

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: 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

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input type="checkbox"/> Anonymous
<input checked="" type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input checked="" type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input checked="" type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

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. 2. Please also suggest



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to add a figure demonstrating underlying mechanisms of Reversibility of Diabetes Mellitus by Bariatric Surgery.

Second round of peer review comments:

I reviewed the response to reviewer and answering with revised manuscript.

The investigators have responded and revised the manuscript as I suggested. I have no additional comments and I am satisfied with the improvement.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☒ No

BPG Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☒ No

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

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input checked="" type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
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publish	<input type="checkbox"/> Grade D: Rejection	<input checked="" type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Authors submitted a narrative review about the reversibility of diabetes mellitus. This is a 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. 2.

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



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2016 Jan;26(1):196-204

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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- ☐ No