

Replies to reviewers

Name of journal: World Journal of Diabetes
Manuscript NO: 38543
Title: Reversibility of Diabetes Mellitus- narrative review of the evidence
Reviewer's code: 03475636
Reviewer's country: United States
Science editor: Li-Jun Cui
Date sent for review: 2018-03-27
Date reviewed: 2018-03-27
Review time: 8 Hours

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
[Y] Grade C: Good	[Y] Grade B: Minor language polishing	Google Search: [] No BPG Search: [] No	[Y] Major revision

REPLIES TO REVIEWERS

This is a very good and important topic. However, I have a few points/comments that would like the investigators to consider

1. Please also add the discussion on Reversibility of Diabetes Mellitus by Pancreas transplantation and Islet cell transplantation. Also, reversal of diabetic nephropathy lesions after pancreas transplant.

Thank you for your suggestion. I have added these to the study.

2. Please also suggest to add a figure demonstrating underlying mechanisms of Reversibility of Diabetes Mellitus by Bariatric Surgery.

Thank you for your suggestion. I have added a figure on this.

PEER-REVIEW REPORT

Name of journal: World Journal of Diabetes
Manuscript NO: 38543
Title: Reversibility of Diabetes Mellitus- narrative review of the evidence
Reviewer's code: 02979225
Reviewer's country: Italy
Science editor: Li-Jun Cui
Date sent for review: 2018-03-27
Date reviewed: 2018-04-05
Review time: 9 Days

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
[Y] Grade D: Fair	[Y] Grade B: Minor language polishing	Google Search: [] No BPG Search: [] No	[Y] Major revision

REPLIES TO REVIEWERS

Authors submitted a narrative review about the reversibility of diabetes mellitus. This is an important topic. However, I have some considerations about:

1. Please argue the implication of bariatric surgery and discuss the impact of bariatric surgery on inflammation, renal function, cardiovascular risk and macrovascular complication.

Thank you for your suggestion. I have added these to the study.

2. Please discuss the reversibility of beta cell after pancreas transplantation.

Thank you for your suggestion. I have added this to the study.

3. Include most recent literature about the topic: a) Perugini RA, Malkani S. Remission of type 2 diabetes mellitus following bariatric surgery: review of mechanisms and presentation of the concept of 'reversibility'. Curr Opin Endocrinol Diabetes Obes. 2011

Apr;18(2):119-28 b)le Roux CW, Heneghan HM. Bariatric Surgery for Obesity. Med Clin North Am. 2018 Jan;102(1):165-182 c)Koliaki C, Liatis S, le Roux CW, Kokkinos A. The role of bariatric surgery to treat diabetes: current challenges and perspectives. BMC Endocr Disord. 2017 Aug 10;17(1):50 d)Nguyen NT, Varela JE. Bariatric surgery for obesity and metabolic disorders: state of the art. Nat Rev Gastroenterol Hepatol. 2017 Mar;14(3):160-169 e)Roslin MS, Cripps CN. Bariatric surgery in managing diabetes mellitus. Curr Opin Gastroenterol. 2016 Nov;32(6):481-486 f)Zhang R, Borisenko O, Telegina I, Hargreaves J, Ahmed AR, Sanchez Santos R, Pring C, Funch-Jensen P, Dillemans B, Hedenbro JL. Systematic review of risk prediction models for diabetes after bariatric surgery. Br J Surg. 2016 Oct;103(11):1420-7 g)Ugale S, Agarwal D, Satwalekar V, Rao N, Ugale A. Bariatric surgery as an option for diabetes mellitus prevention and treatment in obese persons. Minerva Endocrinol. 2016 Dec;41(4):469-76

Thank you for your suggestion. I have added these to the study.

4)Include missing systematic reviews: a)Chow A, Switzer NJ, Dang J, Shi X, de Gara C, Birch DW, Gill RS, Karmali S. A Systematic Review and Meta-Analysis of Outcomes for Type 1 Diabetes after Bariatric Surgery. J Obes. 2016;2016:6170719 b)Goh YM, Toumi Z, Date RS. Surgical cure for type 2 diabetes by foregut or hindgut operations: a myth or reality? A systematic review. Surg Endosc. 2017 Jan;31(1):25-37 c)Yan Y, Sha Y, Yao G, Wang S, Kong F, Liu H, Zhang G, Zhang H, Hu C, Zhang X. Roux-en-Y Gastric Bypass Versus Medical Treatment for Type 2 Diabetes Mellitus in Obese Patients: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. Medicine (Baltimore). 2016 Apr;95(17):e3462 d)Mahawar KK, De Alwis N, Carr WR, Jennings N, Schroeder N, Small PK. Bariatric Surgery in Type 1 Diabetes Mellitus: A Systematic Review. Obes Surg. 2016 Jan;26(1):196-204

Thank you for your suggestion. I have added the missing systematic reviews in the main text and table.