

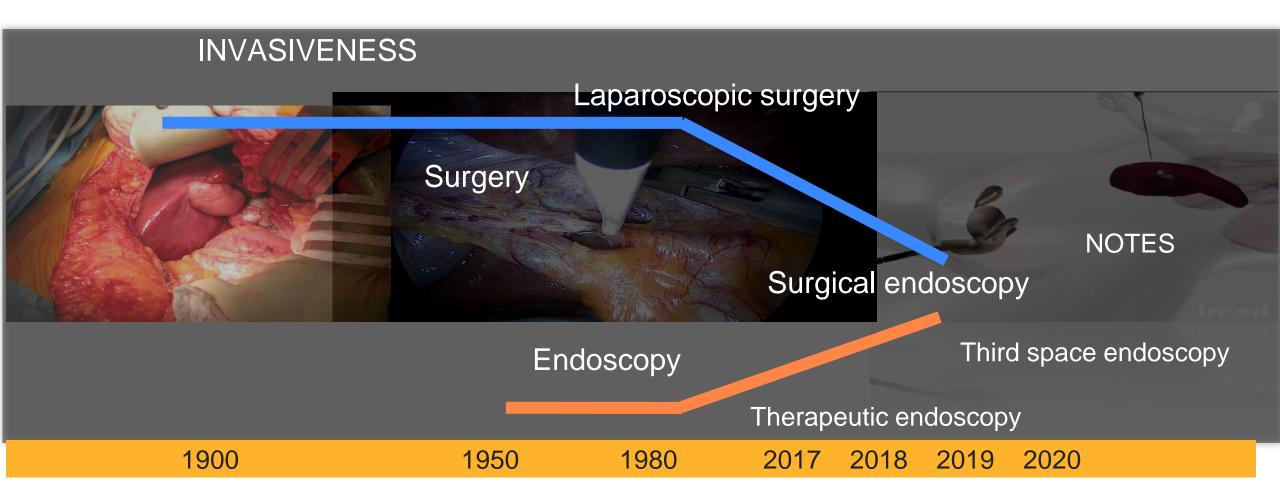
21-22 Dicembre 2020 **XXVIII Congresso** Nazionale SICOB ONLINE

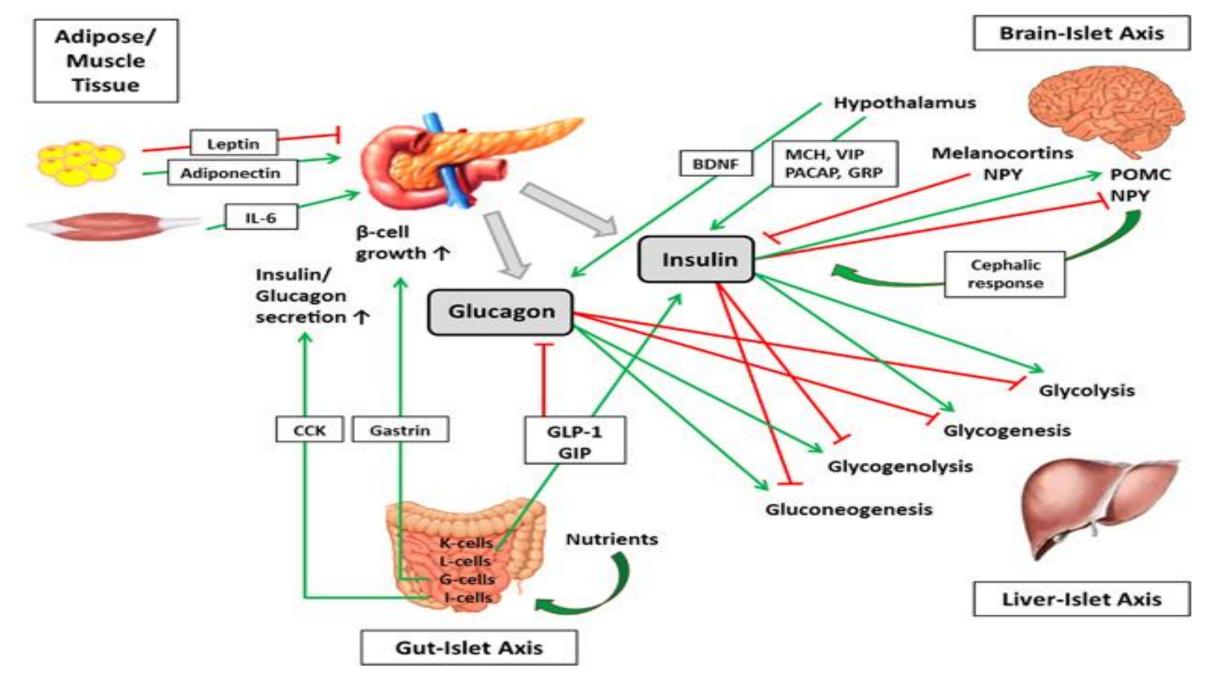
Bariatric endoscopy: the role of the Multy Disciplinary Team

M.G. Carbonelli, F. Micanti

Ivo Boškoski, MD, PhD

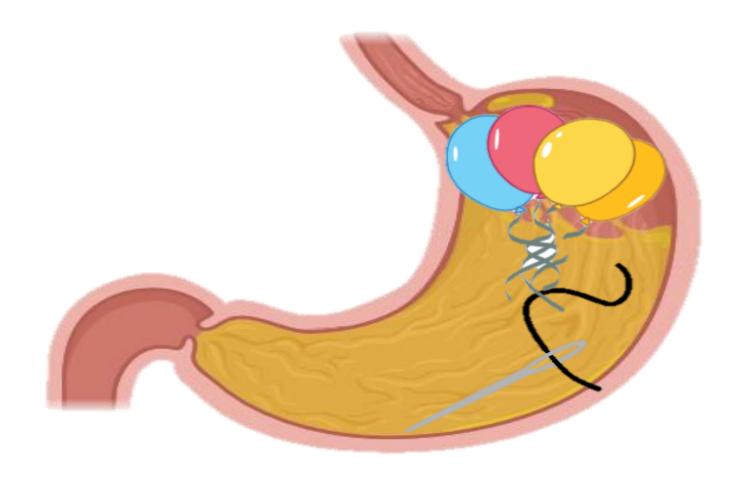
Evolution of surgery and endoscopy





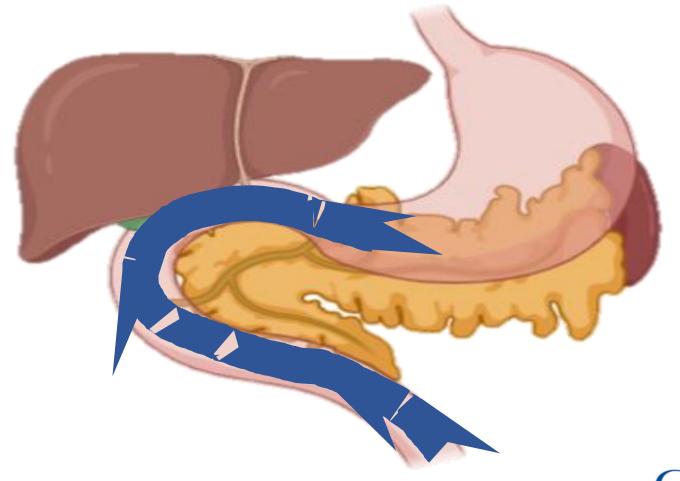
Pia V Röder et al. Experimental & Molecular Medicine 2016

Restrictive Procedures





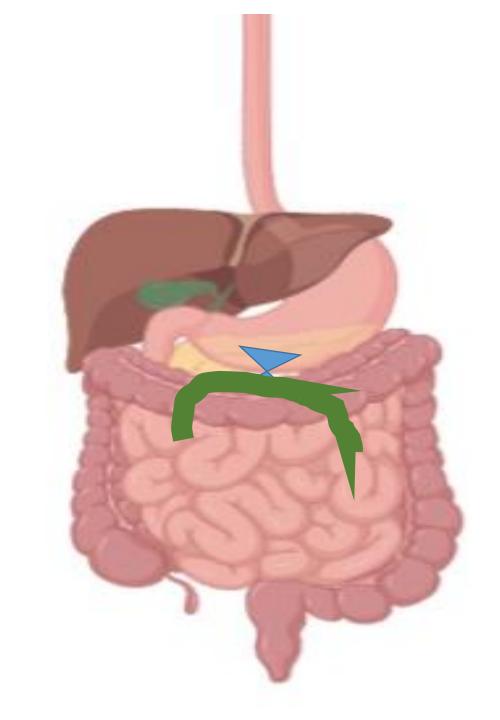
Malabsorptive Procedures



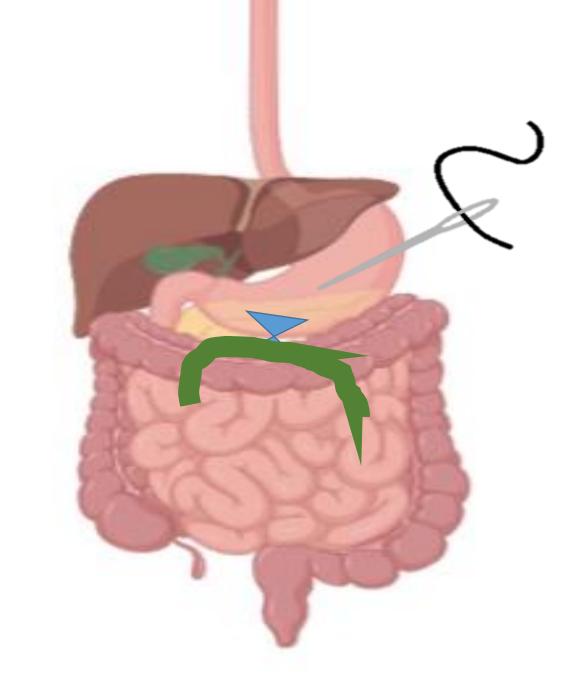


Malabsorptive



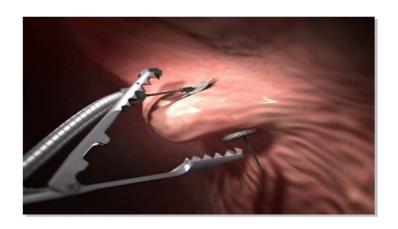


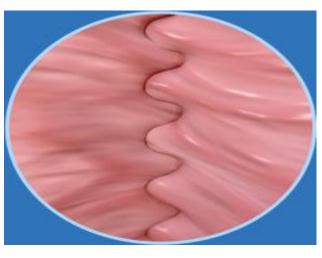
Restrictive & Malabsorptive











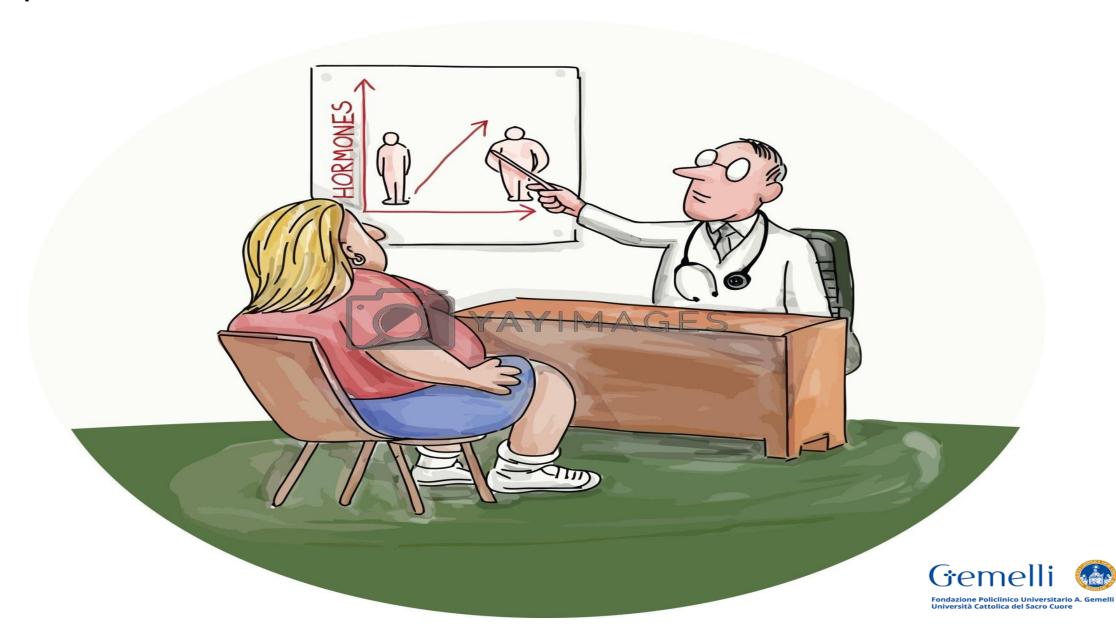








Proper Patient Selection



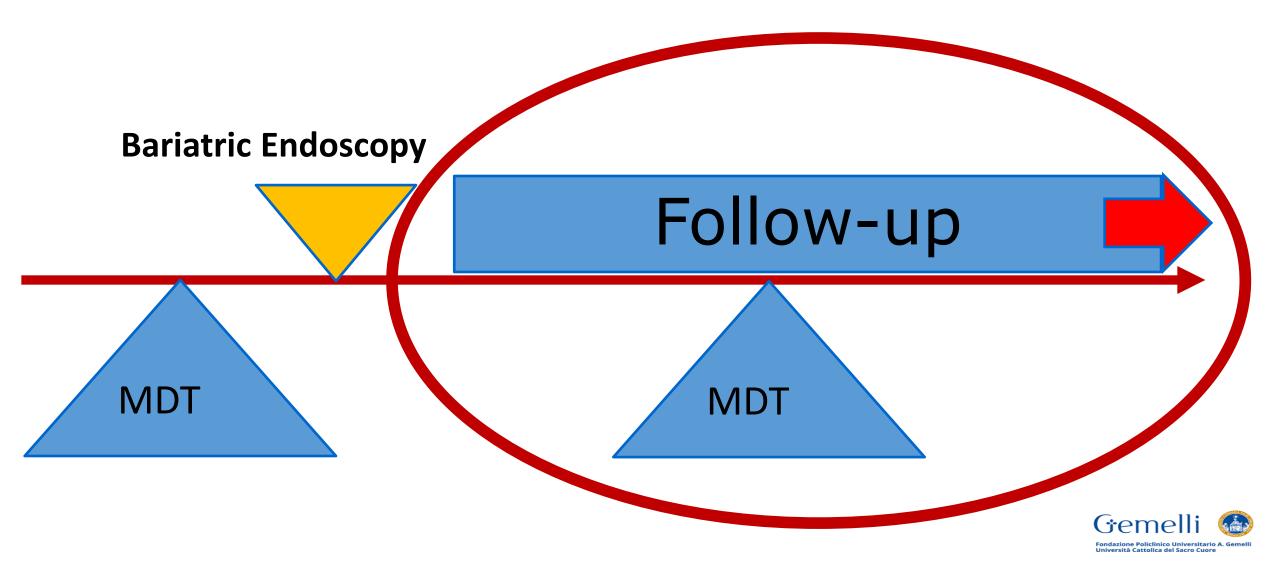
Bariatric Surgery vs Endoscopy







Bariatric Endoscopy



XIFS

ORIGINAL CONTRIBUTIONS



Brazilian Consensus on Endoscopic Sleeve Gastroplasty

Manoel Galvão Neto ^{1,2} • Lyz Bezerra Silva ³ • Luiz Gustavo de Quadros ^{2,4} • Eduardo Grecco ^{1,2} • Admar Concon Filho ^{2,5} • Artagnan Menezes Barbosa de Amorim ⁶ • Marcelo Falcao de Santana ⁷ • Newton Teixeira dos Santos ⁸ • Joao Henrique Felicio de Lima ⁹ • Thiago Ferreira de Souza ^{1,2} • Helmut Wagner Poti de Morais ¹⁰ • Felipe Matz Vieira ¹¹ • Rena Moon ¹² • André F. Teixeira ¹² • • for the Brazilian Endoscopic Sleeve Gastroplasty Collaborative

Received: 6 July 2020 / Revised: 3 August 2020 / Accepted: 10 August 2020 © Springer Science+Business Media, LLC, part of Springer Nature 2020

The ideal BMI range for ESG was 30–40 kg/m² (100%)—according to the participants, better results were achieved in these patients. The minimum BMI is 27 kg/m² (73.2%) with no maximum BMI and each patient should be evaluated individually according to clinical conditions (100%).

ORIGINAL ARTICLE: Clinical Endoscopy

Endoscopic sleeve gastroplasty in the management of overweight and obesity: an international multicenter study (ME) P



Sérgio Barrichello, MD,¹ Diogo Turiani Hourneaux de Moura, MD, MSc, PhD,^{2,3} Eduardo Guimaraes Hourneaux de Moura, MD, MSc, PhD,² Pichamol Jirapinyo, MD, MPH,³ Anna Carolina Hoff, MD,⁴ Ricardo José Fittipaldi-Fernandez, MD,⁴ Giorgio Baretta, MD, PhD,⁵ João Henrique Felício Lima, MD, PhD,⁵ Eduardo N. Usuy, MD,¹ Leonardo Salles de Almeida, MD,⁶ Flavio M. Ramos, MD,⁷ Felipe Matz, MD,⁷ Manoel dos Passos Galvão Neto, MD,⁸ Christopher C. Thompson, MD, MSc, FASGE, FACG, AGAF³

Sao Paulo, Rio de Janeiro, Curitiba, Belo Horizonte, Brazil; Boston, Massachusetts; Miami, Florida, USA

GRAPHICAL ABSTRACT

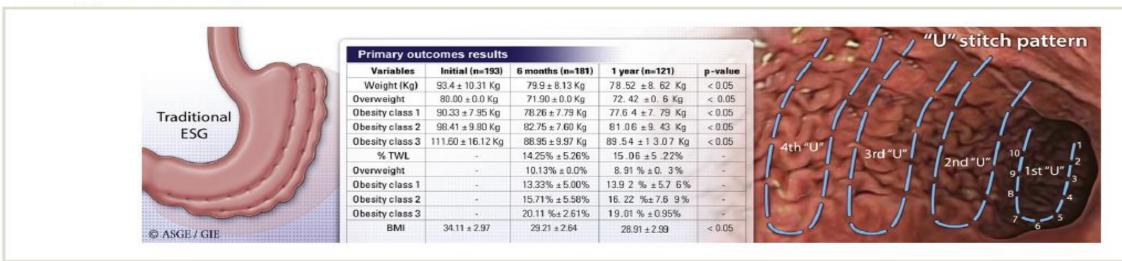


TABLE 1. Follow-up protocol

	Before procedure	1 month	2 months	3 months	6 months	9 months	12 months
Endoscopist	Yes	Yes	No	Yes *	Yes	Yes *	Yes
Nutritionist	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Psychologist	Yes	Yes	No	Yes*	Yes	No	Yes
Physical educator*	Yes	Yes	Yes	Yes	Yes	Yes	Yes

^{*}Not required in all centers.

ORIGINAL RESEARCH

Endoscopic sutured gastroplasty in addition to lifestyle modification: short-term efficacy in a controlled randomised trial

Vincent Huberty , ¹ Ivo Boskoski , ² Vincenzo Bove, ² Pauline Van Ouytsel, ¹ Guido Costamagna, ² Marc A Barthet , ³ Jacques Devière ,

Table 1 Patient data					
Parameter					
Group	Treatment	Control	P value		
N	49	22	_		
Age, mean (years)	37.6	45.3	0.005		
SD	9.9	11.7			
Weight, mean (kg)	93.3	94.7	0.554		
SD	8.8	9.5			
BMI, mean	34.8	34.2	0.367		
SD	2.7	2.5			
Female, n	46	20	0.651		
%	94	91			

Indications to bariatric endoscopy

- BMI > 40 kg/m2 (**Bridge to surgery** and in super obese patients)

- BMI > 35 kg/m2 with diabetes not controlled by medical therapy
- BMI > 30 kg/m2 with comorbidities BMI < 40

- Poor surgical candidates

TABLE 1. Serious adverse events across all major endoscopic sleeve gastroplasty reports totaling 1607 cases³⁻⁷

Serious Adverse Event	Number of Occurrences (%)
Intraabdominal collection	7 (0.4%)
Hemorrhage requiring transfusion or endoscopic intervention	6 (0.4%)
Refractory symptoms requiring ESG reversal	3 (0.2%)
Pneumoperitoneum and pneumothorax	1 (0.1%)
Pulmonary embolism	1 (0.1%)
Perforation or death	0 (0%)
Total	18 (1.1%)

ESG, Endoscopic sleeve gastroplasty.

The number 1 BEt

- Be less invasive
- Be effective
- Be repeatable
- Be easy to perform
- Be cost-effective
- Be fast to perform
- Be available
- Be reversible
- Be attractive
- etc...





From 2017 > 260 pts ESG with Apollo Overstitch @ Gemelli

	N°	Baseline BMI	Mean age	12m %TBWL	24m %TBWL	30m %TBWL
Γ	43 (31 F)	30-35	47.3	21.4±8.2	16.2±7.6	14.2±0.4
	57 (46 F)	35-40	44.3	14.2±7.4	18.4±11.3	18.9±14.8
	41 (19 F)	>40	45.8	19.1±7.4	19.7±8.9	16.1±11.2

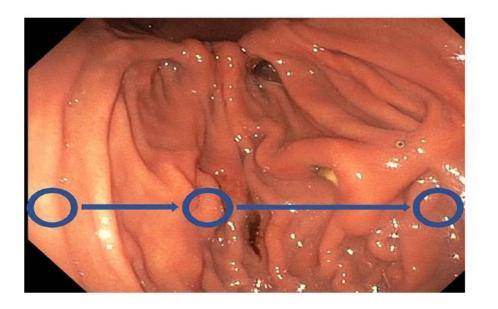


2020, Vol. 13: 1-6

Redo endoscopic sleeve gastroplasty: technical aspects and short-term outcomes

Ivo Boškoski[®], Valerio Pontecorvi, Camilla Gallo, Vincenzo Bove, Lucrezia Laterza and Guido Costamagna



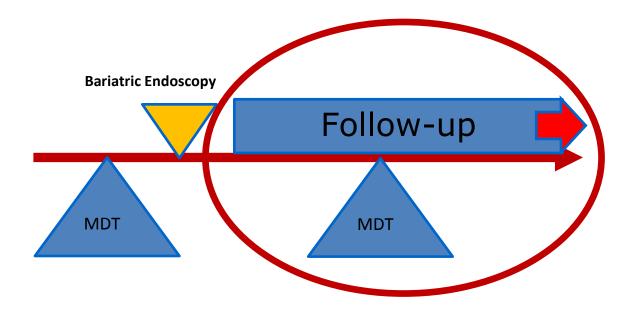


Repeatable and reversible

The future

• ESG in BMI 30 > without comorbidities







ORIGINAL RESEARCH

Small intestinal metabolism is central to whole-body insulin resistance

Giulia Angelini , ^{1,2} Serenella Salinari, ³ Lidia Castagneto-Gissey, ⁴ Alessandro Bertuzzi, ⁵ James Casella-Mariolo, ⁶ Sofie Ahlin, ⁷ Ivo Boskoski , ^{1,2} Melania Gaggini, ⁸ Marco Raffaelli, ^{1,2} Guido Costamagna, ^{1,2} Giovanni Casella, ⁴ Pier Luigi Marini, ⁶ Amalia Gastaldelli , ⁸ Stefan Bornstein, ^{9,10} Geltrude Mingrone , ^{1,2,9}

Proximal gut plays a crucial role in controlling insulin sensitivity through a distinctive metabolic signature involving hepatic gluconeogenesis and muscle insulin resistance.

Bypassing the jejunum is beneficial in terms of insulin-mediated glucose disposal in obesity.

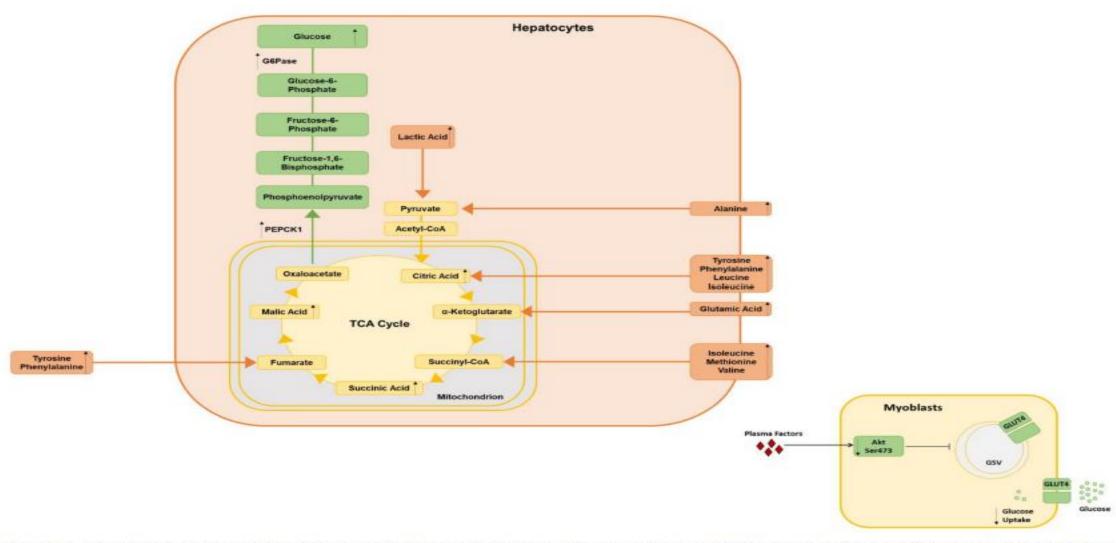
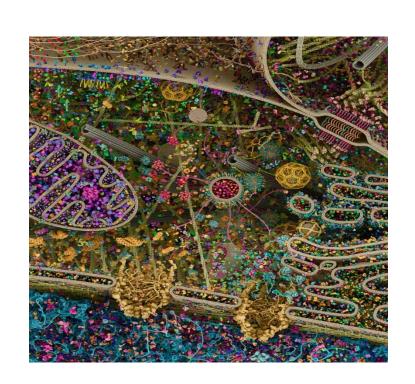


Figure 7 Metabolic pathways related to the metabolites identified in human and pig plasma. The figure shows plasma metabolites that were higher when glucose was administered before BPD as well as in the Thiry-Vella loop as compared with post-BPD or gastric glucose administration following jejunectomy conditions. Some of these metabolites are gluconeogenetic precursors (in orange) promoting liver gluconeogenesis through increased expression of PEPCK1 and G6Pase. The gluconeogenesis pathway and the TCA are schematically represented. Plasma factor/s impair Akt Ser473



Created for Cell Signaling Technology, Inc., and inspired by the stunning art of **David Goodsell**, this 3D rendering of a eukaryotic cell is modeled using X-ray, nuclear magnetic resonance (NMR), and cryo-electron microscopy datasets for all of its molecular actors.

The future of Endoscopic bariatric and metabolic therapies











Thanks and stay safe!

ivo.boskoski@policlinicogemelli.it

