

Reflujo post Bypass Gástrico

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VIII CONGRESO CHILENO DE
**CIRUGÍA BARIÁTRICA
Y METABÓLICA**



22-24
ABRIL 2026

CENTRO DE
CONVENCIONES
SurActivo
Concepción, Chile

NO CONFLICTO DE INTERES

Reflujo post Bypass Gástrico

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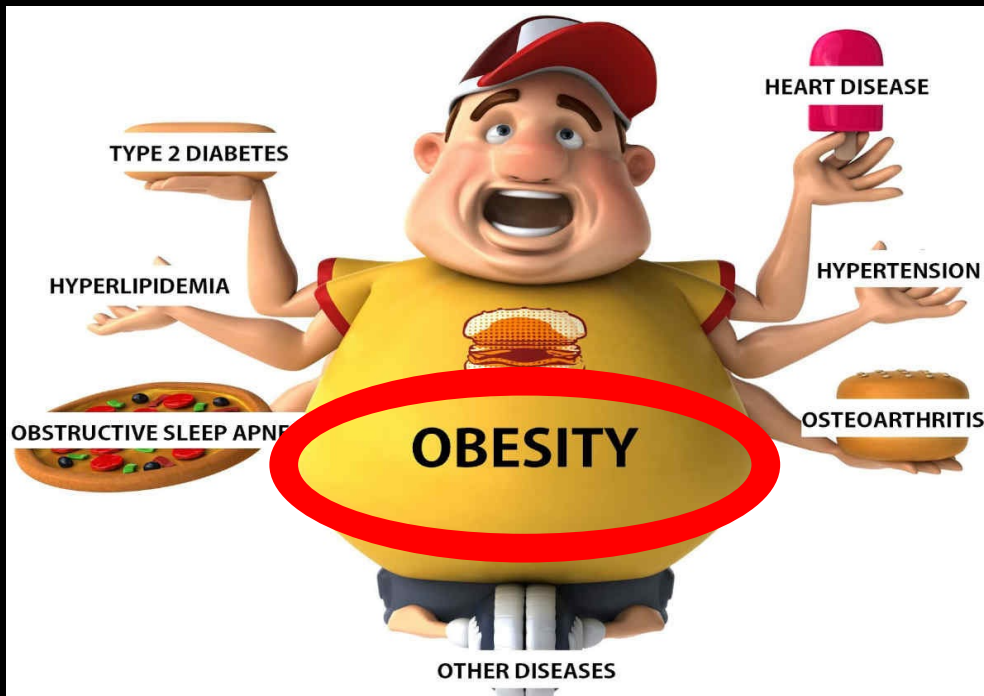
jphmagem@ yahoo.fr

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Reflujo

**Circunferencia
abdominal**

> 60%

Gastroesophageal Reflux Disease, Obesity, and Roux-en-Y Gastric Bypass: Complex Relationship —a Narrative Review

Michel Suter

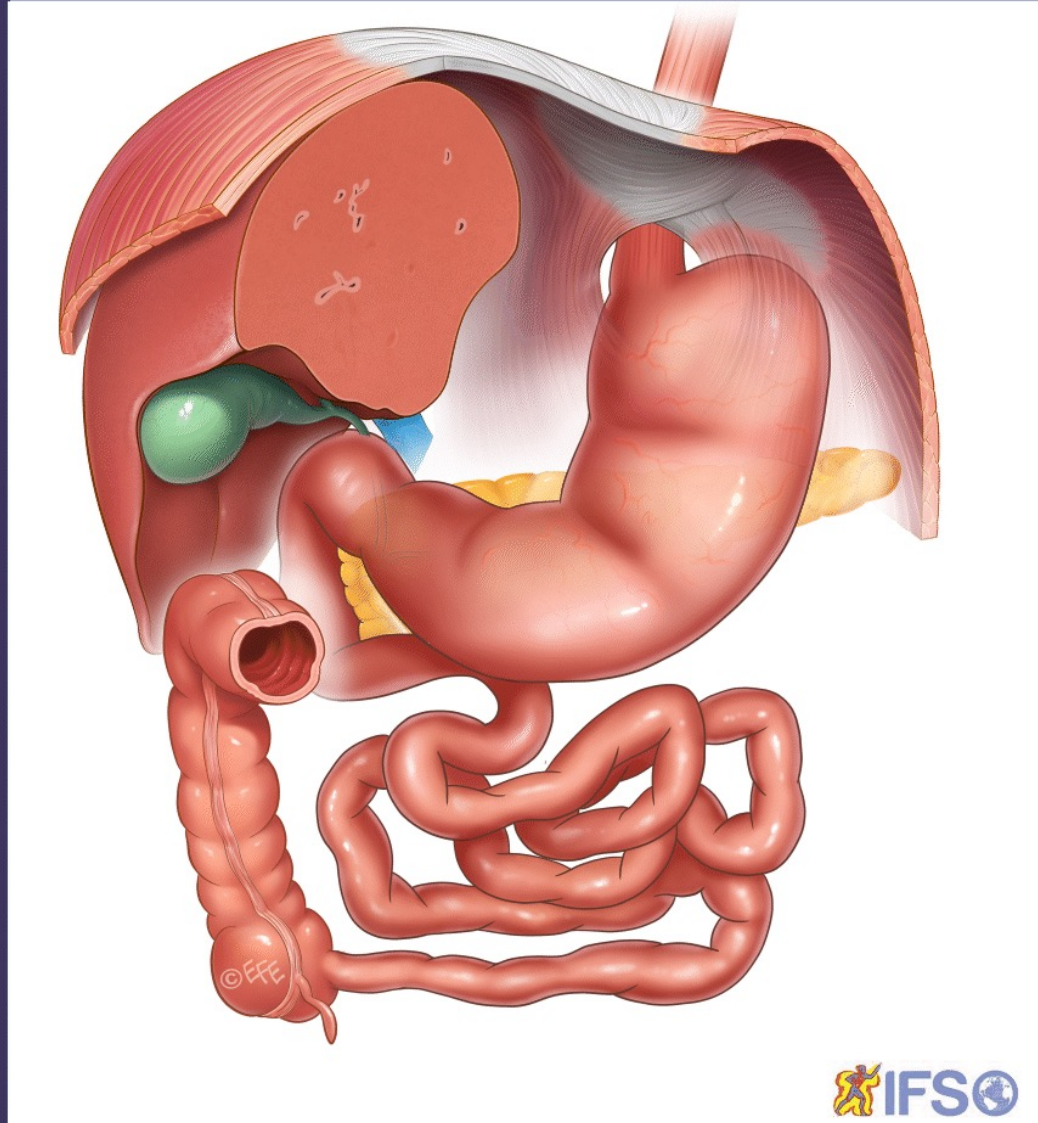
Obesity Surgery May 2020

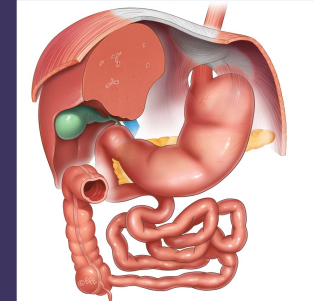
<https://doi.org/10.1007/s11695-020-04690-2>

REFLUJO GE y OBESIDAD

- ↑ Presión Intraabdominal => ↑ Gradiente Abdomino-Torácica
- PH metría de 24 hs anormal en el PRE: entre **54.5% y 73.3%** de los pacientes
- Endoscopia: Hernia hiatal 52.6%
Esofagitis erosiva 31.5%
- Motilidad ineficaz: 25.6% a 33.3%
- LES Incomptetente 17.7%

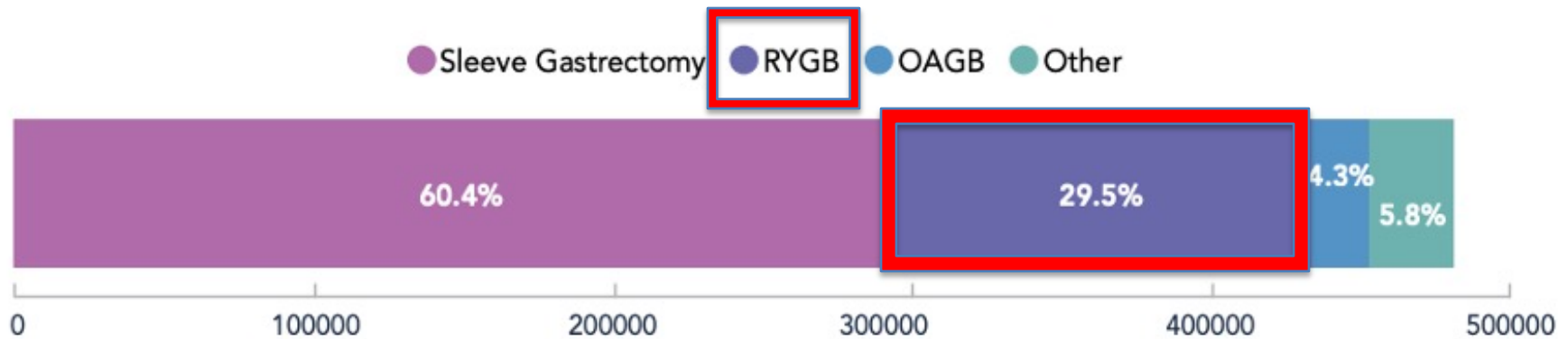
RYGB - Gastric bypass





Procedures & Operative approach

> 150 K/a

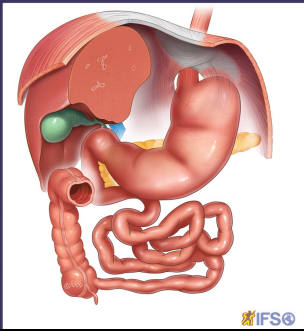


All procedure types (n=480,970).

*potential for 10,437 procedures to be represented twice due to possible overlaps with the datasets of USA and Michigan.

All procedure types (n=480,970).

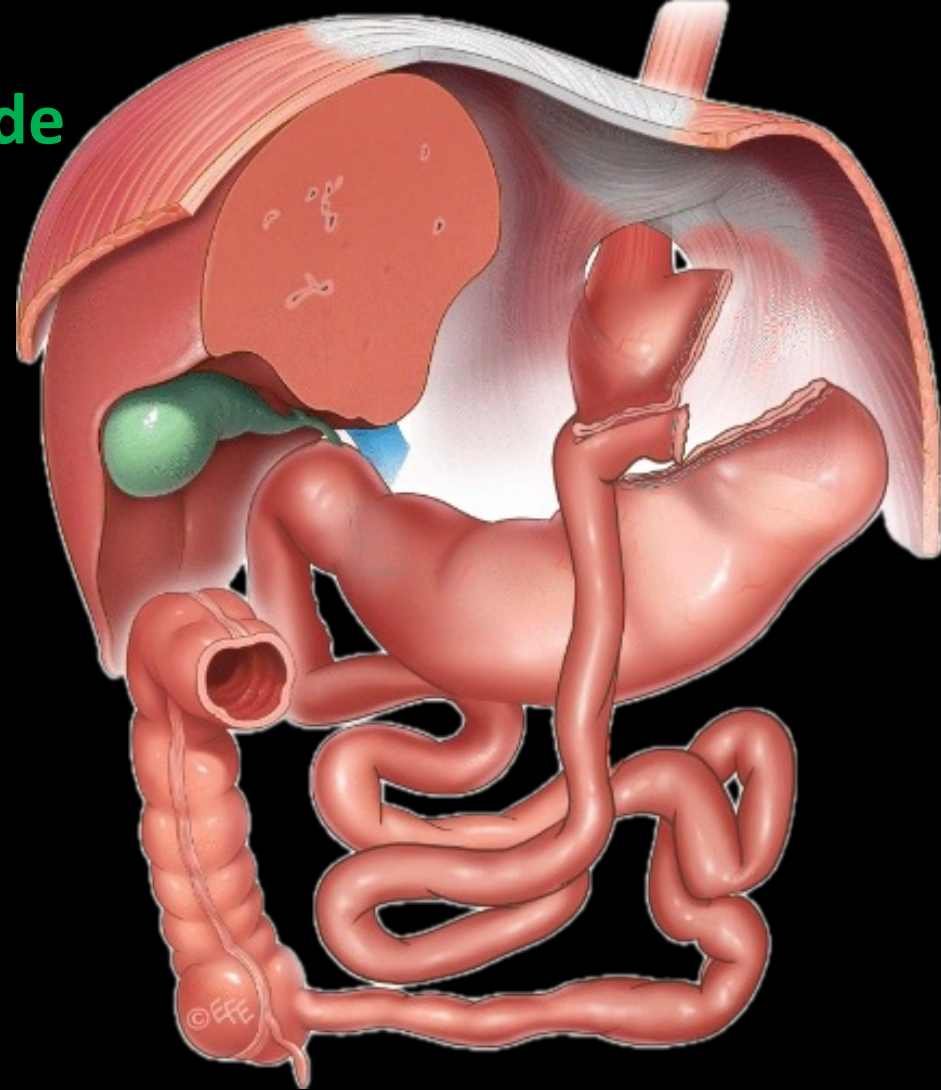
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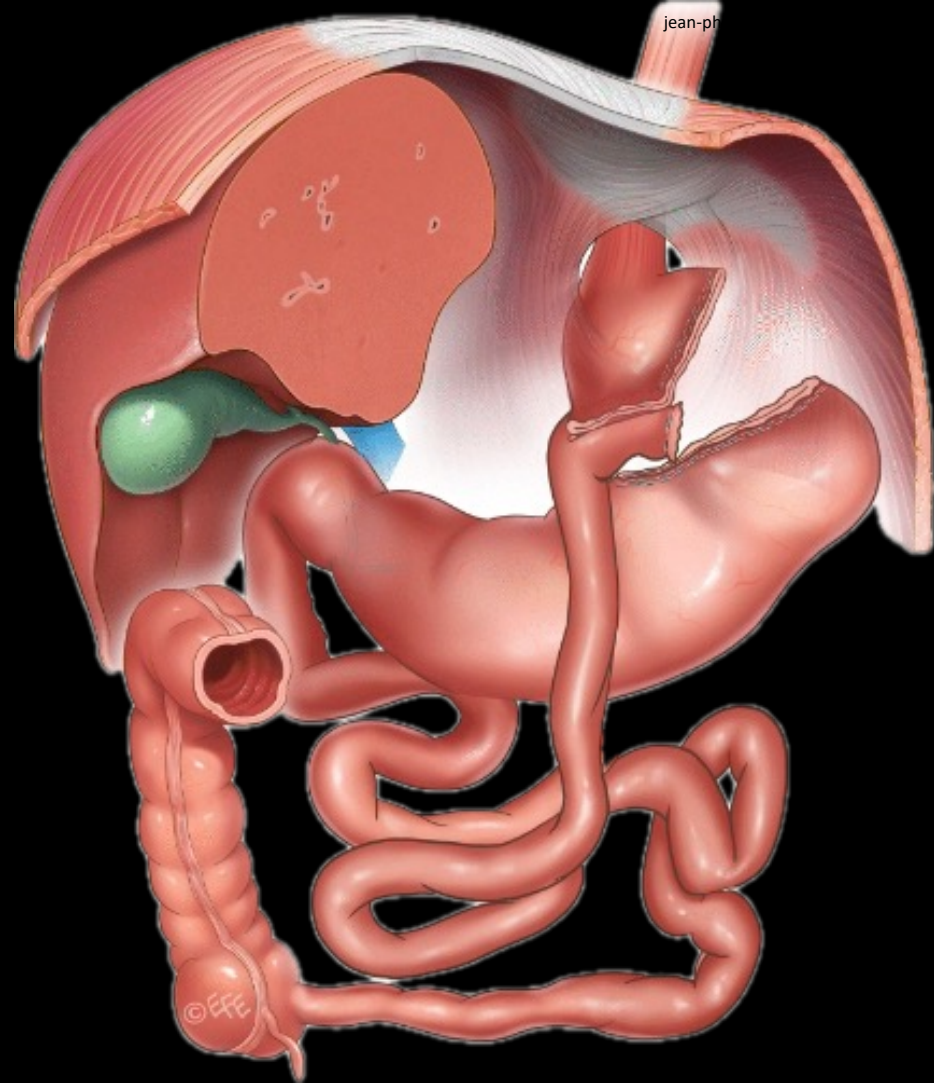
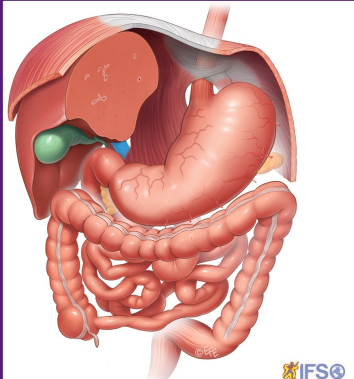
Tasa aceptable de complicaciones

Ampliamente utilizado y EFICAZ

- ✓ Manejo de la obesidad
- ✓ Manejo de las comorbilidades relacionadas con la obesidad
- Reflujo ácido y biliar



Sleeve gastrectomy



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Indications and Long-Term Outcomes of Conversion of Sleeve Gastrectomy to Roux-en-Y Gastric Bypass

Original Contributions | Published: 01 May 2021

Volume 31, pages 3410–3418, (2021) [Cite this article](#)

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Outcome of Sleeve Gastrectomy Converted to Roux-en-Y Gastric Bypass and One-Anastomosis Gastric Bypass

Original Contributions | [Open access](#) | Published: 14 January 2022

Volume 32, pages 643–651, (2022) [Cite this article](#)

Surgical Endoscopy (2023) 37:5374–5379
<https://doi.org/10.1007/s00464-023-10024-x>

Conversion to Roux-En-Y Gastric Bypass: a successful means of mitigating reflux after laparoscopic sleeve gastrectomy

Alexandra L. Strauss¹ · Joseph R. Triggs² · Colleen M. Tewksbury³ · Ian Soriano⁴ · David S. Wernsing⁵ · Kristoffel R. Dumon⁵ · Noel N. Williams⁵ · Jenny M. Shao⁵

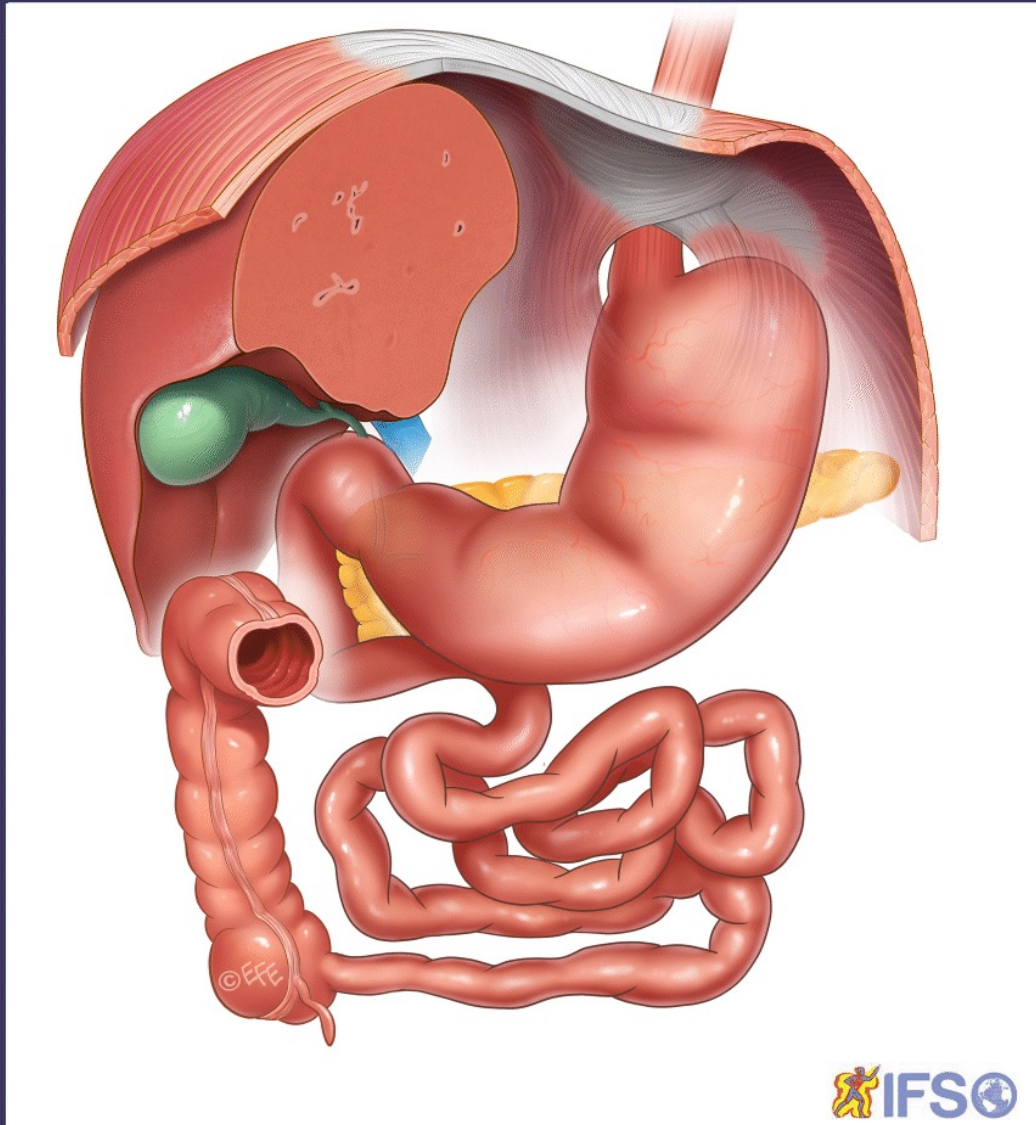
Obesity Surgery (2021) 31:3410–3418
<https://doi.org/10.1007/s11695-021-05444-4>

ORIGINAL CONTRIBUTIONS

Indications and Long-Term Outcomes of Conversion of Sleeve Gastrectomy to Roux-en-Y Gastric Bypass

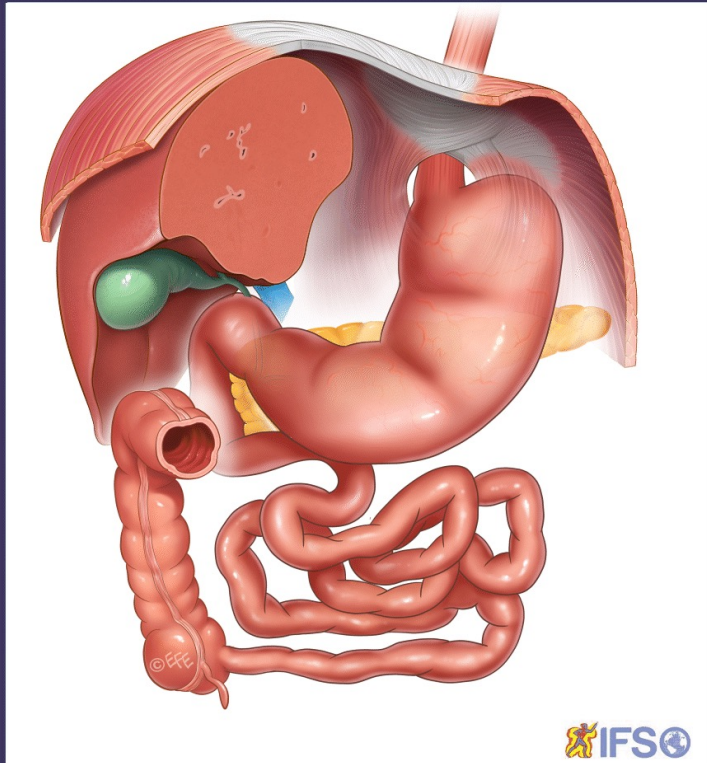
Antonio D'Urso¹ · Michel Vix¹ · Silvana Perretta¹ · Mihaela Ignat¹ · Louise Scheer¹ · Didier Mutter¹

RYGB - Gastric bypass



Porque el BPG mejora el Reflujo **Ácido** y **Biliar**?

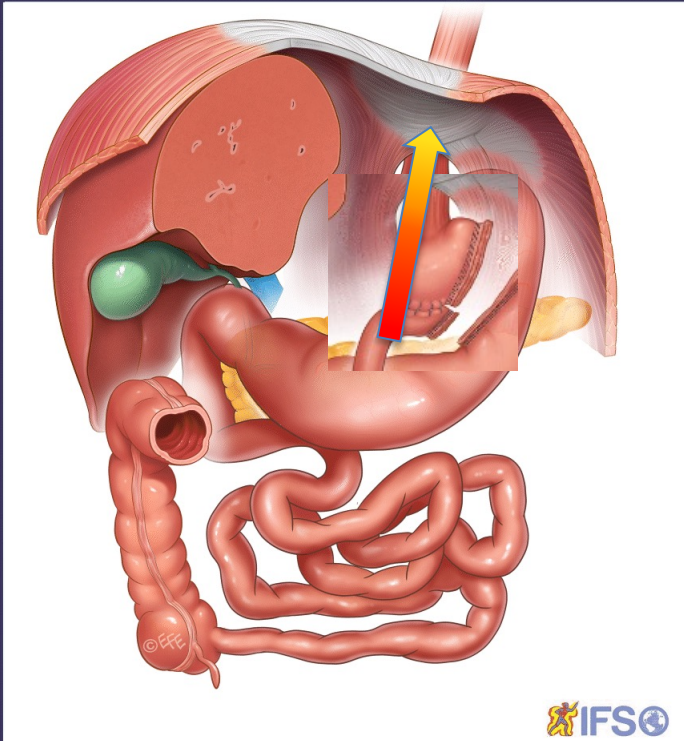
RYGB - Gastric bypass



- Producción de ácido en el pouch
- Vaciado rápido del pouch
- La derivación de la bilis
- Pérdida de peso : ↓ P / EEI

Sin embargo...

RYGB - Gastric bypass



**Hasta 22%:
con reflujo
ácido**



Predictive Factors of Gastroesophageal Reflux Disease in Bariatric Surgery: a Controlled Trial Comparing Sleeve Gastrectomy with Gastric Bypass

Daniel Navarini, Carlos Augusto Madalosso, Alexandre P. Tognon, Fernando Fornari, Fábio R. Barão, Richard R. Gurski

Springer Science+Business Media, LLC, part of Springer Nature **2020**

35 casos de Sleeve

40 casos de By Pass Gástrico

Control **PRE** operatorio y **1 año** Post Operatorio con :

Síntomas, Endoscopia,
Trago de Bario,
Manometría Esofágica
pH metría de 24hs

De NOVO ERGE Post RYGBP : 17%

De NOVO ERGE Post Manga : 68%



GERD after Roux-en-Y Gastric Bypass: Prevalence and Risk Factors Analysis

Matas Pažusis, Gabriel' e Gerasimovi, Ruta Petereit, Rita Gudaityte, and Almantas Maleckas

Medicina **2024**, 60, 1221.

126 Pac post RYGB

ERGE Post Op RYGB **12 años**

De NOVO ERGE Post RYGBP : 13,98%

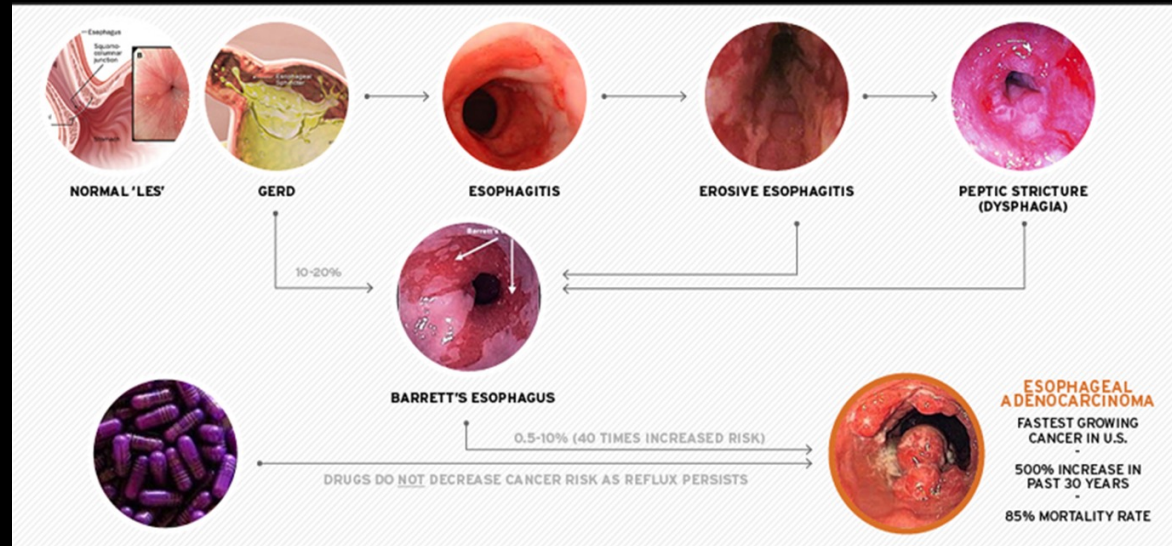
Continuo ERGE Post RYGBP : 9,52%



Factores de riesgo de reflujo post BPG

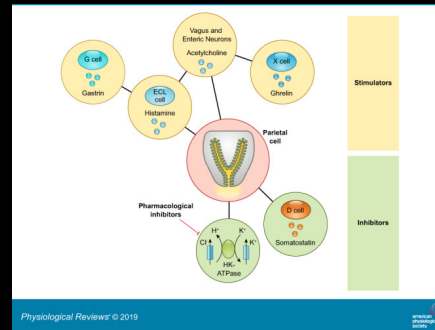


- Reganancia de peso
- GERD Pre-op
- Helicobacter Pylori
- Diabetes (Ratio 5,6)
- AINES (Ratio 11,5)
- Tábaco (Ratio 30,6)
- Alcohol

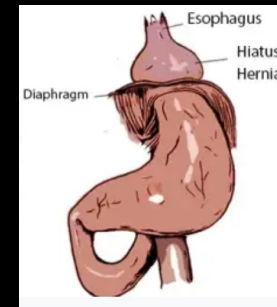


Causas del reflujo post BPG

■ Fisiología



■ Anatomía pre GBP : hernia hiatal



■ Cirugía

Factores técnicos

- Hernia hiatal
- Pouch: grande, horizontal
- Anastomosis estrecha
- Candy Cane proximal

Complicaciones

- Estenosis GJ
- Fístula Gastro-Gástrica
- Oclusión intermitente

RYGB - Gastric bypass

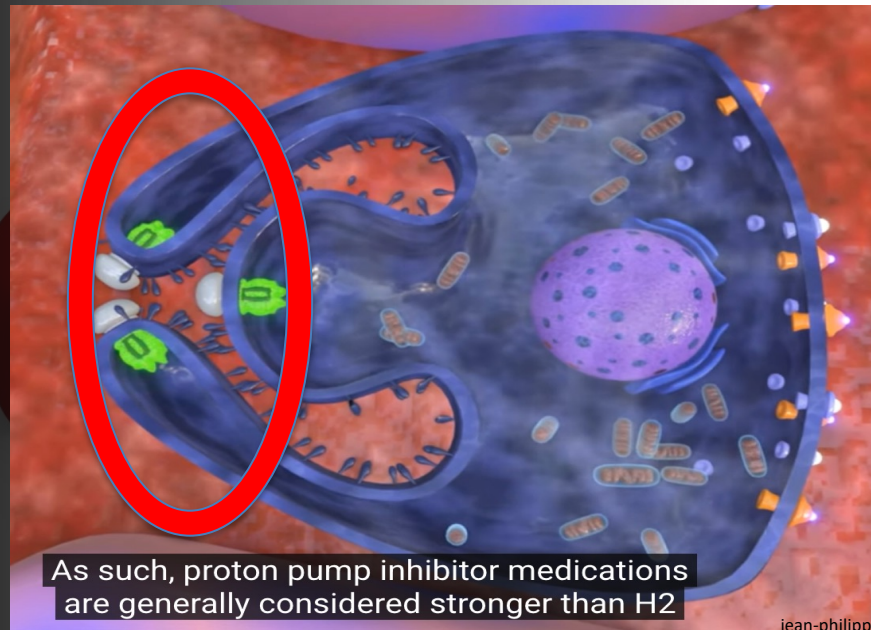


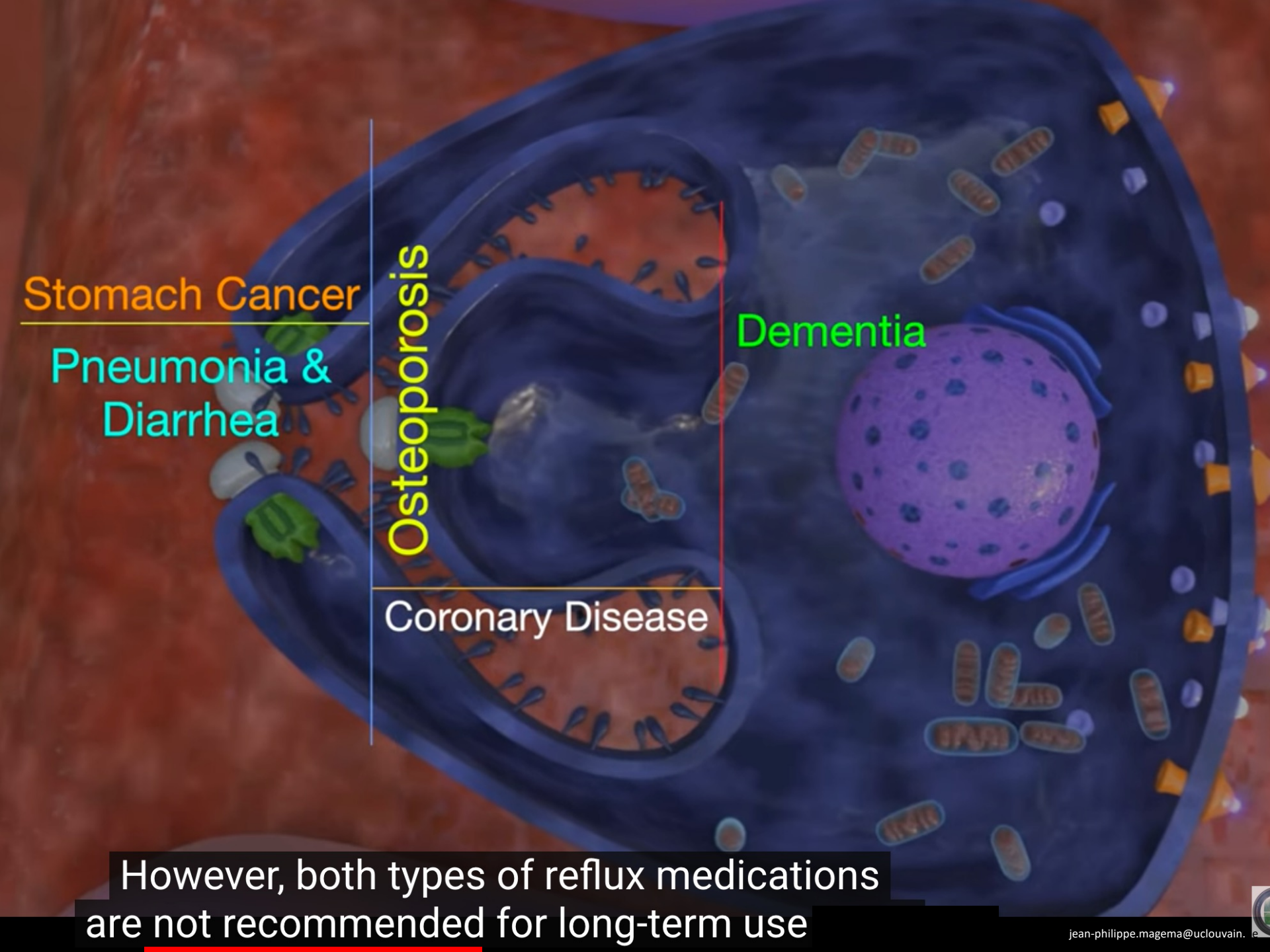
Physiological Reviews® © 2019

Manejo del Reflujo Post GBP

Sintomático:

- Dieta, higiene de vida
- Medicaciones:
 - Anti-H2
 - IBP





Stomach Cancer

Pneumonia &
Diarrhea

Osteoporosis

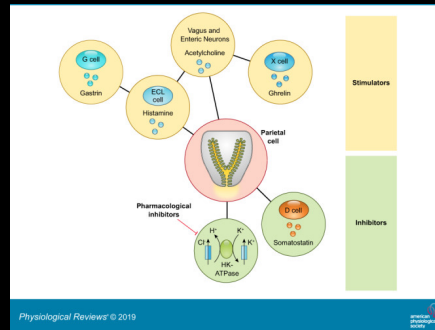
Dementia

Coronary Disease

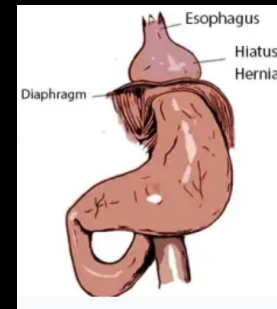
However, both types of reflux medications
are not recommended for long-term use

Causas del reflujo post BPG

■ Fisiología



■ Anatomía pre GBP : hernia hiatal



■ Cirugía

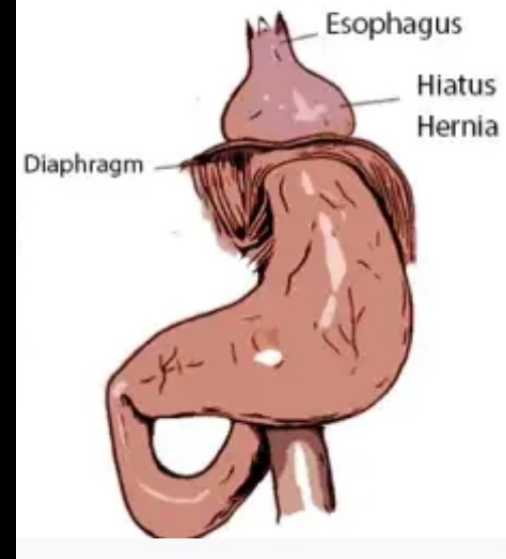
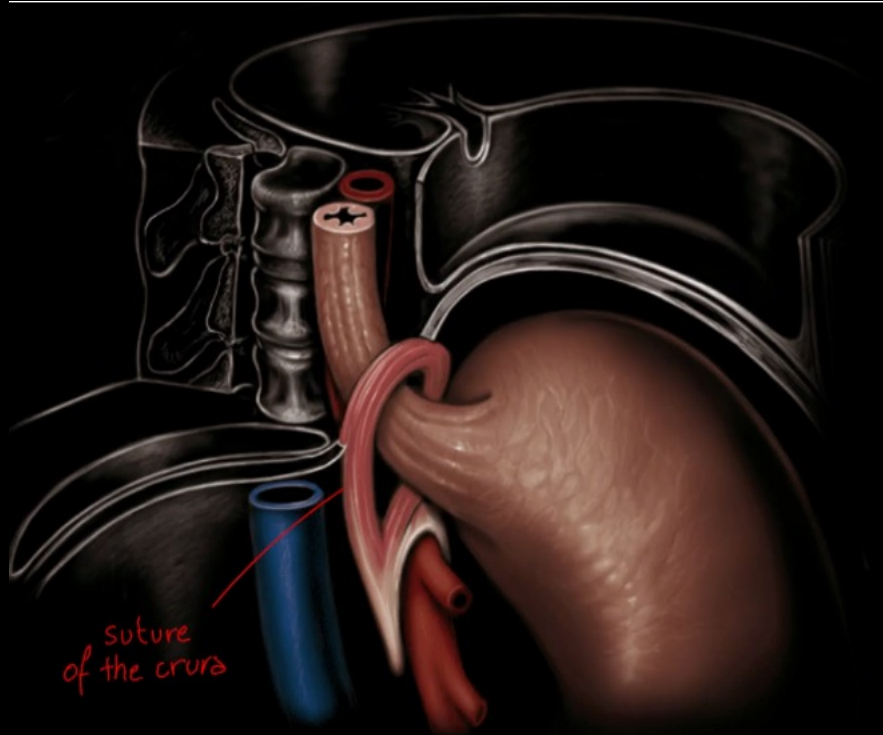
Factores técnicos

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- Pouch: grande, horizontal
- Anastomosis estrecha
- Candy Cane proximal
- Asa alimentaria corta (ref. biliar)

Complicaciones

- Estenosis GJ
- Fístula Gastro-Gástrica
- Oclusión intermitente

Anatomia pre GBP: hernia hiatal



Hernia hiatal : 39,5%

Reflujo debido al espacio
que se agrande con la
pérdida de peso

SURGERY FOR OBESITY
AND RELATED DISEASES



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ORIGINAL ARTICLE: SURGERY • Volume 16, Issue 4, P471-475, April 2020

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Late-term hiatal hernia after gastric bypass: an emerging problem

[Benjamin Clapp, M.D., F.A.S.M.B.S.](#) [Loc-Uyen Vo, M.P.H.](#) [Carlos Lodeiro](#) • ... [Simon Montelongo, D.O.](#) [Isaac Lee, M.D.](#) [Alan Tyroch, M.D.](#) ... [Show more](#)

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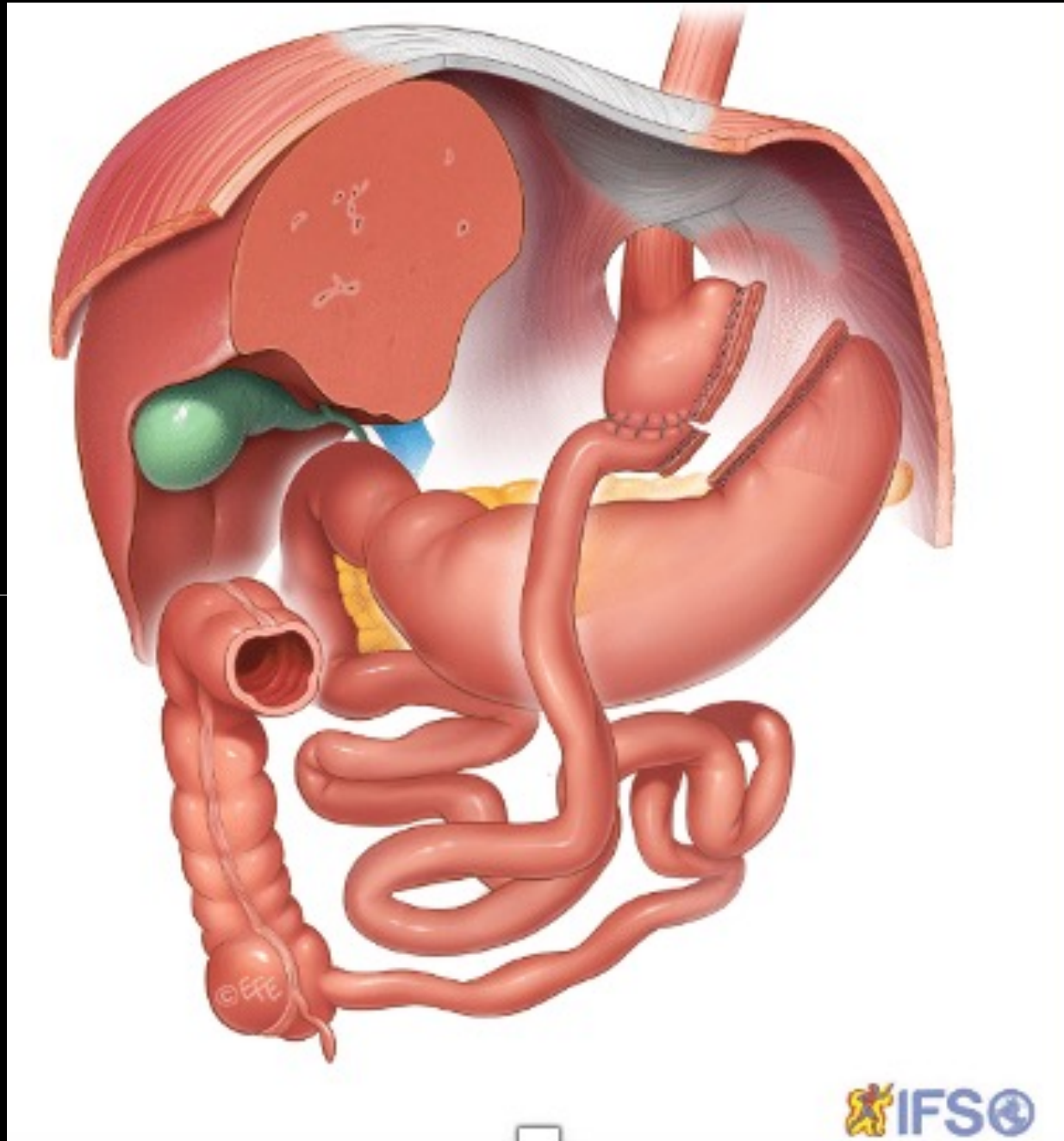
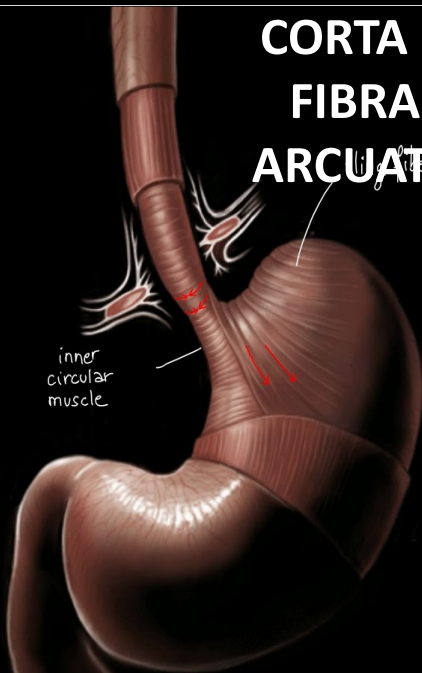
GASTROESOPHAGEAL SYMPTOMS AFTER LAPAROSCOPIC GASTRIC BYPASS: MISTAKES IN PERFORMING THE PROCEDURE?

[Italo Braghetto](#)¹, [Owen Korn](#)¹, [Luis Gutiérrez](#)¹, [Andrés Torrealba](#)¹, [Jorge Rojas](#)¹

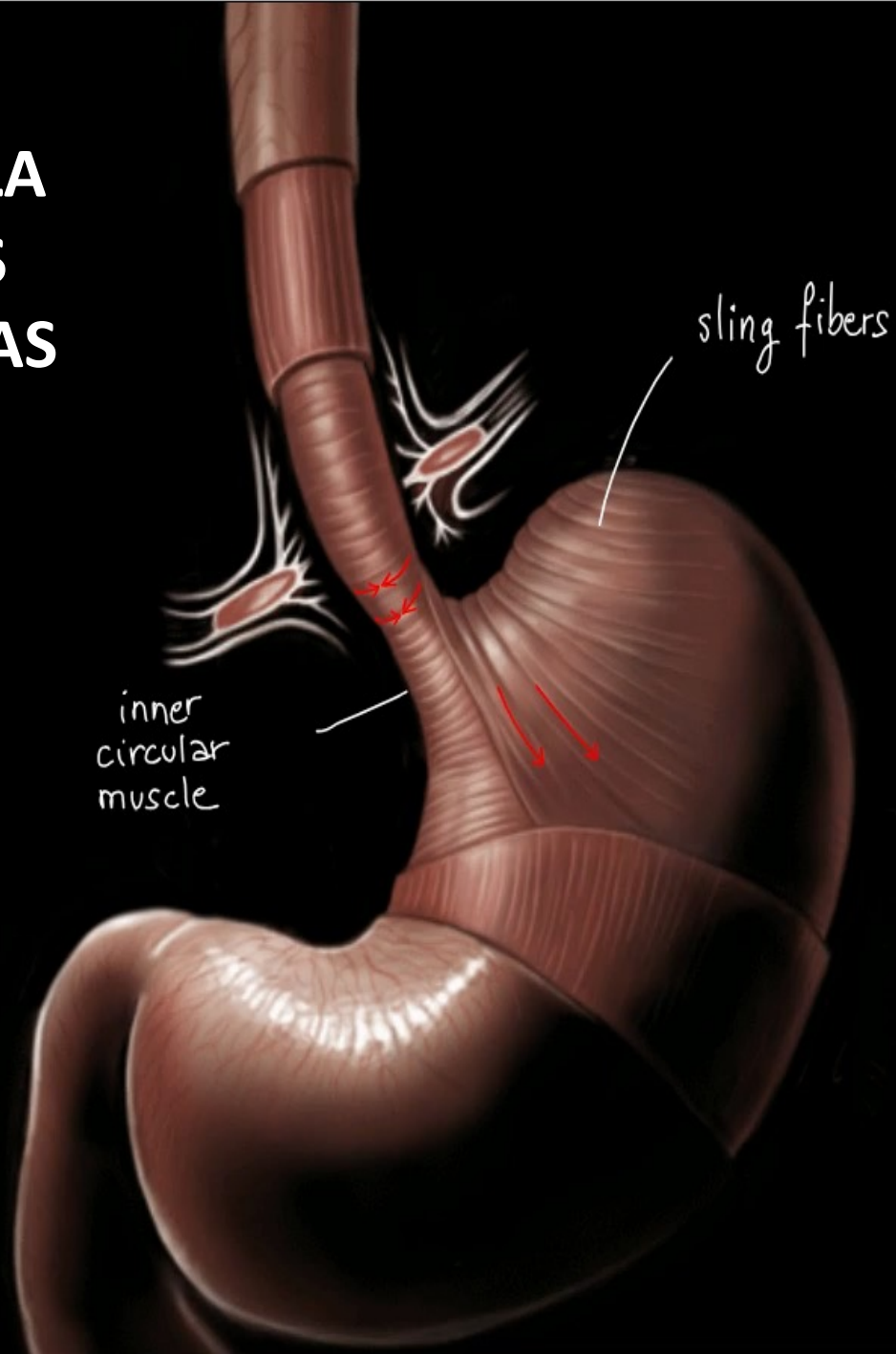
**NO AFECTA LA
PARTE INFERIOR
DEL ESFINCTÉR**



**CORTA LA
FIBRAS
ARCUATAS**



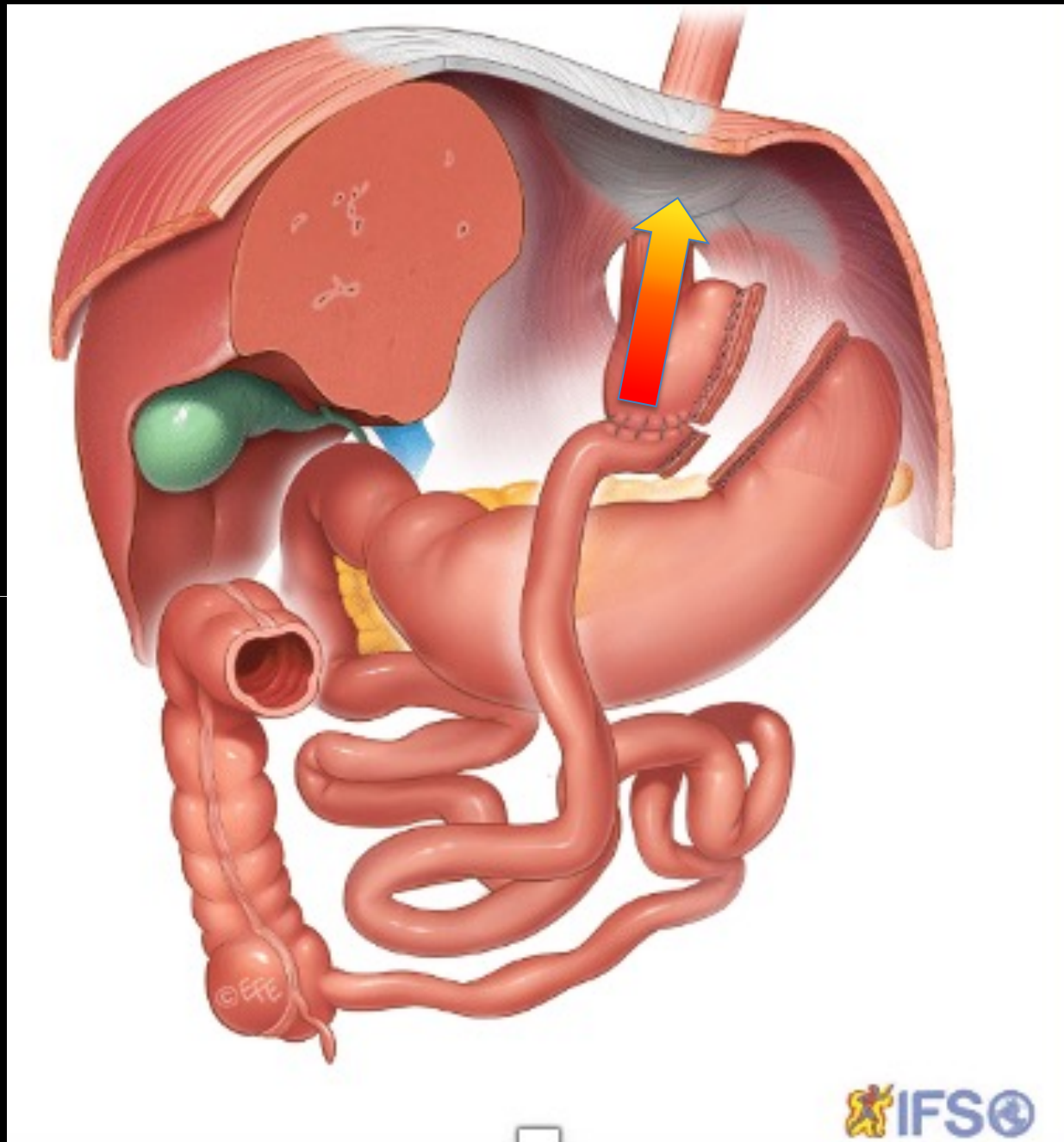
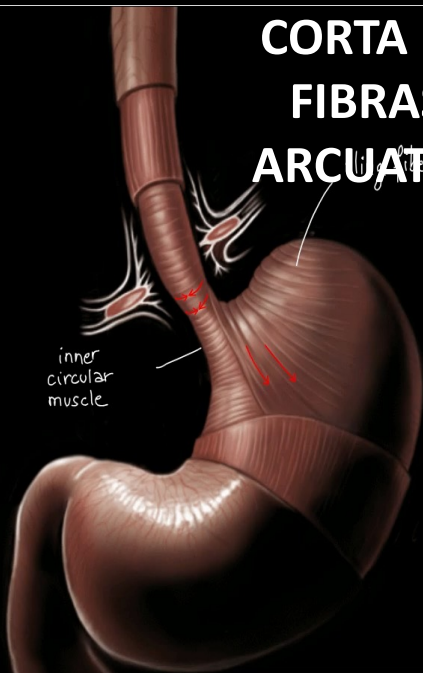
CORTA LA FIBRAS ARCUATAS



**NO AFECTA LA
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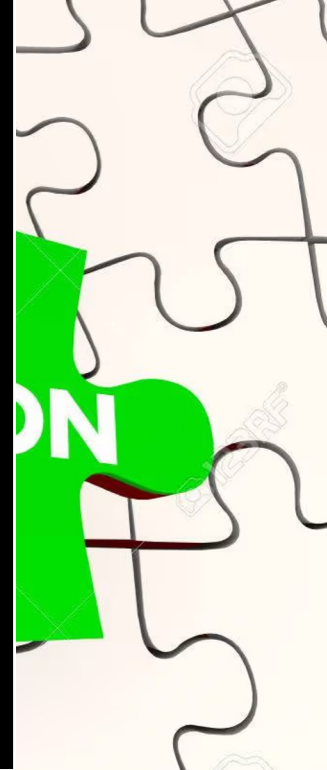
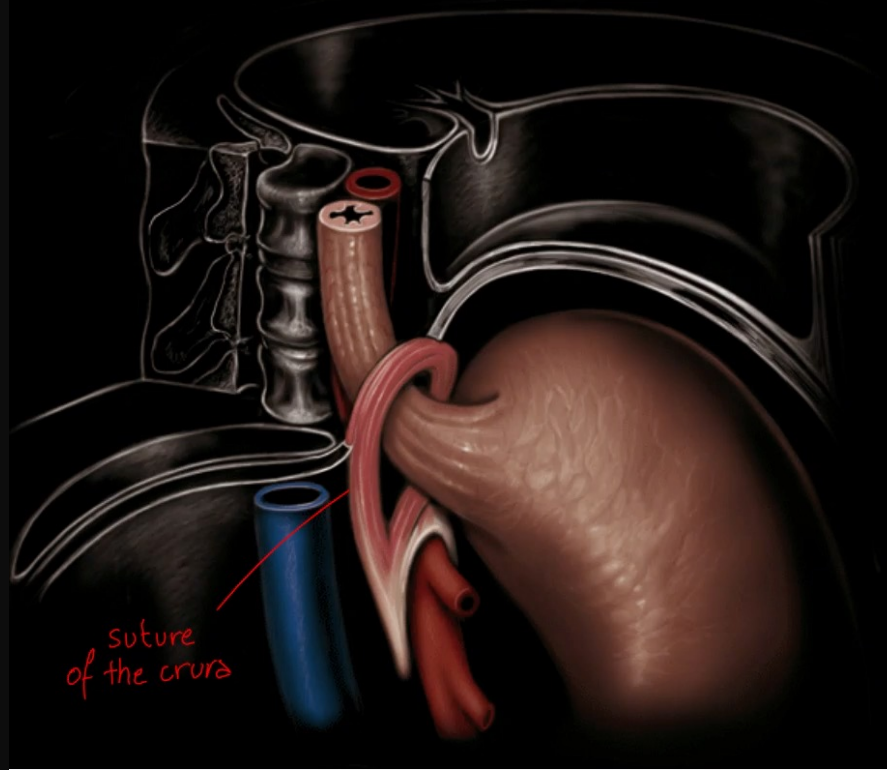
**CORTA LA
FIBRAS
ARCUATAS**



Cirugía

Preventiva

- Reducción de hernia hiatal y cierre de los pilares



SURGERY FOR OBESITY
AND RELATED DISEASES



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ORIGINAL ARTICLE: SURGERY · Volume 16, Issue 4, P471-475, April 2020

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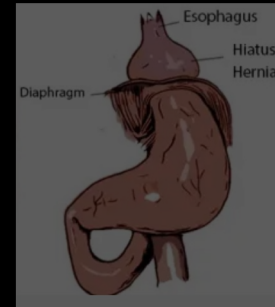
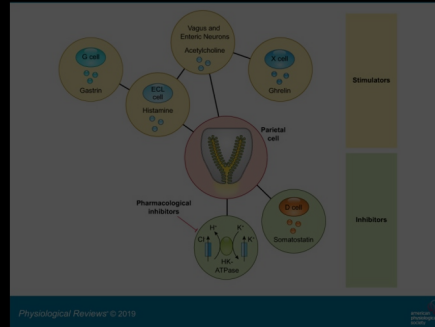
> Arq Bras Cir Dig. 2022 Jun 17;35:e1657. doi: 10.1590/0102-672020210002e1657. eCollection 2022.

GASTROESOPHAGEAL SYMPTOMS AFTER LAPAROSCOPIC GASTRIC BYPASS: MISTAKES IN PERFORMING THE PROCEDURE?

Italo Braghetto¹, Owen Korn¹, Luis Gutiérrez¹, Andrés Torrealba¹, Jorge Rojas¹

Causas del reflujo post BPG

■ Fisiología



■ Anatomía pre GBP : hernia hiatal

■ Cirugía

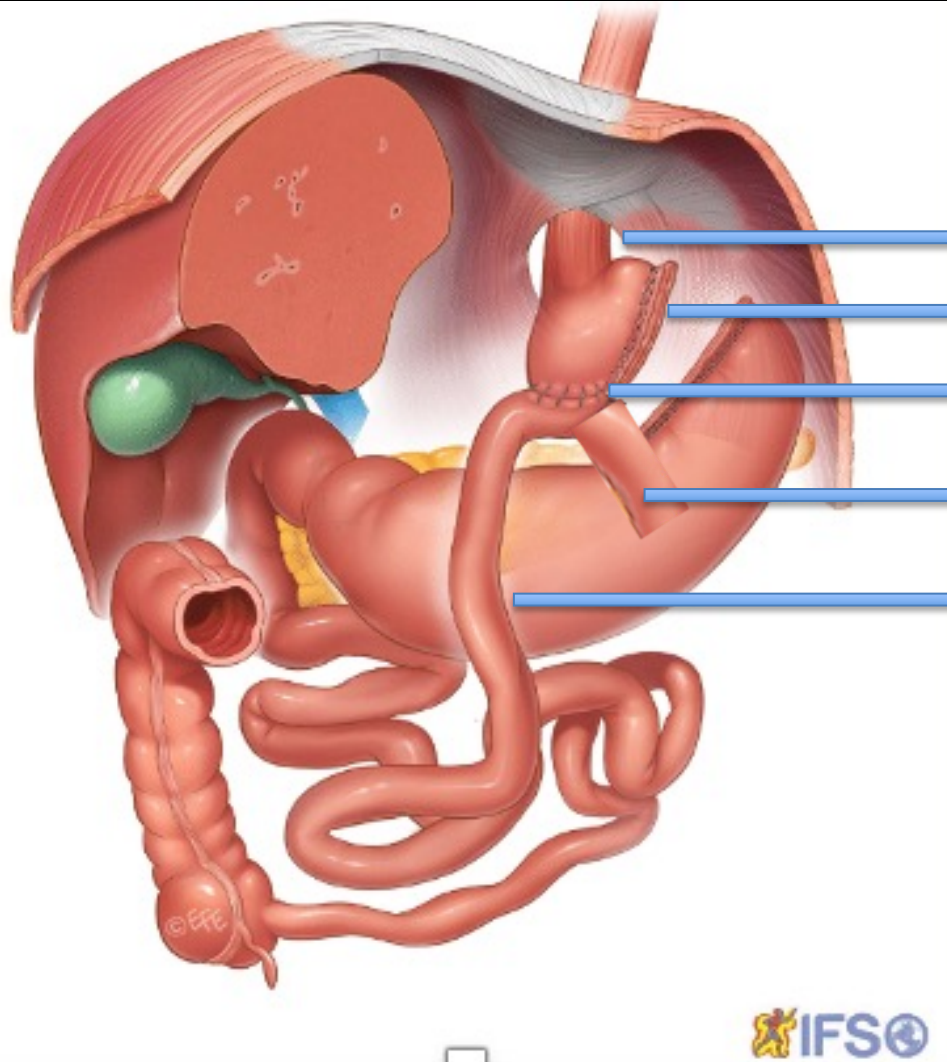
Fáctores técnicos

- Hernia hiatal
- Pouch: grande, horizontal
- Anastomosis estrecha
- Candy Cane proximal
- Asa alimentaria corta (ref. biliar)

Complicaciones

- Estenosis GY
- Fístula Gastro-Gástrica
- Oclusión intermitente

Fáctores técnicos



> [Arq Bras Cir Dig.](#) 2022 Jun 17;35:e1657. doi: 10.1590/0102-672020210002e1657. eCollection 2022.

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Obesity Surgery
<https://doi.org/10.1007/s11695-021-05750-x>

REVIEW

“What Really Matters When Performing a Laparoscopic Roux-en-Y Gastric Bypass?” Literature-Based Key Steps Towards Success and Standardization of the Procedure

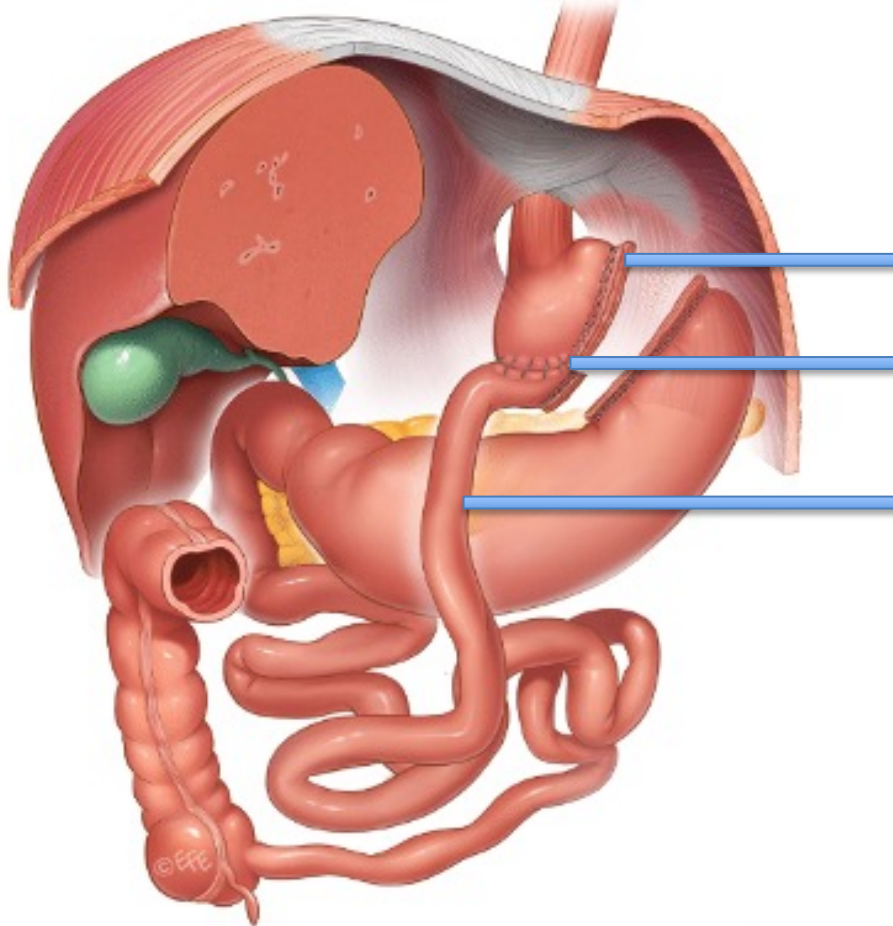
Jean-Philippe M. M. K. Magma¹ · Jacques Himpe²

Fáctores técnicos

> Arq Bras Cir Dig. 2022 Jun 17;35:e1657. doi: 10.1590/0102-672020210002e1657. eCollection 2022.

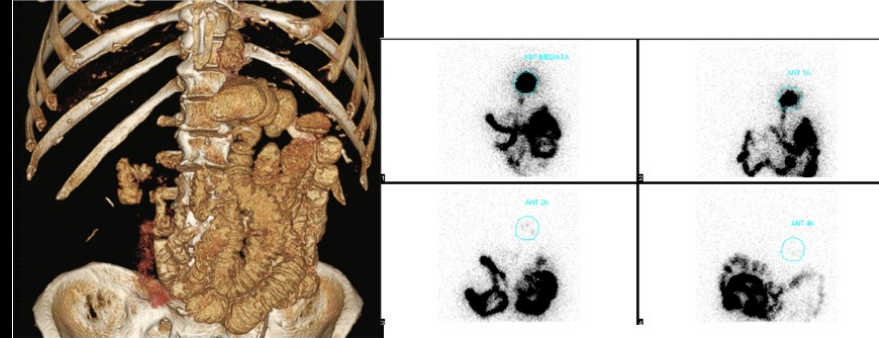
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Italo Braghetto¹, Owen Korn¹, Luis Gutiérrez¹, Andrés Torrealba¹, Jorge Rojas¹



Small-Volume, Fast-Emptying Gastric Pouch Leads to Better Long-Term Weight Loss and Food Tolerance After Roux-en-Y Gastric Bypass

Daniel Riccioppo¹ • Marco Aurelio Santo¹ • Manoel Rocha² • Carlos Alberto Buchpiguel³ • Marcio Augusto Diniz⁴ • Denis Pajekki¹ • Roberto de Cleva¹ • Flavio Kawamoto¹



- Pouch: grande, horizontal
- Anastomosis estrecha
- Asa alimentaria corta (reflujo. biliar)

Observational Study > Surg Endosc. 2017 Apr;31(4):1882–1890.

doi: 10.1007/s00464-016-5188-z. Epub 2016 Aug 23.

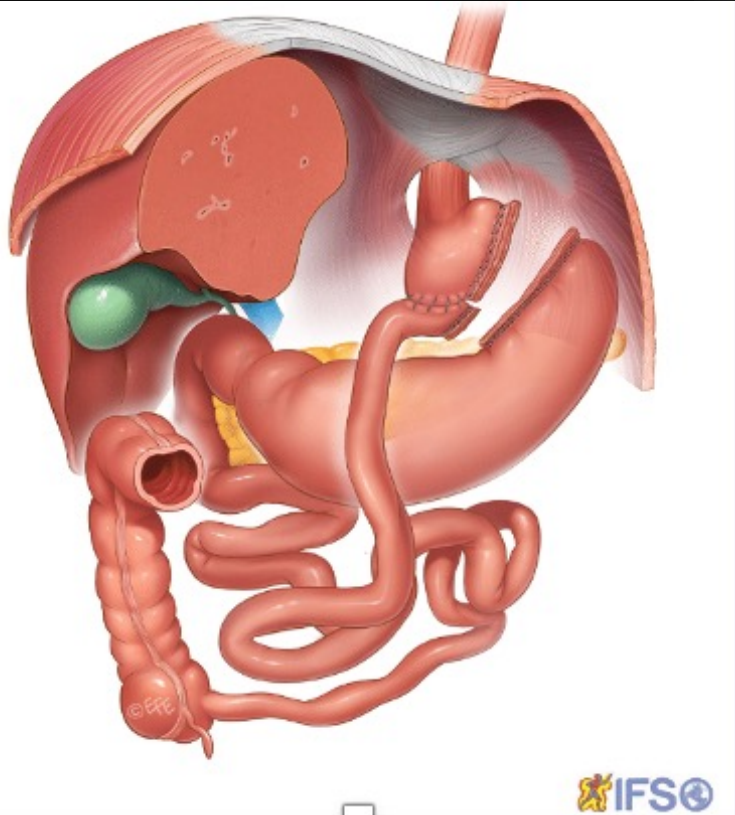
A short or a long Roux limb in gastric bypass surgery: does it matter?

Kemal Dogan¹, Jens Homan², Edo O Aarts², Cees J H M van Laarhoven³, Ignace M C Janssen², Frits J Berends²

Affiliations + expand

PMID: 27553795 DOI: 10.1007/s00464-016-5188-z

Técnica adequada



Obesity Surgery
<https://doi.org/10.1007/s11695-021-05750-x>

REVIEW

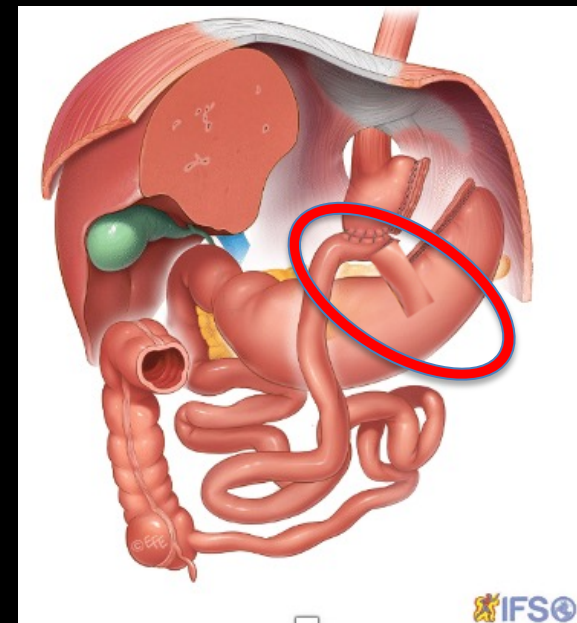
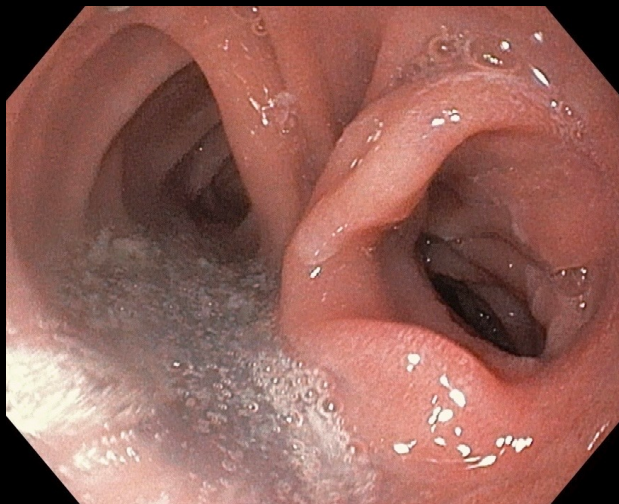
“What Really Matters When Performing a Laparoscopic Roux-en-Y Gastric Bypass?” Literature-Based Key Steps Towards Success and Standardization of the Procedure

Jean-Philippe M. M. K. Magma¹ · Jacques Himpens²

- Pouch: 30 ml
- Anastomosis > 22mm, linear/circular ??
- Asa alimentaria min 60 cm



Candy Cane proximal



21 Art. : 135 pacientes:
Dolor, vómitos, **Reflujo**

- Poco re...conocida
- Resección del muñon:



**Resolución de los síntomas
en el 73%-100%**

► [World J Gastrointest Endosc. 2023 Jul 16;15\(7\):510–517. doi: 10.4253/wjge.v15.i7.510](#)

Candy cane syndrome: A systematic review

[Ricardo Rio-Tinto](#)¹, [Jorge Canena](#)^{2,3,4,5}, [Jacques Devière](#)^{6,7}

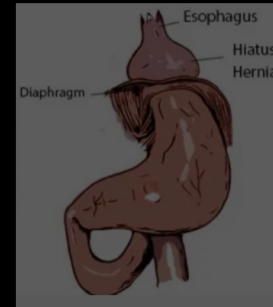
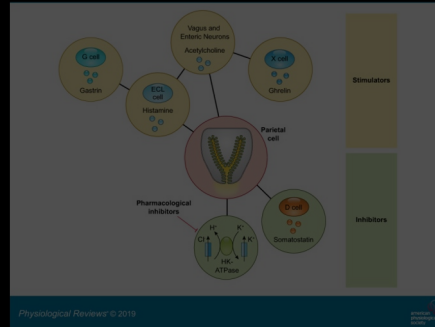
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Causas del reflujo post BPG

■ Fisiología



■ Anatomía pre GBP : hernia hiatal

■ Cirugía

Fáctores técnicos

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Complicaciones

- Estenosis GY
- Fístula Gastro-Gástrica
- Oclusión intermitente

Complicaciones causales de REFLUJO

- **Estenosis GY:** * 5-7%, 4 - 10 semanas después de la cirugía
* Tardía



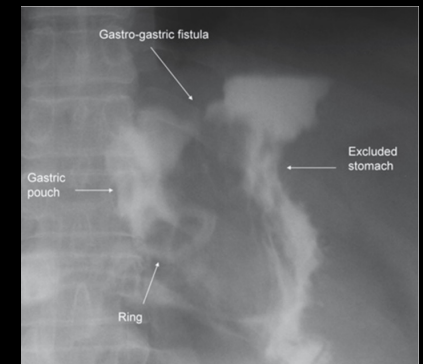
> Arq Bras Cir Dig. 2022 Jun 17;35:e1657. doi: 10.1590/0102-672020210002e1657.
eCollection 2022.

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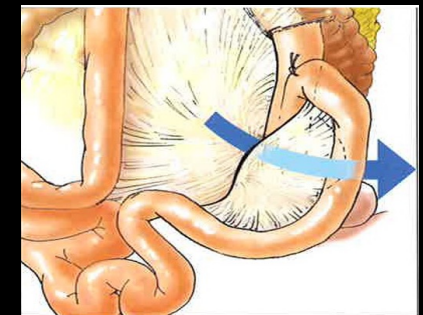
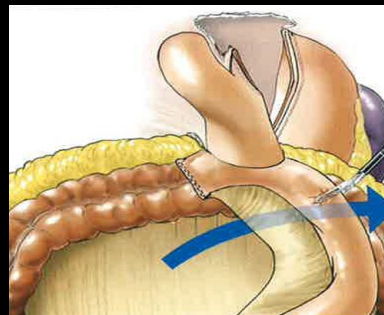
Italo Braghetto¹, Owen Korn¹, Luis Gutiérrez¹, Andrés Torrealba¹, Jorge Rojas¹

Tabaco, alcohol, AINES,
Trastornos alimentarios:
Heridas repetidas / An GY

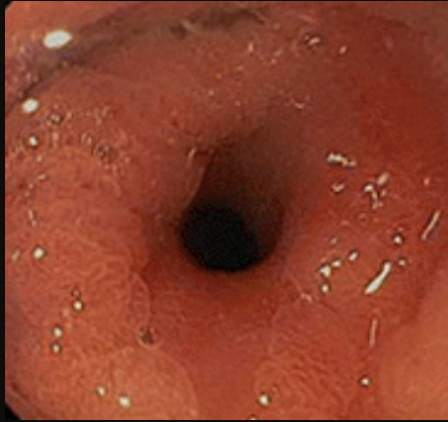
- **Fístula Gastro-Gástrica**



- **Occlusión intermitente**
(e.g. Hernia interna)



Manejo Quirúrgico

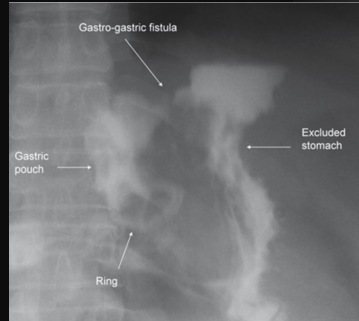


Estenosis GY

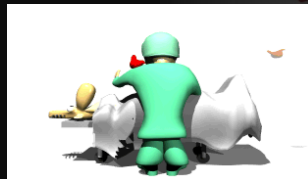
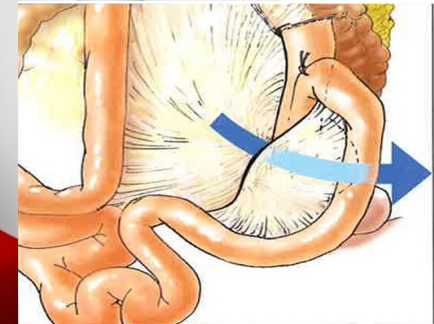
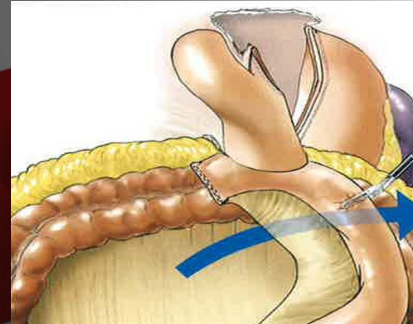
- Dilataciones
- Endoluminal
- Nueva anastomosis

SOLUTION

Fístula Gastro-Gástrica

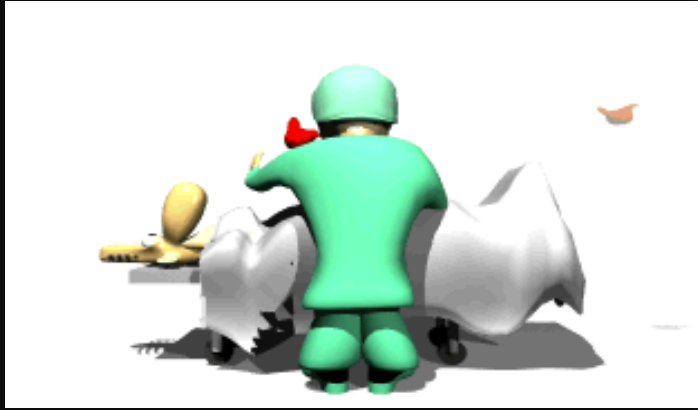


Oclusión intermitente (Gastrojejunitis)



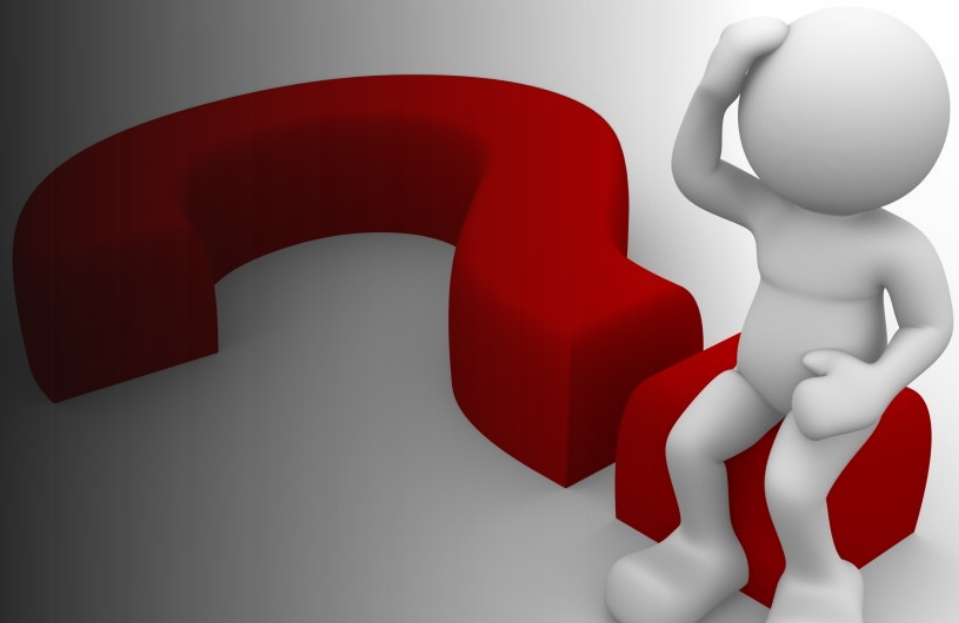
Manejo Quirúrgico

Manejo del Reflujo si “todo está bien”

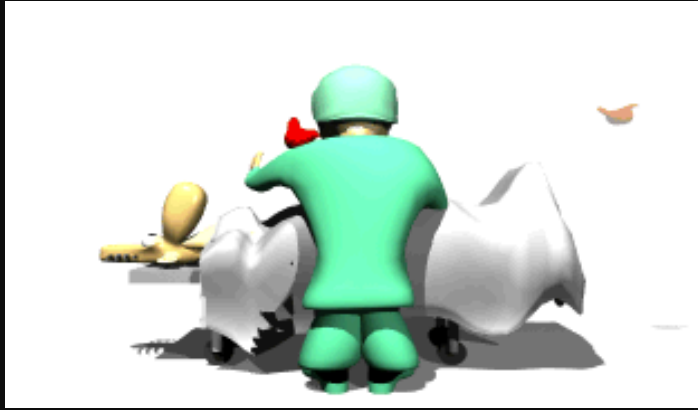


ESTUDIOS:

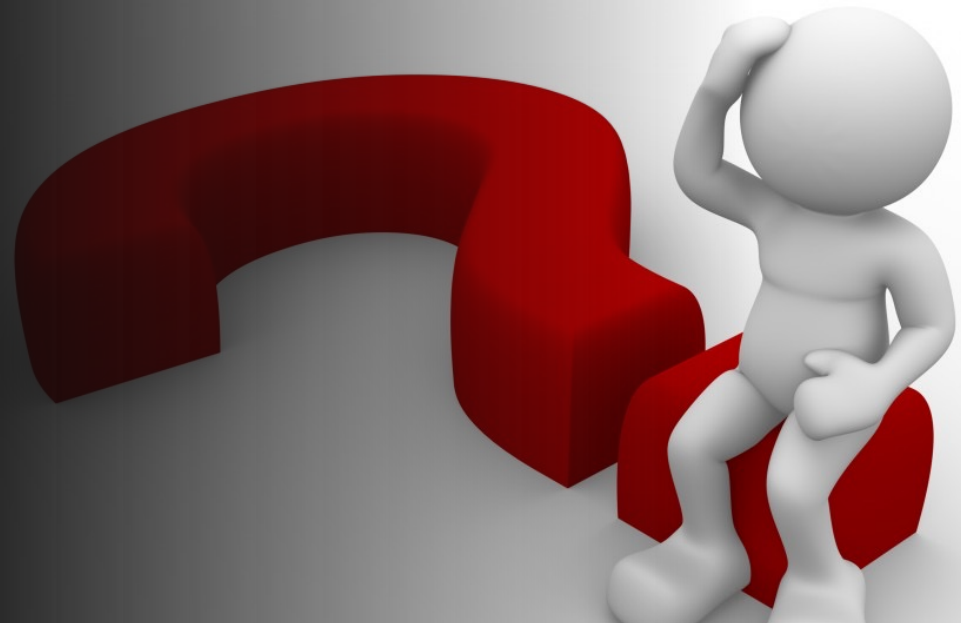
- Endoscopia
- Manometría
- pH e imped. metría
- Opac. anim Eso Gastro Duod



Manejo del Reflujo si “todo está bien”



Exploración hialal y
Corrección si adecuada

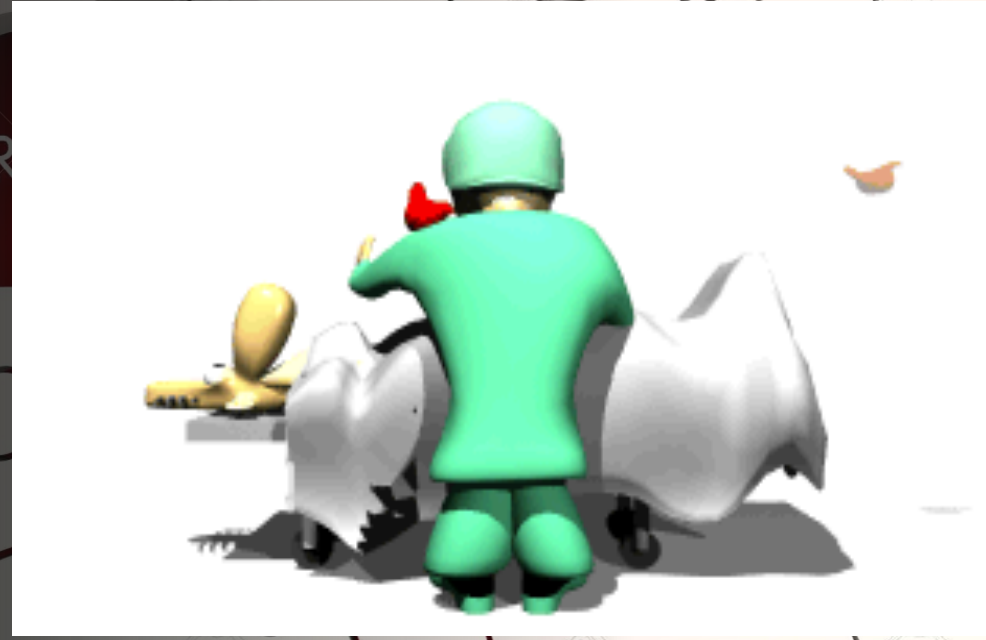


Manejo Quirúrgico del Reflujo si “todo está bien”

☐ Hill Repair

☐ Ligamentum teres

☐ Kahawara funduplicación



☐ Endoscopía: MUSE system™, Stretta™, Esophyx™
EndoCinch



Hill Repair

Comparative Study > Am J Surg. 2011 May;201(5):599-604.

doi: 10.1016/j.amjsurg.2011.02.002.

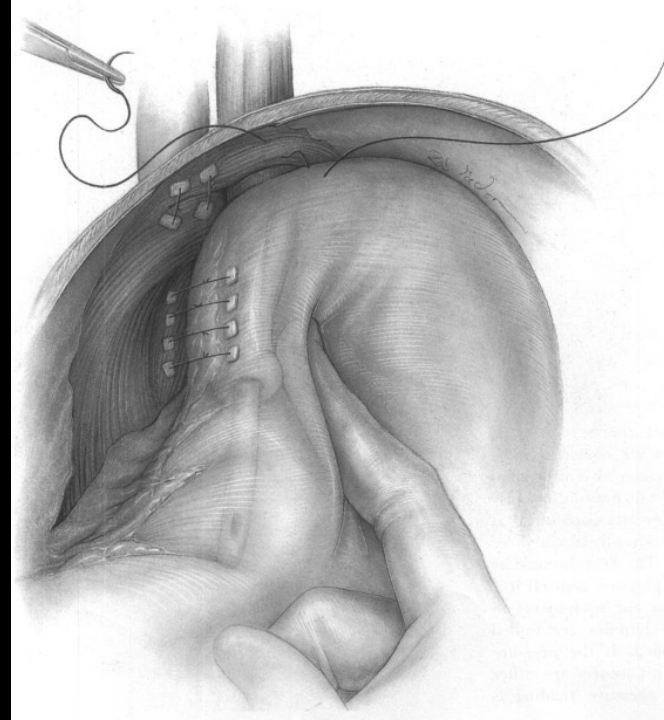
The Hill antireflux repair at 5 institutions over 25 years

Ralph W Aye¹, Dagmar Rehse, Maurice Blitz, Stefan J M Kraemer, Lucius D Hill

Affiliations + expand

PMID: 21545906 DOI: 10.1016/j.amjsurg.2011.02.002

1181 pacientes



97% satisfechos y resultados buenos a excelentes en el 93%

Recurrencia 6.9%



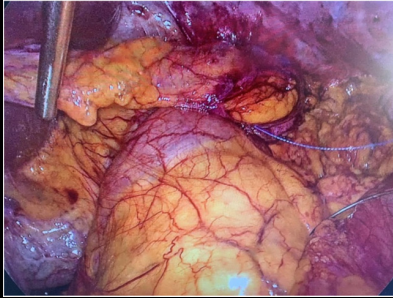
Restricted access | Research article | First published online June 21, 2021

Hill Repair—Why It Is Still Relevant and Should Be Taught

[Navjit Dharampal](#) and [Ralph W. Aye](#) [View all authors and affiliations](#)

[Volume 1, Issue 2](#) | <https://doi.org/10.1177/26345161211025718>

Ligamentum Teres



► [Langenbecks Arch Surg.](#) 2021 Oct 6;406(7):2521–2525. doi: [10.1007/s00423-021-02284-9](#)

Ligamentum teres augmentation (LTA) for hiatal hernia repair after minimally invasive esophageal resection: a new use for an old structure

[Mira Runkel](#)¹, [Jasmina Kuvendjiska](#)¹, [Goran Marjanovic](#)¹, [Stefan Fichtner-Feigl](#)¹, [Markus K Diener](#)^{1,8}

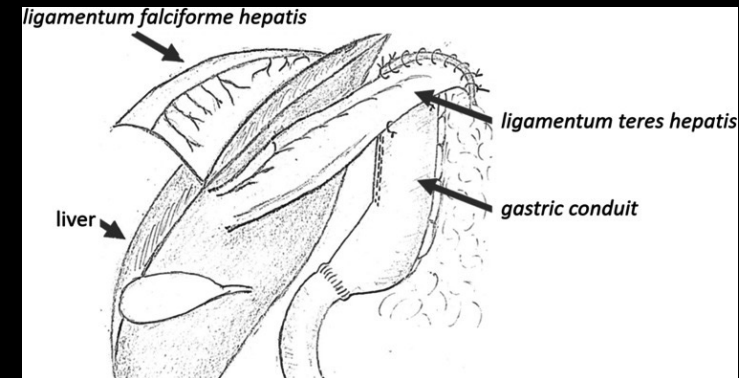
PRELIMINARY NOTES ON A NEW TECHNIC FOR SURGICAL TREATMENT OF HIATAL HERNIAS: CARDIOPEXY BY THE ROUND LIGAMENT.

[NOTES PRÉLIMINAIRES SUR UNE NOUVELLE TECHNIQUE DE CURE CHIRURGICALE DES HERNIES HIATALES: LA CARDIOPEXIE PAR LE LIGAMENT ROND.]

Marseille chirurgical • ISSN: 00254045 • Volume: 16 • Pages: 488 - 491

Article • 1964 • EID: 2-s2.0-3042886894

RAMPAL M. + 2 authors



[Home](#) > [Obesity Surgery](#) > [Article](#)

Augmentation of Hiatal Repair with the Ligamentum Teres Hepatis for Intrathoracic Gastric Migration After Bariatric Surgery

Original Contributions | Published: 06 January 2021

Volume 31, pages 1422–1430, (2021) [Cite this article](#)

[Save article](#)

[Alexander Runkel](#), [Oliver Scheffel](#), [Goran Marjanovic](#), [Sonja Chiappetta](#) & [Norbert Runkel](#)

2015-2019: Hiatal repair+ LT :

↓
**Migración intratorácica
de la manga/ Pouch
(15% vs 72%)**

Efficacia...

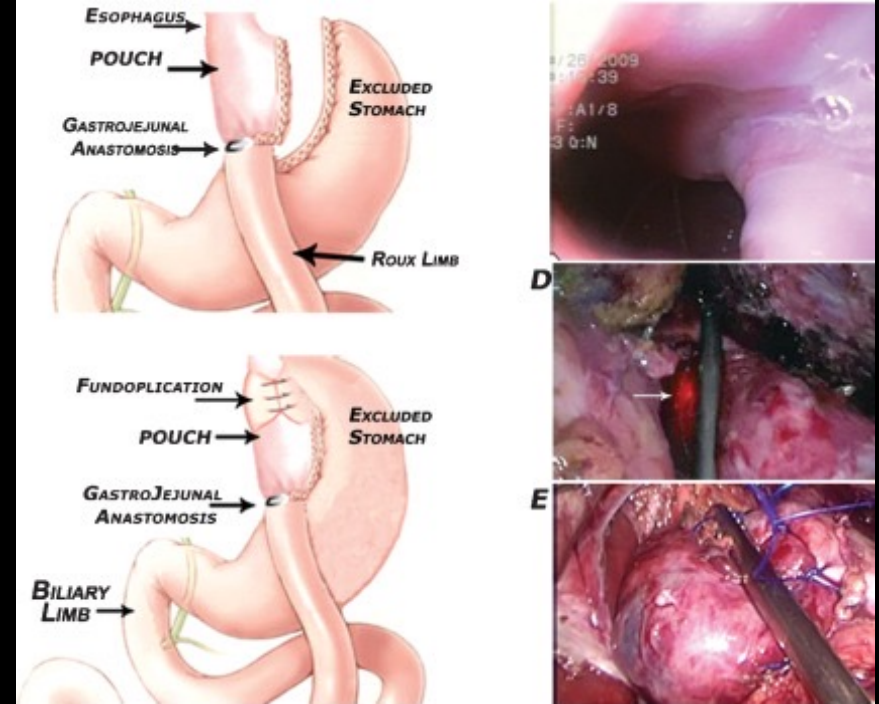


Plicatura del Remanente (Kawahara)

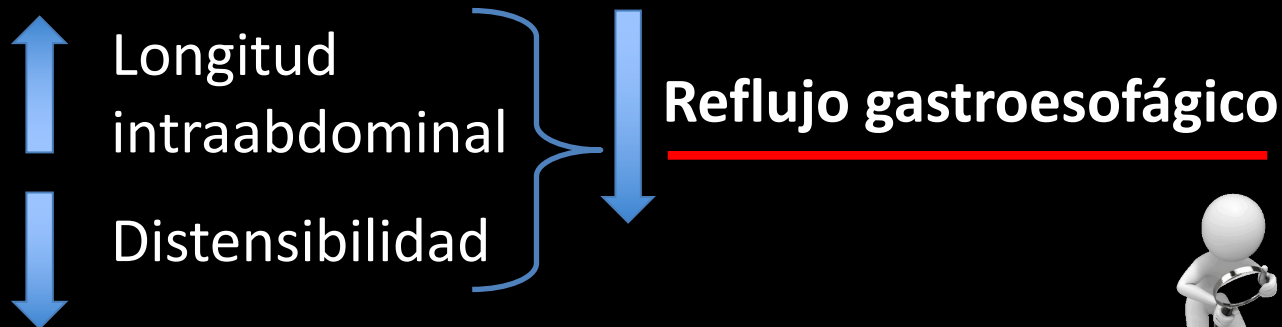
Case Reports > Clinics (Sao Paulo). 2012;67(5):531-3. doi: 10.6061/clinics/2012(05)23.

Modified Nissen fundoplication: laparoscopic antireflux surgery after Roux-en-Y gastric bypass for obesity

Nilton T Kawahara¹, Clarissa Alster, Fauze Maluf-Filho, Wilson Polara, Guilherme M Campos, Luiz Francisco Poli-de-Figueiredo



Esfínter esofágico inferior



Eficacia...

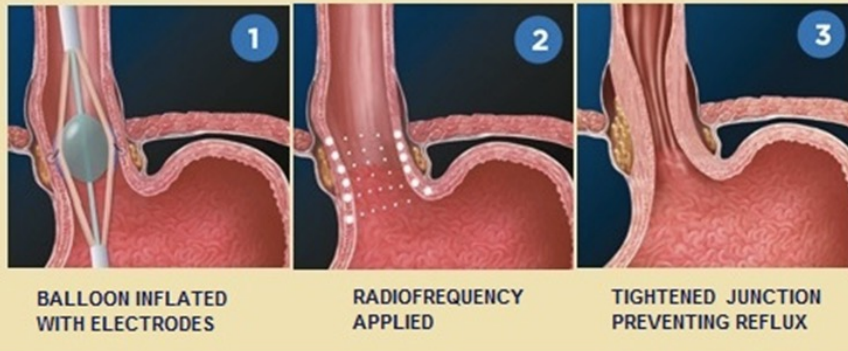


Ausencia de mecanismo antirreflujo dinámico en (>< Nissen o Toupet)

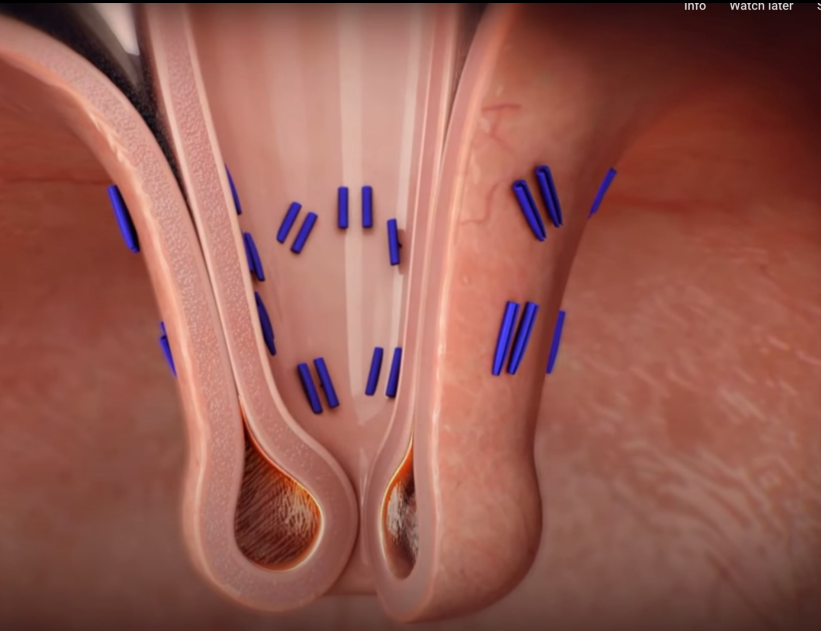
Endoluminal

Stretta

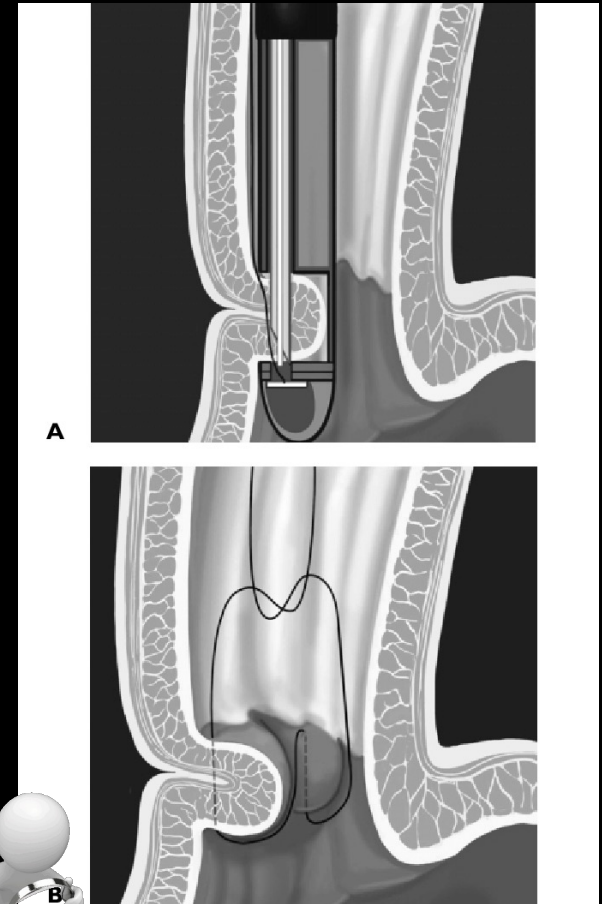
Stretta Procedure



Esophyx



EndoCinch



Efficacia...





Esofagitis eosinofílica

Gastroenterología y Hepatología

Gastroenterología y Hepatología > Esofagitis eosinofílica. Revisión de los conceptos fisiopatológicos y clínicos

Inicio

☰ Todos los contenidos

☰ Publique su artículo

← Artículo anterior | Artículo siguiente →

Vol. 30. Núm. 4.

páginas 207-254 (Abril 2007)

📄 Exponer

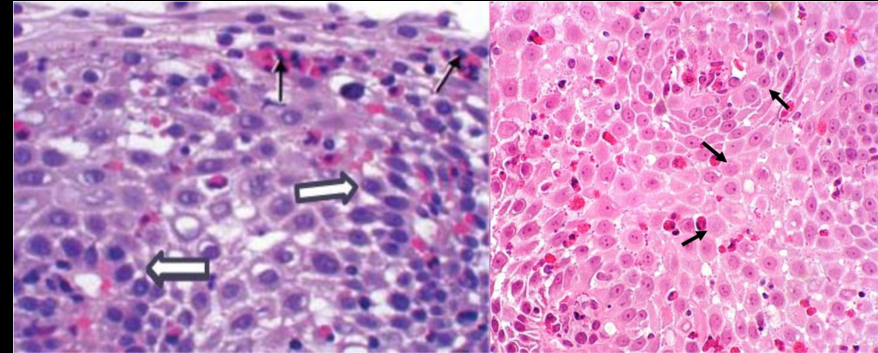
DOI: 10.1157/13100596

🔒 Acceso

Esofagitis eosinofílica. Revisión de los conceptos fisiopatológicos y clínicos actuales

Eosinophilic esophagitis. Review of current clinical and physiopathological concepts

Alfredo J Lucendo Villarín^a, Livia de Rezende^a

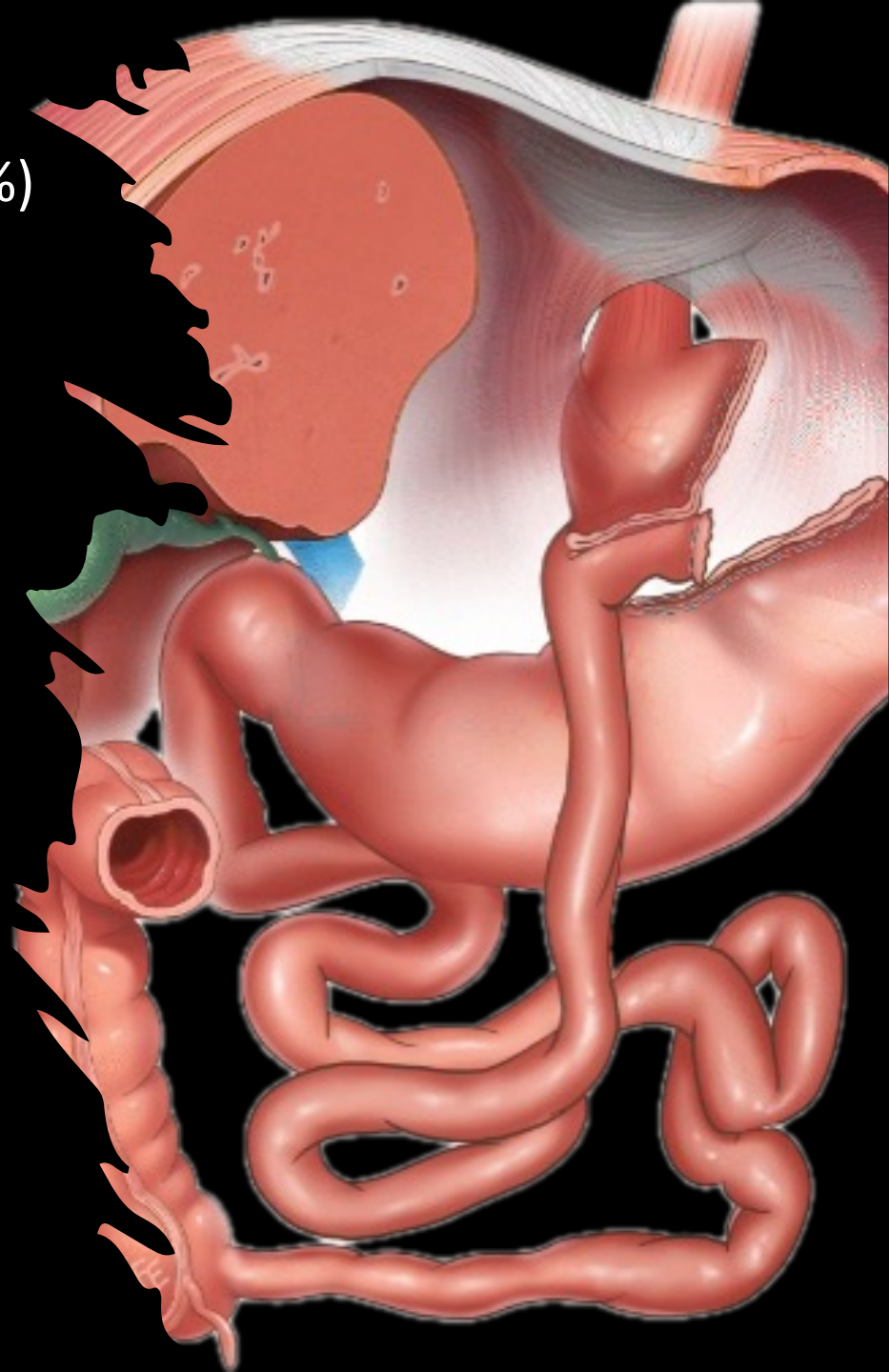


Reflujo que no mejora con medicamentos AH2/ IBP

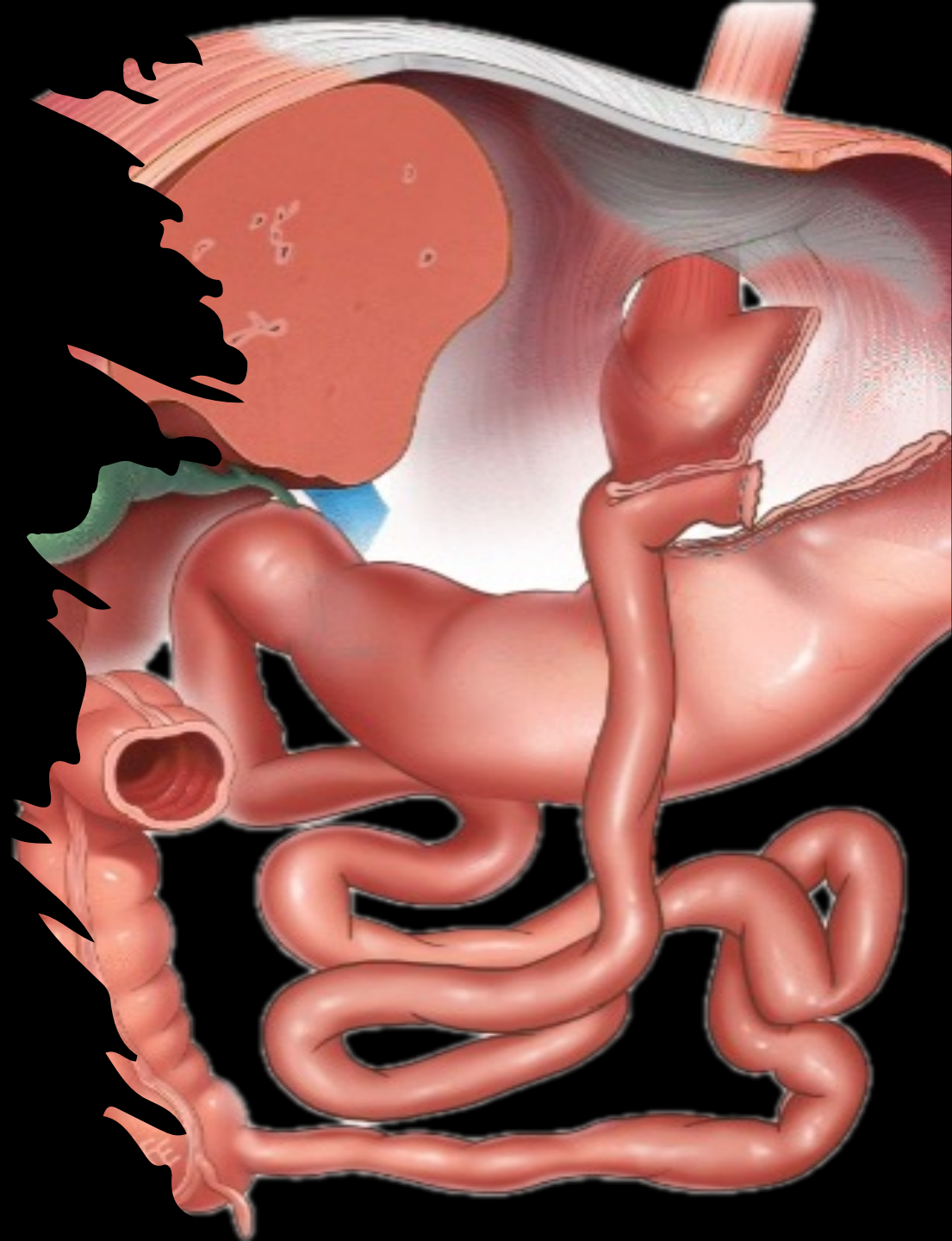
**Manejo particular:
Corticoïdes...**

Take-Home Message

- Reflujo post BPG no es escaso (22%)
- Principalmente ácido
- Estudios pre/post operatorios
- Factores técnicos !!!!!
- **PREVENCIÓN**: técnica adecuada
- Hay procedimientos de **RESCATE**
- Esofagitis eosinofílica



**ByPass Gástrico:
Excelente opción
contra
el reflujo en los
pacientes
obesos**



GRACIAS

Reflujo post Bypass Gástrico

*JPh M ma K MAGEMA, M.D.
CHU UCL Namur, Dinant, Bélgica*

jphmagem@yahoo.fr

VIII CONGRESO CHILENO DE
CIRUGÍA BARIÁTRICA
Y METABÓLICA



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Gracias

Reflujo post Bypass Gástrico

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Bélgica

jphmagma@yahoo.fr





Surgery for Obesity and Related Diseases

Volume 12, Issue 5, June 2016, Pages e51-e54



Open access, online-only case report

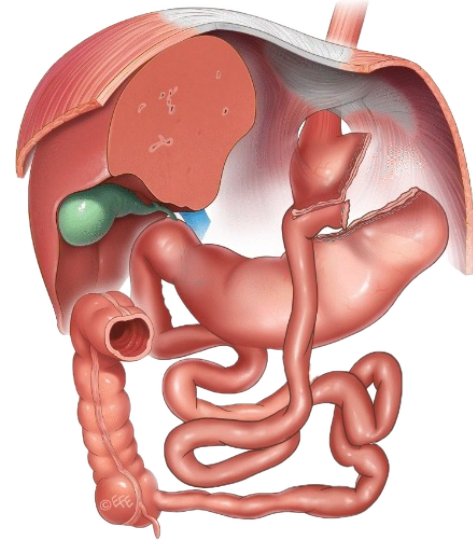
Laparoscopic management of reflux after Roux-en-Y gastric bypass using the LINX system and repair of hiatal hernia: a case report

Abdelkader Hawasli M.D.,  , Adam Phillips D.O., Moayad Tarboush M.D.

Department of Surgery, St. John Hospital and Medical Center, Detroit, Michigan



RYGB PARA PACIENTES OBESOS CON REFLUJO GE



- ☐ Resuelve el Reflujo en el 80 %
- ☐ Lo Mejora en el 11%
- ☐ Persiste en el 8%
- ☐ Empeora en el 1%.



- ☐ Muestra Regresión del Esófago de Barrett en 54.7%
- Progresión del Esófago de Barrett en 1.7%



- ☐ No hay empeoramiento de la motilidad Esofágica sin mostrar una recuperación en los casos de dismotilidad severa
- ☐ Mejora de la pHmetría disminuyendo el TEA Tiempo de exposición al ácido
- ☐ Hay un 8 a 20% que reinician empíricamente el uso de IBP, muchas veces por síntomas NO de Reflujo

Método diagnóstico

➤ Endoscopia

➤ Manometria

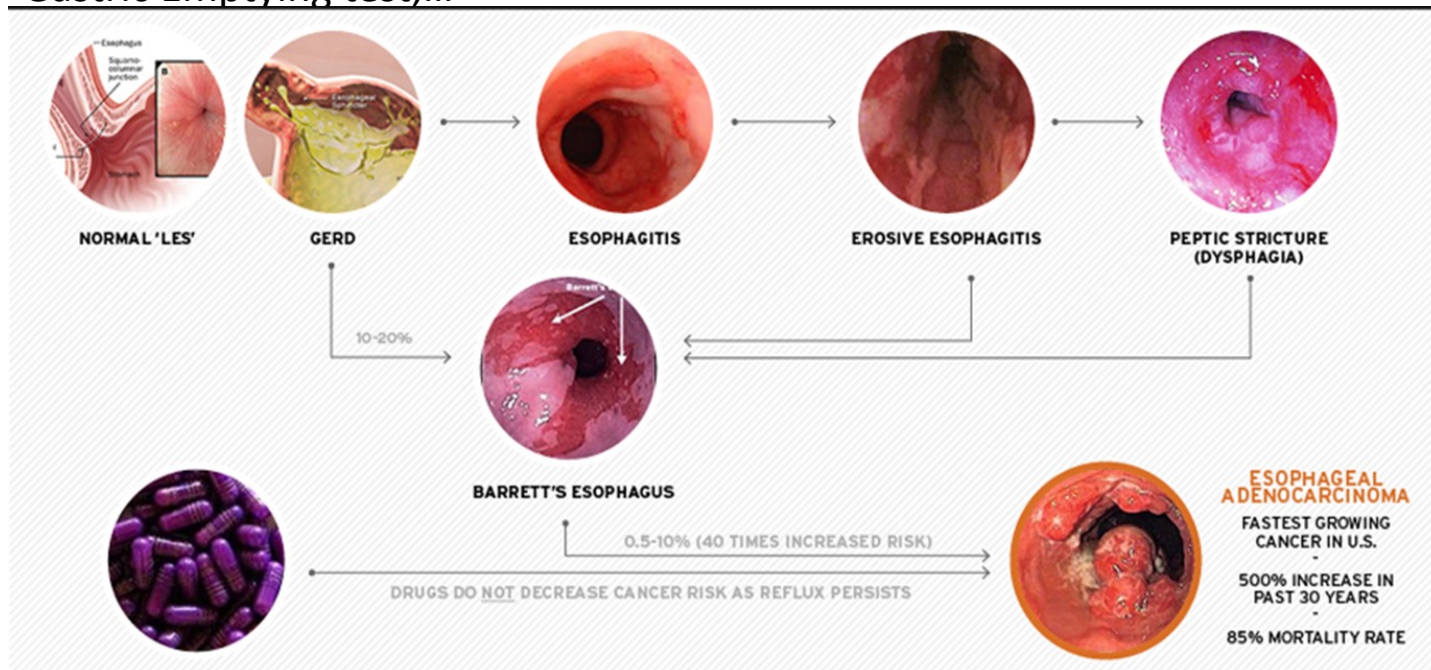
➤ pH metria/ Imped

➤ Esofagogrammo

➤ Gastric Emptying test,...

Una ruptura mucosa es evidencia de ERGE

N



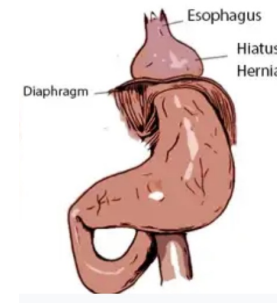
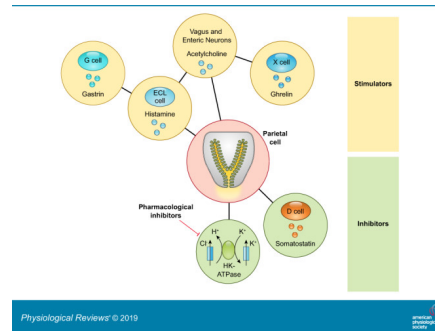


PROBLEM

SOLUTION

Causas del reflujo post BPG

Fisiología



Anatomía pre GBP : hernia hiatal

Cirugía

Factores técnicos

- Hernia hiatal
- Pouch: grande, horizontal
- Anastomosis estrecha
- Candy Cane proximal
- Asa alimentaria corta (ref. biliar)

Complicaciones

- Estenosis GJ
- Fístula Gastro-Gástrica
- Oclusión intermitente

The Montreal definition and classification of gastroesophageal reflux disease: a global evidence-based consensus. *Vakil N, van Zanten SV, Kahrilas P, Dent J, Jones R, Global Consensus Group.*

Am J Gastroenterol. 2006 Aug; 101(8):1900-20; quiz 1943.

“ERGE: Afección que se desarrolla cuando el reflujo del contenido del estómago causa molestias y/o complicaciones”

