Utility of One Anastomosis Gastric Bypass in Type 1 Diabetes, A Case Series

Dr Mani Niazi

Consultant Upper GI and Bariatric Surgeon, Melbourne, Australia Director of Metabolic & Bariatric Surgery Australia (MBSA)

[X] I have no potential conflict of interest to report

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Background

CASE REPORT

lan Ekelund,³ allenius,^{4,5}

weed Sattar,

läslund,⁶

Outcomes of Roux-en-Y gastric bypass surgery for severely obese patients with type I diabetes: a case series report

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Carlos E Mendez Robert | Tanenberg Walter Pories Diabetes and Obesity Institute, East Carolina University, Greenville, NC, USA

Abstract: Roux-en-Y gastric bypass surgery (RYGB) reverses type 2 diabetes (DM2) in approximately 83% of patients with morbid or severe obesity. This procedure has been performed in small numbers of severely obese patients with type 1 diabetes (DM1), but the impact on glycemic control and insulin requirement in this population has not been widely described. We report three patients with DM1 and severe obesity that underwent RYGB. Weight, glycemic control, and insulin requirements before and one year after the procedure were compared.

RYGB in patients with T1DM and obesity may reduce cardiovascular Check for RYGB in severely obese patients with T1DM leads to significant weight loss and improved insuling sensitivity, bowever achieving optimal glyremigranty of remains or ^{30m Eliasso}challenging due to persistent insulin deficiency (3)

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Improvement of C peptide zero BMI 24-34 diabetic patients after tailored one anastomosis gastric bypass (BAGUA)

M. Garciacaballero¹, J. M. Martínez-Moreno¹, J. A. Toval¹, F. Miralles², A. Mínguez¹, D. Osorio¹, J. M. Mata1 and A. Reyes-Ortiz1

¹Dept. of Surgery University Málaga. ²Dept. of Internal Medicine. Associate University Hospital Parque San Antonio. Málaga. Spain.

- Study in **BMI 24-34** patients with zero C-peptide levels (T1DM, LADA and long-term evolution T2DM) found performing RAGB significantly patients with T1DM leads Improved glycemic control eight loss and reduced insulin requirements, but CrossMark eliminated the need for spid insulin mprove glycemic control, emphasizing the no Dillemaas,² Steffen Fieuws,⁴ r Gillard,⁵ reduced long-lasting insulinesearch on the best surgical approach for this rt Van Der resolved metabolic syndrome •
 - improved complications such as retinopathy, neuropathy, nephropathy (4) ٠

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Insulin requirements and HbA1C were significantly less on follow up in 24 months. All three patients achieved optimal clinical responses with regards to weight loss



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Quality of life significantly improved (SF-36 questionnaire) in all 3 patients at 24 months post-op compared to pre-operative period

• All three patients achieved optimal clinical responses with regards to weight loss (48%, 19%

and 41% total weight loss respectively). **Table 3.** Evolution of co-morbidities: pre & post-operatively (24 months)

	Reflux		OSA		HTN		Chol		Arthritis	
	Pre-Op	Post-Op	Pre-Op	Post-Op	Pre-Op	Post-Op	Pre-Op	Post-Op	Pre-Op	Post-Op
CA	Yes, nil meds	No	Yes, CPAP	No	No	No	Yes, Lipitor 40	No	Yes, Panadol Osteo	Mild
CL	No	No	No	No	No	No	Yes	No	Yes	No
LL	No	No	No	No	No	No	Yes	No	No	No

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Conclusion

- OAGB can be safely performed on patients with T1DM with comparable (if not better) results to RYGB in terms of TWL, glycaemic control and improvement in quality of life.
- Further investigations, including prospective clinical trials and extended follow-up studies, are necessary to elucidate the full therapeutic value and optimal integration of OAGB in the management of T1DM.

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