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Manuscript NO: 62118

Manuscript Type: SYSTEMATIC REVIEWS

Which predictors may effect remission of type 2 diabetes mellitus after the metabolic surgery: An overview with current studies

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Abstract

BACKGROUND

The alarming rise in the worldwide prevalance of obesity is paralleled by an increasing burden of type 2 diabetes mellitus (T2DM). Metabolic surgery is the most effective means of obtaining substantial and durable weight loss in individual obese patients with T2DM. There is also a randomized trials that justifies the inclusion of metabolic surgery into the treatment algorithm for

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Remission of Type 2 Diabetes Mellitus after Bariatric ...

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Although **type 2 diabetes mellitus** (T2DM) has been traditionally viewed as an intractable chronic medical condition, accumulating evidence points towards the notion that a complete **remission** of T2DM is feasible following a choice of medical and/or surgical interventions. This has been paralleled by i ...

Cited by: 5

Author: Dimitrios Tsilingiris, Chrysi Koliaki, Alexa...

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Mechanisms Underlying Type 2 Diabetes Remission After ...

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Sep 19, 2019 - Metabolic surgery is the most efficient treatment for inducing diabetes remission in obese patients with T2DM. Diabetes remission results from improvements in β -cell function, **insulin sensitivity** and changes within the gut and adipose tissue.

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Author: Belén Pérez-Pevida, Belén Pérez-Pevida,...

Publish Year: 2019

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Background: Bariatric surgery has demonstrated to be effective in **remission** of **type 2 diabetes** in obese patients, but it is unclear in non-obese patients. The aim of this study is to investigate if **metabolic surgery** is effective in diabetes resolution in patients with BMI < 30 kg/m². Materials and methods: A **systematic review** was performed and the content of the PubMed, Ovid, and the ...

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Metabolic effects of an entero-omentectomy in mildly obese **type 2 diabetes mellitus** patients **after** three years.pdf Available via license: CC BY-NC 3.0 Content may be subject to copyright.

Visceral Fat Resection in Humans: Effect on Insulin ...

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Objective: The visceral fat is linked to insulin resistance, **the metabolic** syndrome, **type 2 diabetes** and an increased cardiovascular risk, but it is not clear whether it has a causative role.

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Predictive Model of Type 2 Diabetes Remission after ...

<https://www.hindawi.com/journals/ije/2020/2965175> ▾

Presurgery age, C-peptide AUC, and FPG are independent predictors of T2D remission after metabolic surgery. Among these, C-peptide AUC plays a decisive role in both short- and long-term remission prediction, and the optimal cutoff value for C-peptide AUC in predicting T2D remission was 30.93 ng/ml, with moderate predictive values.

Author: Yufang Luo, Zi Guo, Honghui He, Youbo ... **Publish Year:** 2020

Predictors of Remission of Diabetes Mellitus in Severely ...

<journals.lww.com/annalsofsurgery/Abstract/2015/> ▾

Conclusions: Bariatric surgery determines similar **diabetes remission** rates in patients with BMI of 35 kg/m² or more or BMI of less than 35 kg/m². Baseline BMI is unrelated to **diabetes remission**. The association of baseline waist circumference with glycated hemoglobin A_{1c} reduction is likely due to selection bias. Bariatric or metabolic effects of the surgical procedures appear independent, and ...

Predictors of remission of type 2 diabetes mellitus after ...

<https://www.researchgate.net/publication/45507977...>

Purpose A **remission of type 2 diabetes mellitus** (T2DM) is one of the major goals of the contemporary bariatric **surgery**. The goal of our study is to identify **predictors** of short-term postoperative ...

Gut Microbial Predictors of Type 2 Diabetes Remission ...

<https://link.springer.com/article/10.1007/s11695-020-04684-0> ▾

May 23, 2020 · Following surgery, Lachnospiraceae (p = 0.04) and Roseburia(p = 0.01) species were more abundant in those who had achieved T2D remission. Conclusions. **Specific stool bacterial taxa** may signal likelihood of T2D remission after bariatric surgery which is potentially mediated by increases in Lachnospiraceaeand Roseburia.

Cited by: 2

Author: Naomi Davies, Justin M. O'Sullivan, Lindsa...

Publish Year: 2020

Remission of Type 2 Diabetes Mellitus after Bariatric ...

<https://www.mdpi.com/1660-4601/16/17/3171/htm> ▾

In a retrospective analysis of 505 obese T2DM patients undergoing RYGB, Blackstone et al. reported a complete remission rate of 43.2% 14 months after surgery, while a longer T2DM **duration, insulin use and**