg/m<sup>2</sup>. However, 2-year post-MGB, the patient had rapid weight loss of 19 kg with a decrease in BMI to 18.3 kg/m<sup>2</sup> within a span of 2 months. He also developed progressive dysphagia and had recurrent episodes of non-bilious vomiting. His endoscopy showed eccentric ulcerated growth in lower oesophagus extending up to the gastro-oesophageal junction and biopsy reported adenocarcinoma of oesophagus. MGB/OAGB has a potential for bile reflux with increased chances of malignancy. Surveillance by endoscopy at regular intervals for all patients who have undergone MGB/OAGB might help in early detection of Barrett's oesophagus or carcinoma of oesophagus or stomach.

Case Reports > J Gastrointest Cancer. 2024 Mar;55(1):190–192.

doi: 10.1007/s12029-023-00968-7. Epub 2023 Sep 10.

## Adenocarcinoma of the Gastro-jejunal Anastomosis After One Anastomosis Gastric Bypass

Christian Mouawad<sup>1</sup>, Houssam Dahboul<sup>2</sup>, Daniel Kazan<sup>2</sup>, Bilal Chamaa<sup>2</sup>, Michael Osseis<sup>2</sup>, Roger Noun<sup>2</sup>, Ghassan Chakhtoura<sup>2</sup>

Affiliations + expand  
PMID: 37690067 DOI: 10.1007/s12029-023-00968-7

### Abstract

**Introduction:** One anastomosis gastric bypass (OAGB) is mainly criticized for the supposed carcinogenic effect of bile reflux on the gastric pouch mucosa.

**Case presentation:** A 56-year-old male patient presented 12 years after OAGB with a 10-month history of gradual dysphagia and vomiting. He was diagnosed with a tumor of the gastro-jejunal anastomosis. The patient underwent a subtotal gastrectomy with D2 lymphadenectomy. Specimen examination revealed a cell-type adenocarcinoma. To our knowledge, we report the first case in the literature of the gastro-jejunal anastomosis post-OAGB, and the second case of adenocarcinoma of the gastro-jejunal anastomosis after the Mason loop gastric bypass, which was the earlier version of OAGB. We discuss the histological and physiological aspect.

The carcinogenic effect of bile reflux in OAGB will remain hypothetical until a detailed study clarifies the causality between bile reflux and gastric pouch malignancies in OAGB.



## Patient Selection in One Anastomosis/Mini Gastric Bypass—an Expert Modified Delphi Consensus

Mohammad Kermansaravi<sup>1</sup> · Chetan Parmar<sup>2</sup> · Sonja Chiappetta<sup>3</sup> · Shahab Shahabi<sup>1</sup> · Alaa Abbass<sup>4</sup> · Syed Imran Abbas<sup>5</sup> · Mohamed Abouzeid<sup>4</sup> · Luciano Antozzi<sup>6</sup> · Syed Taseer Asghar<sup>7</sup> · Ahmad Bashir<sup>8</sup> · Mohit Bhandari<sup>9</sup> · Helmuth Billy<sup>10</sup> · Daniel Caina<sup>11</sup> · Francisco J. Campos<sup>12</sup> · Miguel-A. Carbajo<sup>13</sup> · Jean Marc Chevallier<sup>14</sup> · Amir Hossein Davarpanah Jazi<sup>1</sup> · Amador Garcia Ruiz de Gordejuela<sup>15</sup> · Ashraf Haddad<sup>8</sup> · Mohamad Hayssam ElFawal<sup>16</sup> · Jacques Himpens<sup>17</sup> · Aatif Inam<sup>18</sup> · Radwan Kassir<sup>19</sup> · Kazunori Kasama<sup>20</sup> · Amir Khan<sup>21</sup> · Lilian Kow<sup>22</sup> · Kuldeepak Singh Kular<sup>23</sup> · Muffazal Lakdawala<sup>24</sup> · Laurent abram Layani<sup>25</sup> · Wei-Jei Lee<sup>26</sup> · Enrique Luque-de-León<sup>27</sup> · Ken Loi<sup>28</sup> · Kamal Mahawar<sup>29</sup> · Tarek Mahdy<sup>30</sup> · Mario Musella<sup>31</sup> · Abdelrahman Nimeri<sup>32</sup> · Juan Carlos Olivares González<sup>33</sup> · Abdolreza Pazouki<sup>1</sup> · Tigran Poghosyan<sup>34</sup> · Gerhard Prager<sup>35</sup> · Arun Prasad<sup>36</sup> · Almino C. Ramos<sup>37</sup> · Karl Rheinwald<sup>38</sup> · Rui Ribeiro<sup>39</sup> · Elena Ruiz-Úcar<sup>40</sup> · Robert Rutledge<sup>41</sup> · Asim Shabbir<sup>42</sup> · Scott Shikora<sup>43</sup> · Rishi Singhal<sup>44</sup> · Osama Taha<sup>45</sup> · Mohammad Talebpour<sup>46</sup> · Jose Sergio Verboonen<sup>47</sup> · Cunchuan Wang<sup>48</sup> · Rudolf Weiner<sup>49</sup> · Wah Yang<sup>48</sup> · Ramon Vilallonga<sup>50</sup> · Maurizio De Luca<sup>51</sup>



12	OAGB/MGB is not a suitable option in Smokers	80.70%(n=46)Agree	NA	<i>Consensus agreement</i>
13	OAGB/MGB is not a suitable option in chronic alcoholics	80.70%(n=46)Agree	NA	<i>Consensus agreement</i>
18	OAGB/MGB is a suitable option in case of intestinal metaplasia of stomach corpus	74.55%(n=41) Disagree	NA	<i>Consensus disagreement</i>
20	OAGB/MGB is a suitable option in patients with severe GERD (C,D)	75.44%(n=43) Disagree	NA	<i>Consensus disagreement</i>





## IFSO Update Position Statement on One Anastomosis Gastric Bypass (OAGB)

Maurizio De Luca<sup>1</sup> · Giacomo Piatto<sup>2</sup> · Giovanni Merola<sup>3</sup> · Jacques Himpens<sup>4</sup> · Jean-Marc Chevallier<sup>5</sup> · Miguel-A Carbajo<sup>6</sup> · Kamal Mahawar<sup>7,8</sup> · Alberto Sartori<sup>2</sup> · Nicola Clemente<sup>2</sup> · Miguel Herrera<sup>9</sup> · Kelvin Higa<sup>10,11</sup> · Wendy A. Brown<sup>12</sup> · Scott Shikora<sup>13,14</sup>

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4. At this stage, bile reflux does not seem to be a major issue for patients who have undergone OAGB and there have not been increased reports of esophageal or gastric cancer. Due to the risk of under reporting and the time lag for carcinogenesis following OAGB, we recommend that patients should remain under the care of their multidisciplinary bariatric team and have regular endoscopic examinations as per the IFSO position statement on endoscopy [119].



## IFSO Position Statement on the Role of Esophago-Gastro-Duodenal Endoscopy Prior to and after Bariatric and Metabolic Surgery Procedures

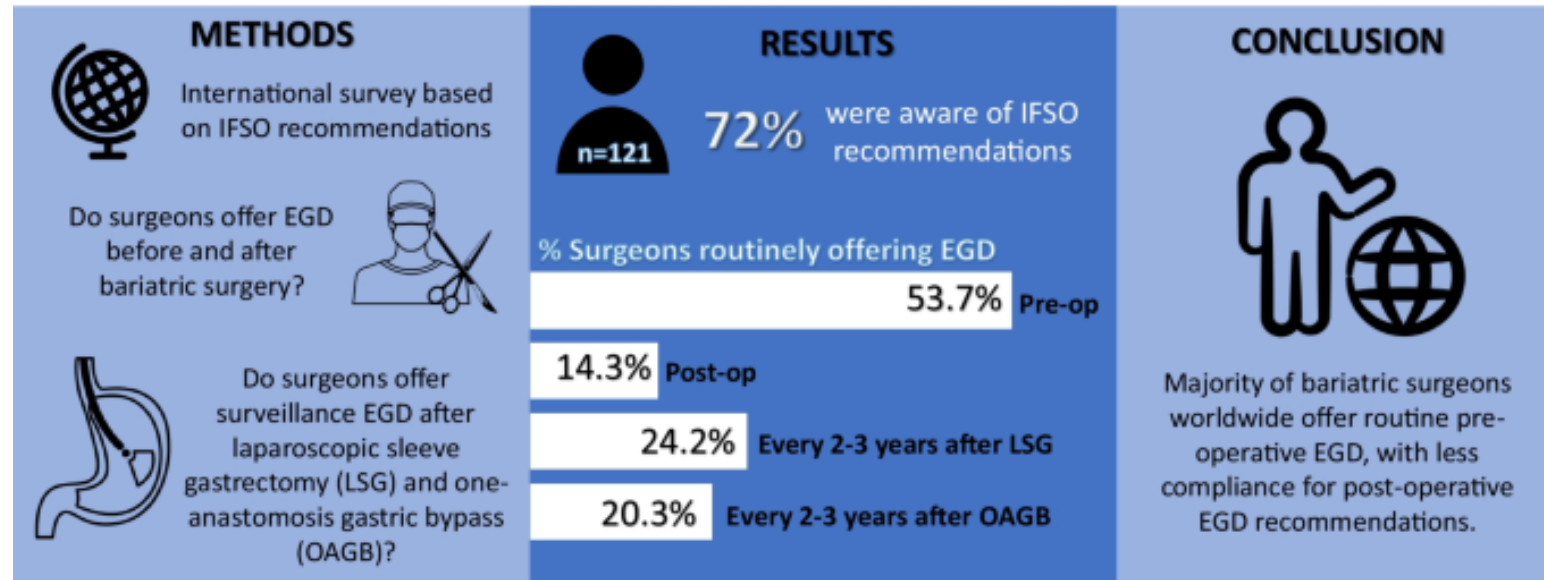
Wendy A. Brown<sup>1</sup> · Yazmin Johari Halim Shah<sup>1</sup> · George Balalis<sup>1</sup> · Ahmad Bashir<sup>1</sup> · Almimo Ramos<sup>1</sup> · Lilian Kow<sup>1</sup> · Miguel Herrera<sup>1</sup> · Scott Shikora<sup>1</sup> · Guilherme M. Campos<sup>1</sup> · Jacques Himpens<sup>1</sup> · Kelvin Higa<sup>1</sup>

4. EGD should be undertaken routinely for all patients after bariatric surgery at 1 year and then every 2–3 years for patients who have undergone LSG or OAGB to enable early detection of Barrett’s esophagus or upper GI malignancy until more data is available to confirm the incidence of these cancers in practice.

# IFSO Risk Management and Prevention

- frequent upper gastrointestinal endoscopies post-bariatric surgery, starting after 1 year.
- followed by subsequent ones every 2–3 years
- Regular monitoring and early treatment of alarming symptoms are crucial.

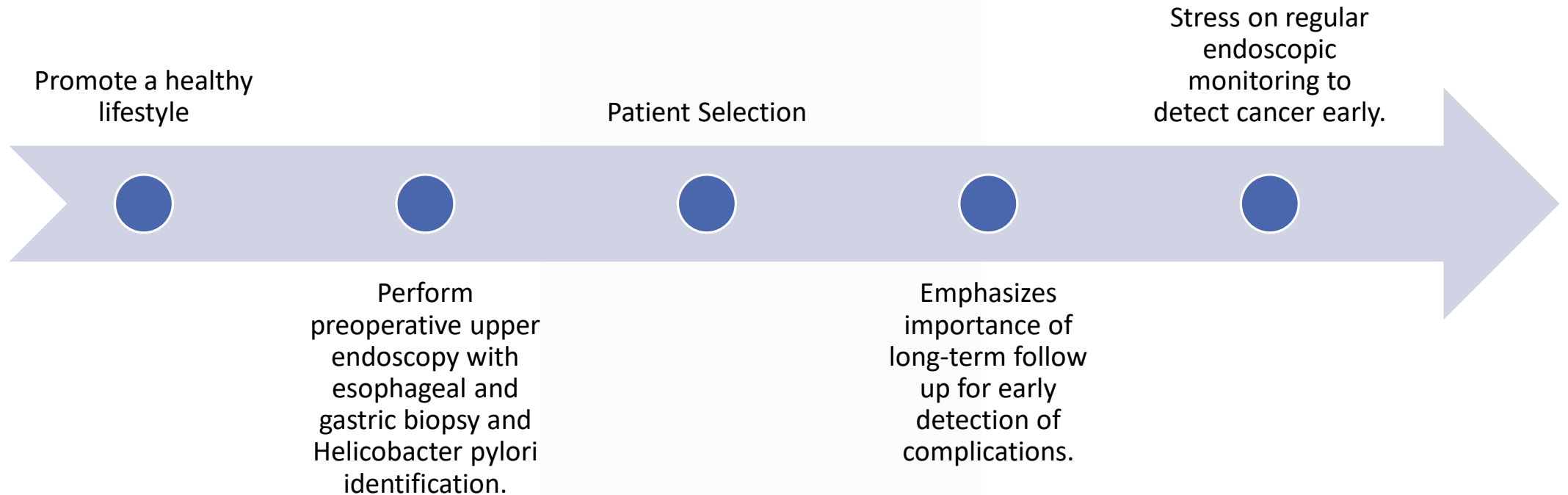
## Routine Use of Esophago-gastro-duodenoscopy (EGD) in Bariatric Surgery – An International Survey of Our Current Practice



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# Recommendations:



# Conclusions

- Metabolic and Bariatric Surgery offers significant benefits beyond weight loss, including a reduction in obesity-associated cancer risk and cancer-mortality.
- Metabolic and Bariatric Surgery (GB, RYGB, SG) offers significant reduction of esophageal and gastric cancer incidence compared with patients who did not undergo bariatric surgery.
- Up to date only 7 cases of cancer after OAGB a reported in the literature (Gastric pouch 2, Gastric remnant 3, GE junction 2).
- **Preoperative endoscopy + esophageal and gastric biopsy**
- **Patient selection and**
- **Postoperative endoscopic surveillance** are necessary to reduce the risk of gastroesophageal cancer.



S.I.C.O.B.

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# Grazie



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Interdisciplinary Long-Term  
Treatment of Bariatric and  
Metabolic Surgery Patients

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