HYBRID METABOLIC AND BARIATRIC INTERVENTIONS

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Disclosures

Ethicon Endosurgery Consultant/Speaker

Medtronic Consultant/Speaker

Olympus Consultant/ Speaker

Boston Scientific Advisory Board

GI Windows Advisory Board

Advantage Bariatrics Consultant

Sager Advisory Board

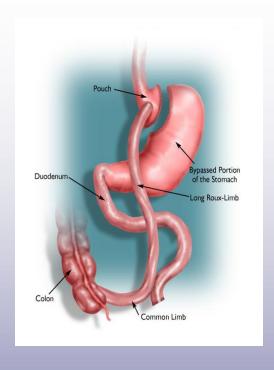
WHY HYBRID APPROACH IS NEEDED FOR BARIATRIC / METABOLIC PROCEDURES

WE ARE NOT FULLY READY TO DO IT ONLY BY ENDOSCOPY OR PERCUTANEOUSLY

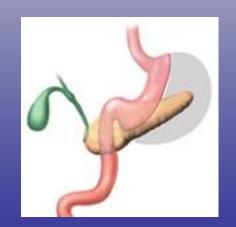
WE ARE NOT READY TO REACH SOME SPECIFIC PLACES WITHOUT SURGICAL INTERVENTIONS

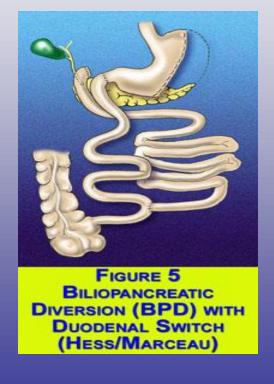
WE DON'T HAVE STILL FULL TECHNOLOGY TO SAFELY DELIVER DEVICES WITHOUT SURGERY

TO HELP CLOSE THE BRIDGE BETWEE LAPAROSCOPY AND ENDOSCOPY WHILE STILL BEING
EVEN LESS INVASIVE THAN BEFORE



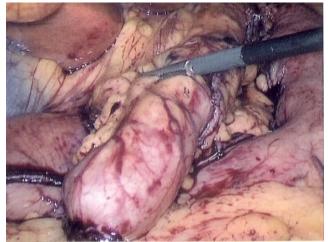


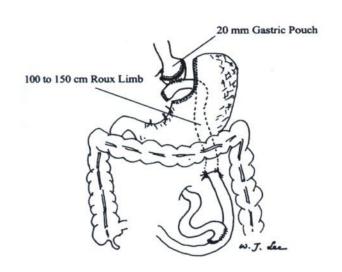


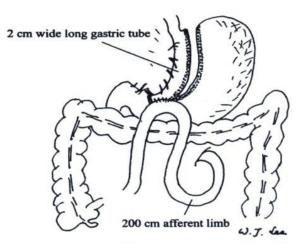


OAGB









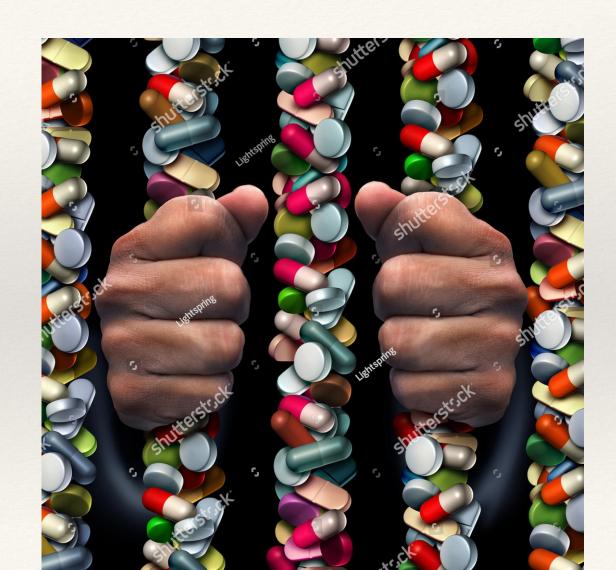
La seguridad es lo primero **√** 🧐



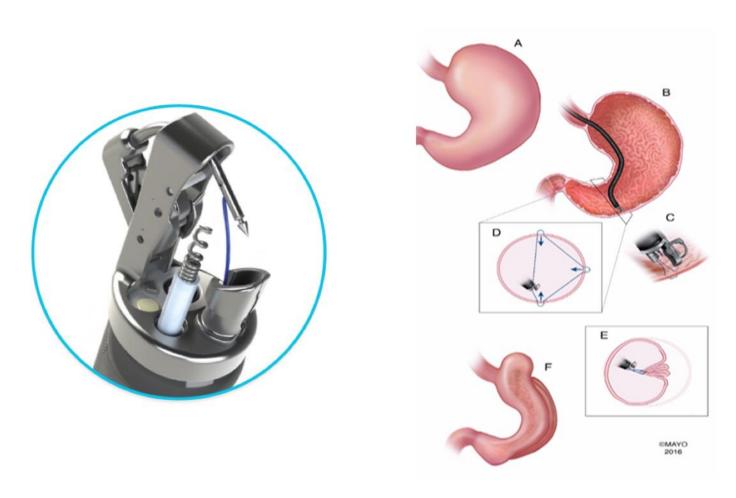
ASMBS Metabolic and Bariatric Surgery Numbers Estimation for 2022

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Total	158,000	173,000	179,000	193,000	196,000	216,000	228,000	252,000	256,000	199,000	262,893	279,967
Sleeve	17.8%	33.0%	42.1%	51.7%	53.6%	58.1%	59.4%	61.4%	59.4%	61.4%	58.1%	57.4%
RYGB	36.7%	37.5%	34.2%	26.8%	23.0%	18.7%	17.8%	17.0%	17.8%	20.8%	21.5%	22.2%
Band	35.4%	20.2%	14%	9.5%	5.7%	3.4%	2.7%	1.1%	0.9%	1.2%	0.4%	0.9%
BPD-DS	0.9%	1.0%	1.0%	.4%	0.6%	0.6%	0.7%	0.8%	0.9%	1.8%	2.1%	2.2%
Revision	6.0%	6.0%	6.0%	11.5%	13.6%	14.0%	14.1%	15.4%	16.7%	11.1%	11.8%	11.0%
SADI	-	-	-	-	-	-	-	-	-	0.2%	0.4%	0.6%
OAGB	-	-	-	-	-	-	-	-	-	0.7%	0.4%	0.4%
Other	3.2%	2.3%	2.7%	0.1%	3.2%	2.6%	2.5%	2.3%	2.4%	0.6%	2.8%	2.2%
Balloon	-	-	-	-	0.3%	2.6%	2.8%	2.0%	1.8%	1.4%	1.6%	1.6%
ESG	-		-	-	-	-	-	-	-	0.8%	0.8%	1.6%

WHY ENDOSCOPY and MEDICATIONS?

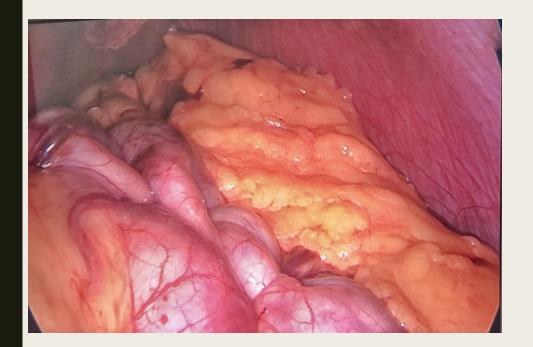


Endoscopic Sleeve Gastroplasty





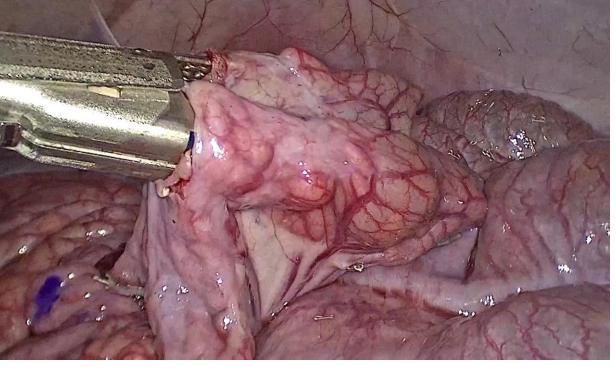
Abu Dayyeh and Gostout GIE 2013 Sep;78(3):530-5

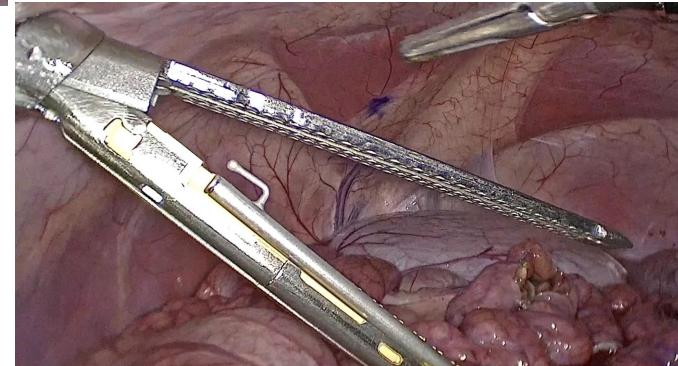






EASIER STAPLING



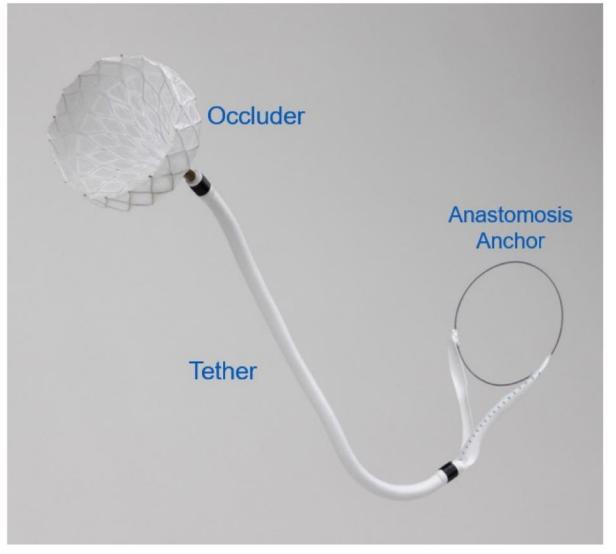


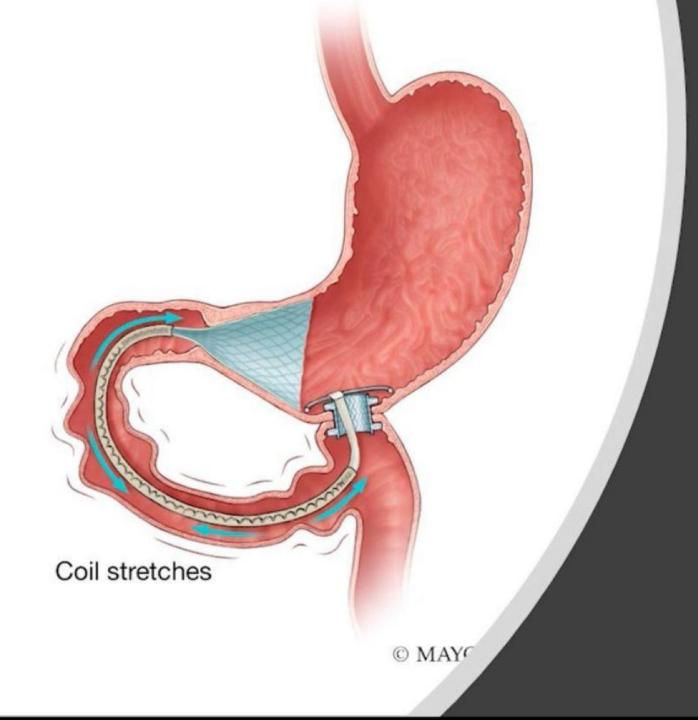
LESS INVASIVE ANASTOMOSIS

BY ENDOSCOPY...



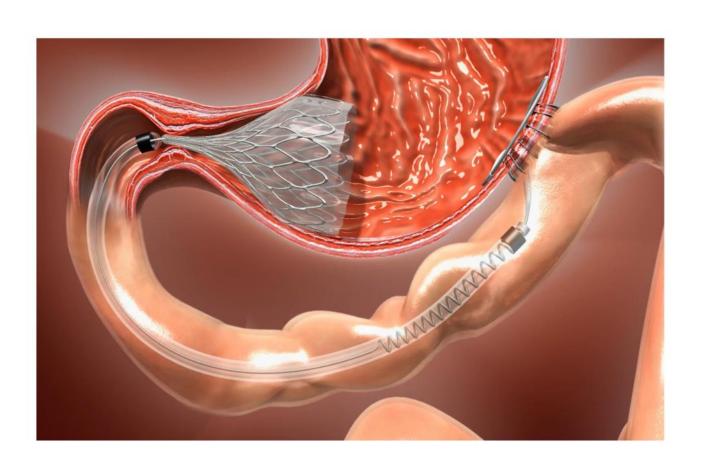






Novel Dynamic Equilibrium Anchoring System that Accommodates the Motility of the GI Tract and Prevents Migration

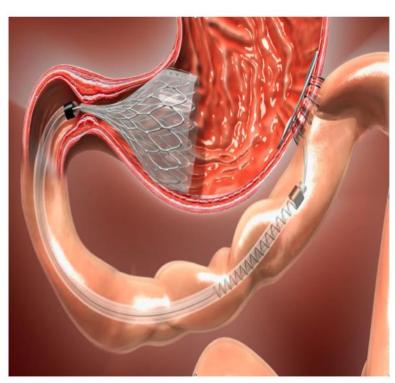
Innovation and Clinical Advancement: Leveraging the Gut as a Therapeutic Target

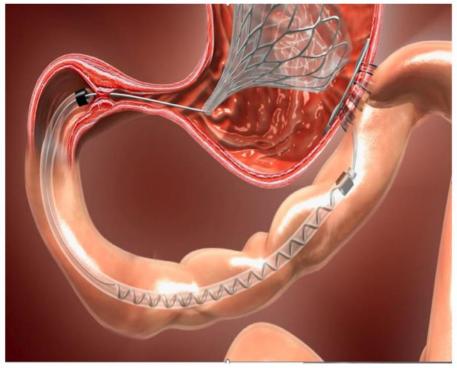


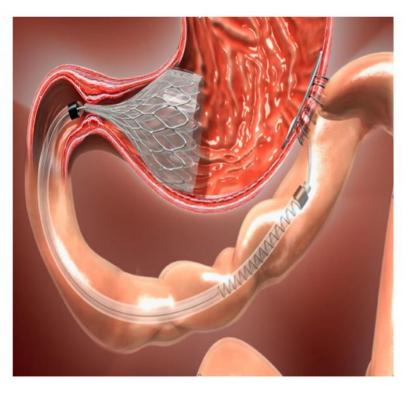
Scalable & Reversible Metabolic Surgery

- Organ sparing + modular
- Dual mechanism of action: Gastric Restriction and duodenal bypass
- Dynamic and Atraumatic Anchoring: Minimize and mitigate migration risk
- Light weight to maximize patient tolerance
- Endoscopic Delivery/Retrieval
- Integrate with a clinically established, safe, and easily reversable single laparoscopic gastrojejunal anastomosis

Dynamic Non-Traumatic Anchoring





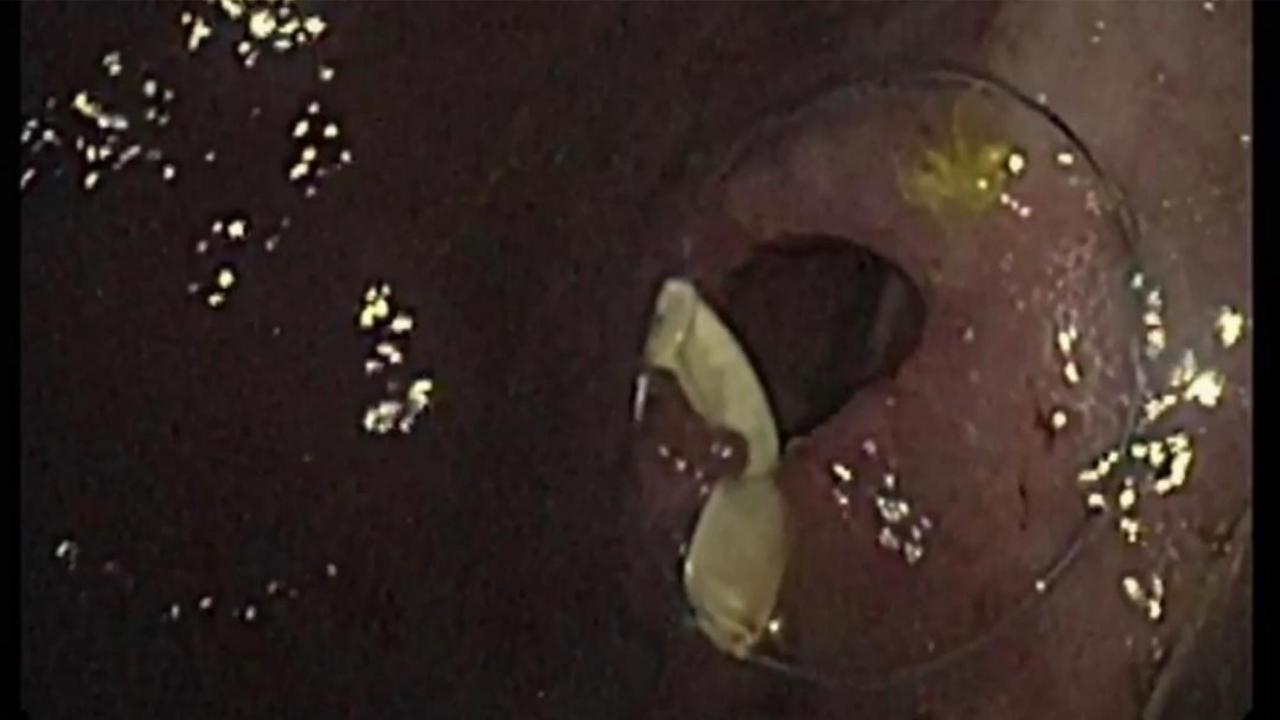


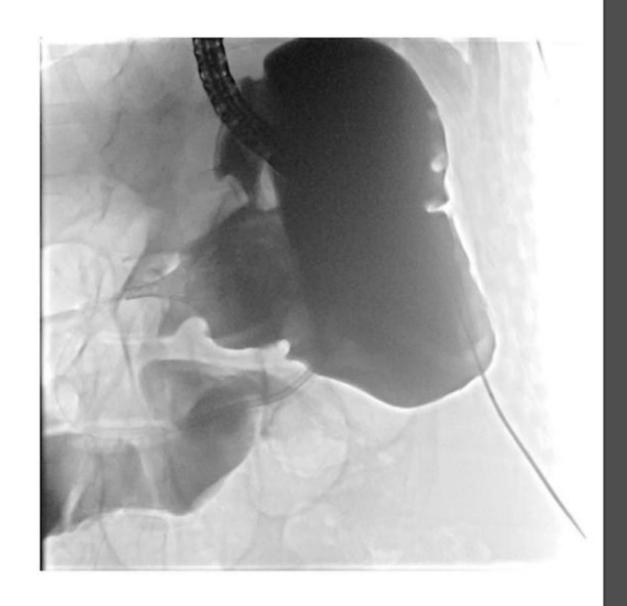
Contraction / Dynamic Spring Adjustment

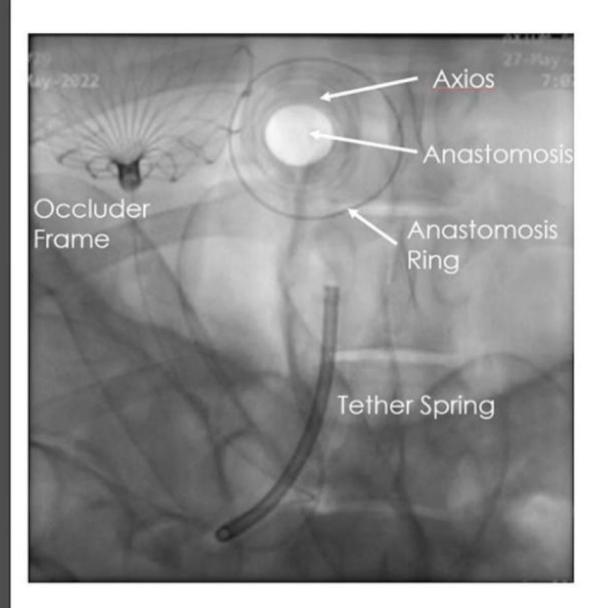
Neutral



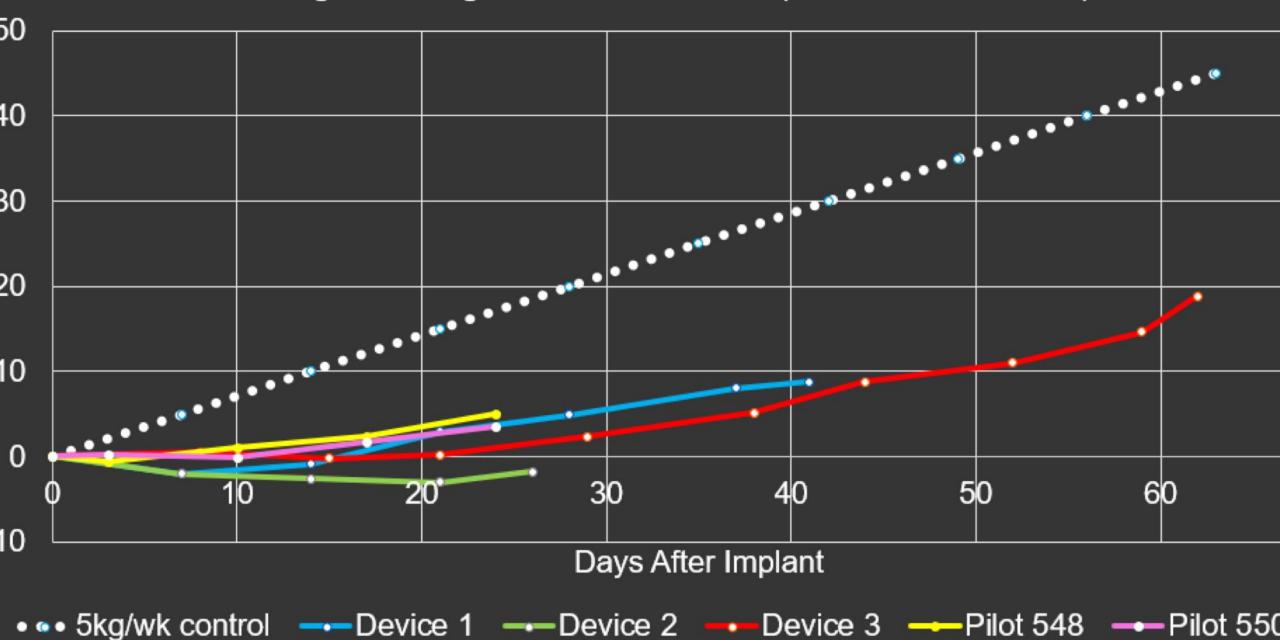






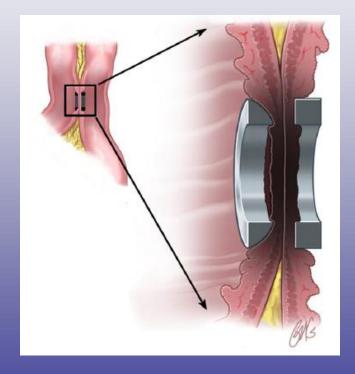


Weight Change from Start Point (Simulated Control)

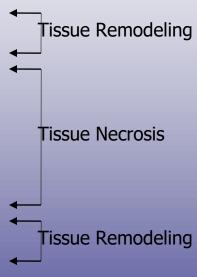


SAFER LESS INVASIVE ANASTOMOSIS BY ENDOSCOPY...OR HYBRID

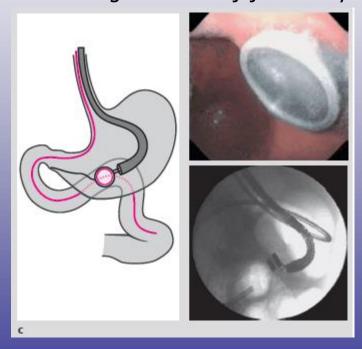
Compression Anastomosis



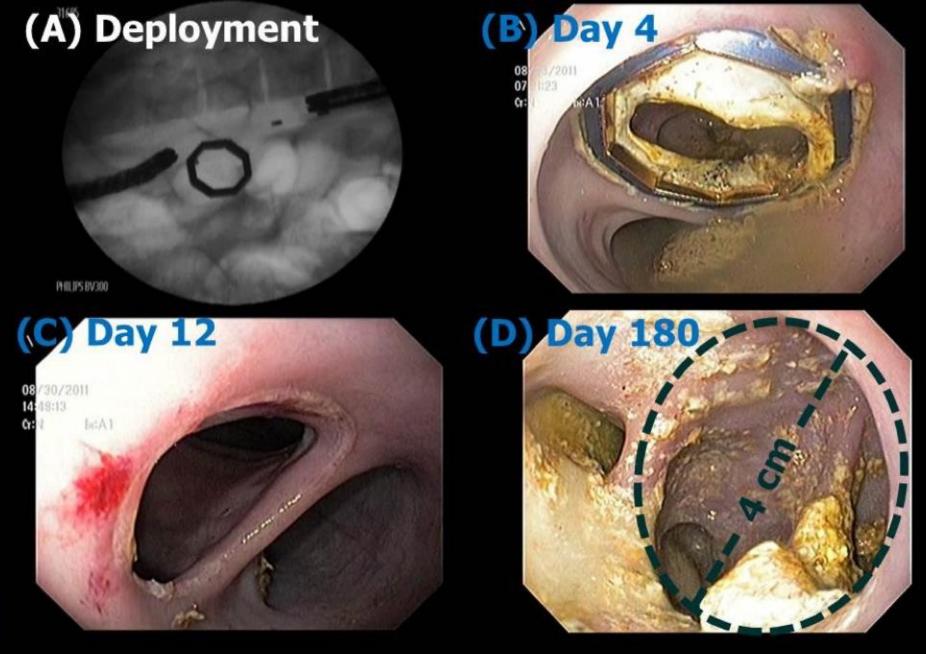
Jamshidi R, et al. J Ped Surg 2009



Human Magnetic Gastrojejunostomy

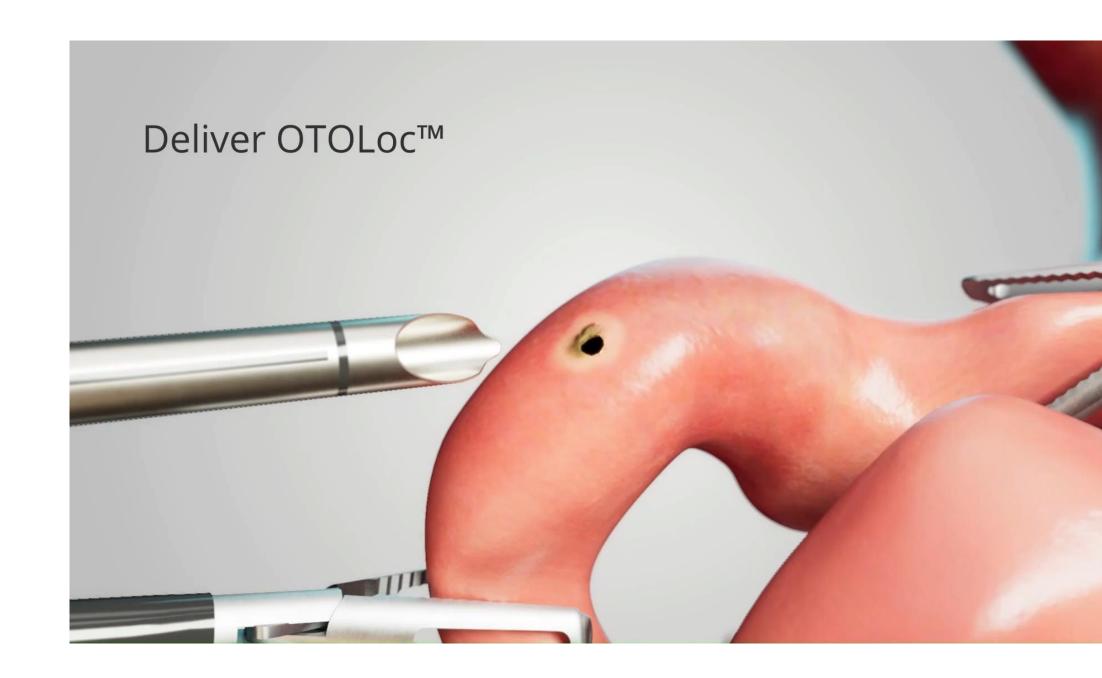


Cope, et al. Endoscopy 2009 SP4569V01

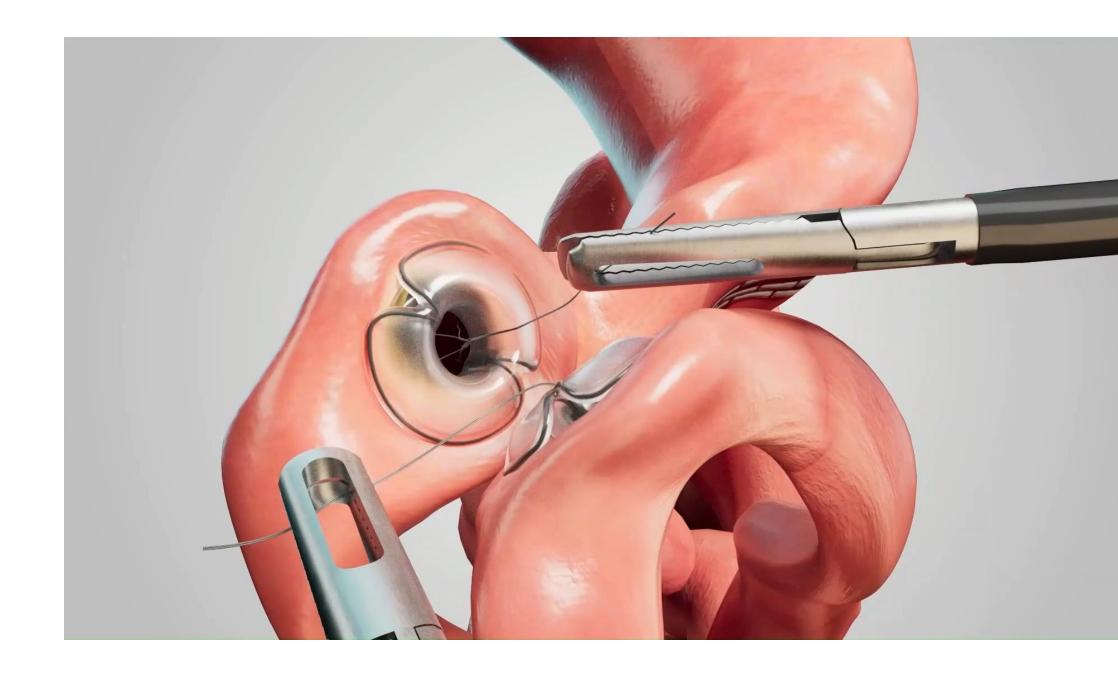


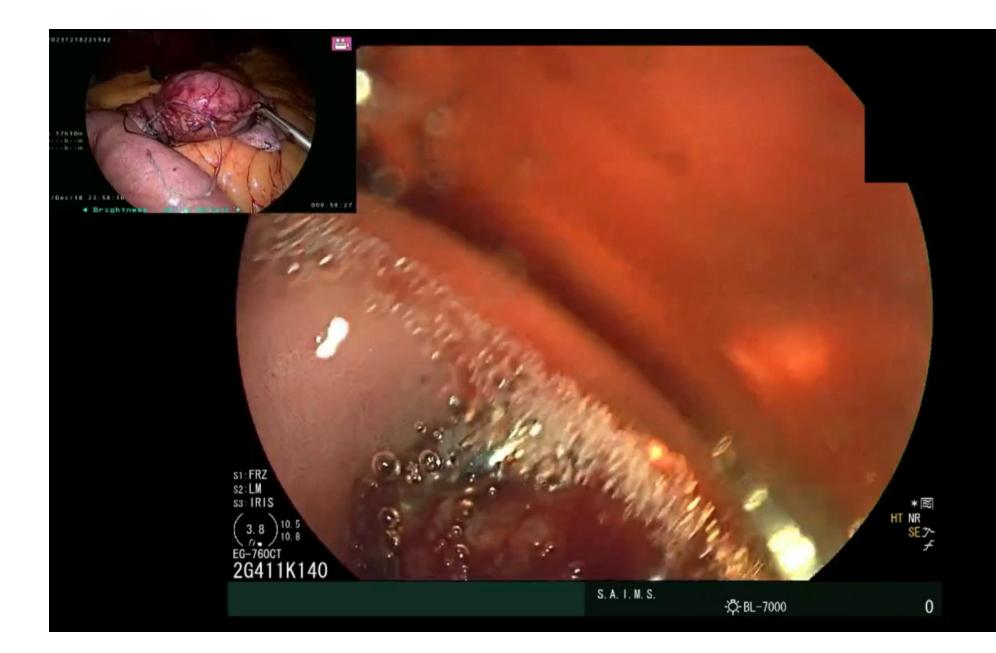


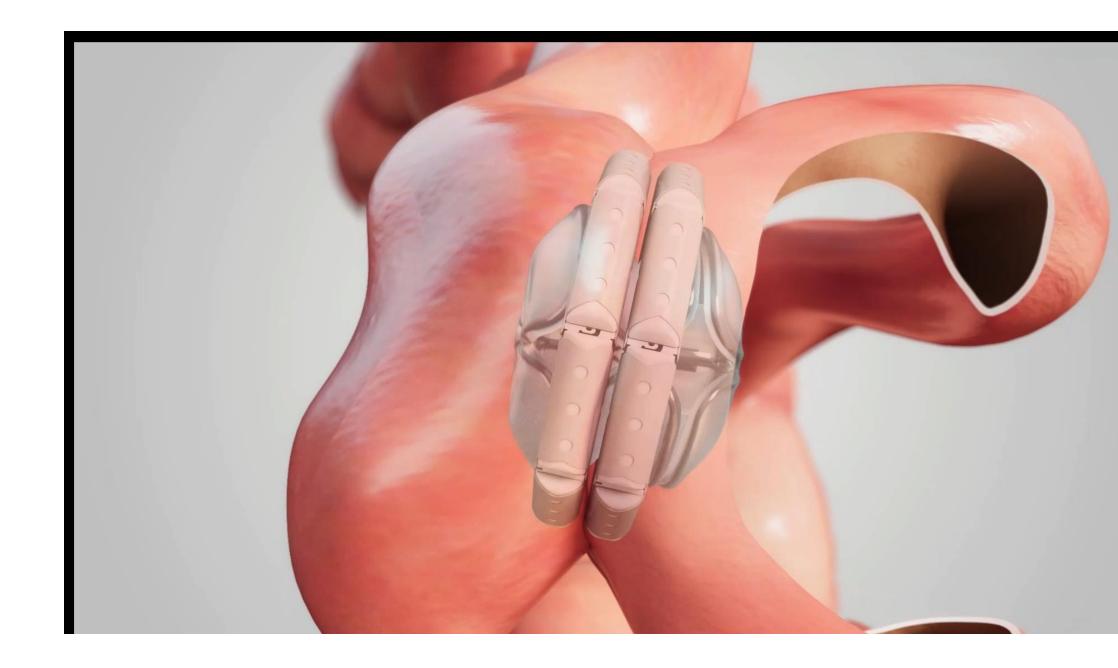




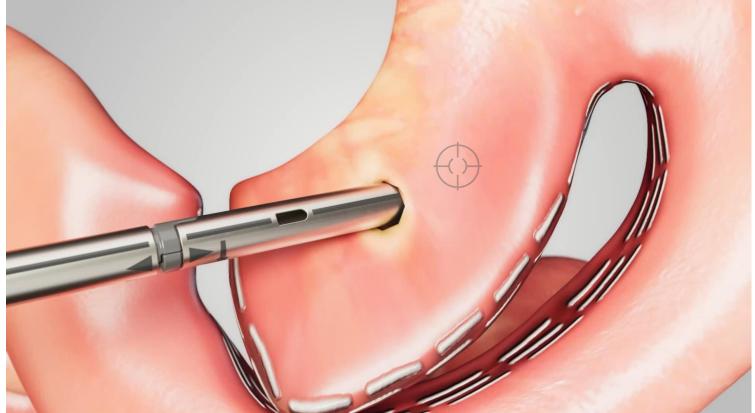




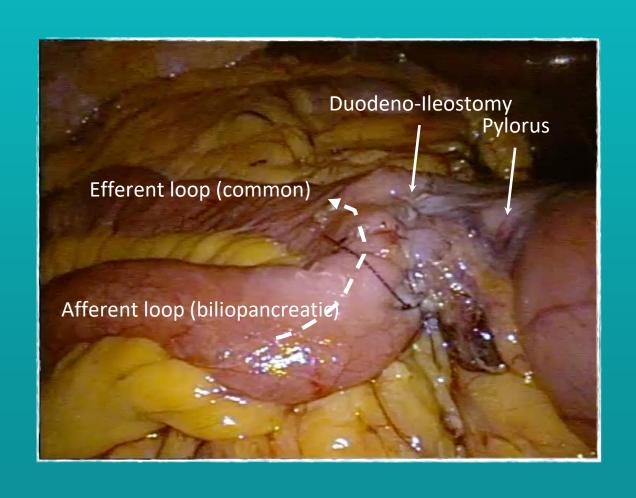


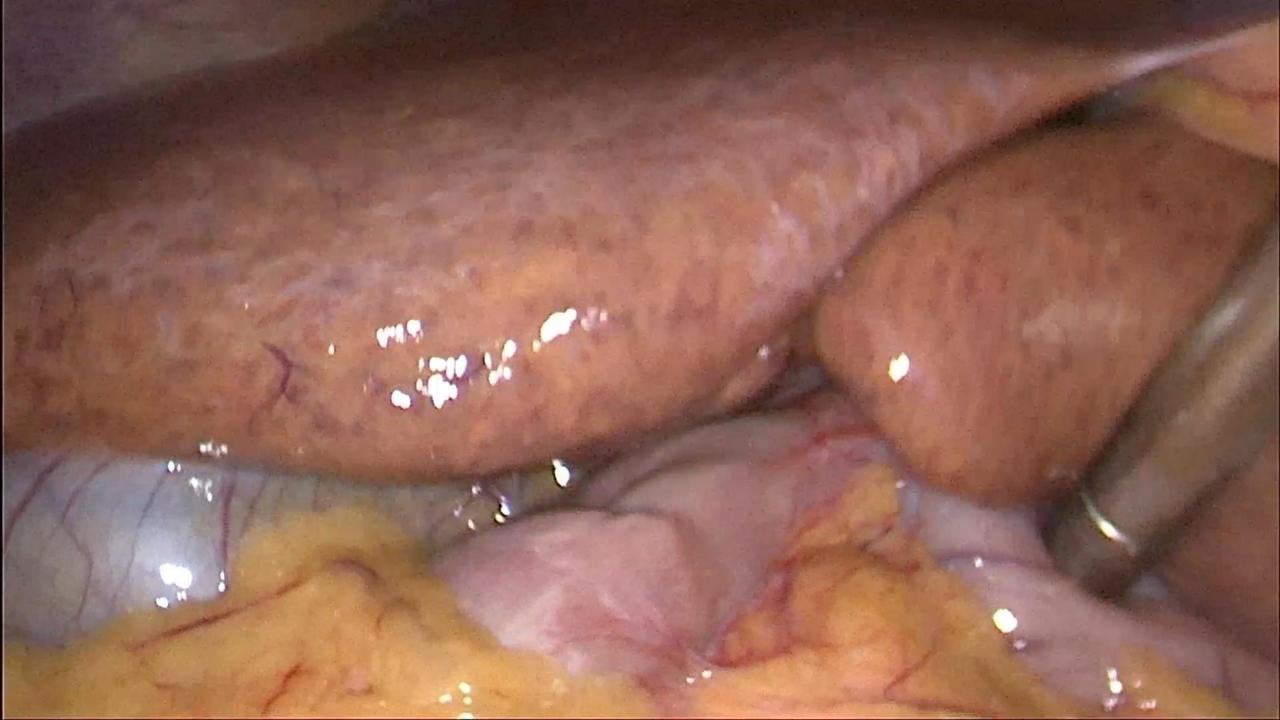






If a normal pylorus is preserved, and the anastomosis is not under tension, THERE IS NO NEED OF A ROUX-EN-Y DIVERSION







ENDO ROBOTICS

FUTURE

MULTIPLE NOT NECCESARILY STAGED INTERVENTIONS

MORE LIKE.....COMBINED THERAPIES



SP4569V01

FUTURE

LESS AGGRESSIVE APPROACH (From the surgical point of view)

MI or/and Endoscopic Procedures or HYBRID.

REVISIONS.....

ENDOROBOTICS

PLUS: REAL GOOD MEDICATIONS

WE DO THIS GAP MORE SAFELY HYBRID